

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

In the Matter of:

THE APPLICATION OF)
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)
AND VB BTS II, LLC D/B/A VERTICAL BRIDGE)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO. 2024-00160
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF TAYLOR)

SITE NAME: FAIRWAY

* * * * *

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

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a Vertical Bridge (“Co-Applicants”), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity (“CPCN”) from the Kentucky Public Service Commission (“PSC”) to construct, maintain, and operate a Wireless Communications Facility (“WCF”) to serve the customers of the Co-Applicants with wireless communications services.

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

1. The complete name and address of the Co-Applicants:
 - a. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2902 Ring Road, Elizabethtown, KY 42701.

- b. VB BTS II, LLC d/b/a Vertical Bridge, having an address of 750 Park of Commerce Dr, Boca Raton, FL 33487.
 2. Co-Applicants;
 - a. Cellco Partnership, d/b/a Verizon Wireless is a Delaware general partnership, and a copy of the Statement of Good Standing from Delaware and Amended Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibits A**.
 - b. VB BTS II, LLC d/b/a Vertical Bridge is a Delaware Limited Liability Company organized in the State of Delaware. We attest that VB BTS II, LLC d/b/a Vertical Bridge is in good standing with the State of Delaware and is also authorized to transact business in the Commonwealth of Kentucky. A copy of the Delaware Certificate of Formation and Certificate of Good Standing is included as part of **Exhibits A**. The Certificate of Authority is on file with the Secretary of State of Commonwealth of Kentucky and is included as part of **Exhibits A**.
 3. Co-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 Co-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.
 4. The Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Co-Applicant's FCC Application and Licenses

with Authorization to provide wireless services are attached to this Application as part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicants' services to an area currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining said need is attached as **Exhibit Q** along with Propagation Maps attached as **Exhibit R**. The WCF is an integral link in the Co-Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Co-Applicants propose to construct a WCF at 601 Salem Church Road, Campbellsville, KY 42718 (North Latitude: (37° 22' 13.45", West Longitude 85° 23' 10.76")), 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 Mark Gray and Danny & Pam Huber pursuant to a Deed recorded at Deed Book 299, Page 544 and Deed Book 249, Page 714 in the office of the County Clerk.

The Co-Applicant's state and attest the proposed WCF will consist of a 180-foot-tall tower, with an approximately 10-foot-tall lightning arrestor attached at the top, for a total height of 190-feet. The application, detailed site plan, and the Kentucky Airport Zoning Commission application indicate the proposed 180-foot tower and 10-foot lightning

arrestor, for a total height of 190 feet. The approval letter from the Federal Aviation Administration (FAA) approves the total height of the tower at 199 feet. However, the tower will be constructed at the 190-foot height approved by PSC and as indicated on the application and site plans. The FAA will be notified upon the tower stack that the height changed from 199' to 190' in a 7460-2 submittal. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicant's radio electronics equipment and appurtenant equipment. The Co-Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced, and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete along with a map showing the proposed location as well as the identified like facilities is attached as **Exhibit E**.

8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless has also been included as part of **Exhibit C**.

9. Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of **Exhibit D**.

10. Co-Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable

location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Co-Applicant's antennas on an existing structure. When suitable towers or structures exist, Co-Applicant's attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Co-Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining exploration of co-location opportunities is attached as **Exhibit Q**.

11. A copy of the Application for Federal Aviation Administration's ("FAA") and the FAA Determination of No Hazard to Air Navigation are attached as **Exhibit F**.

12. A copy of Application and an email from the Kentucky Airport Zoning Commission ("KAZC") indicating that the proposed site is not within their jurisdiction are attached as **Exhibit G**.

13. A geotechnical engineering report was performed by Power of Design, Louisville, KY, dated March 27, 2024, and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit S**.

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

15. Co-Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the agreement is attached as **Exhibit J**.

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit D** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations. The identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

17. The Construction Manager for the proposed facility is Vince Caprino and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

18. As noted on the Survey attached as part of **Exhibit C**, the surveyor has determined that the tower site and access easement are not within any flood hazard area per Flood Hazard Boundary Map, Community Panel Number 21217C0135C and 21217C0050C, both dated May 24, 2011.

19. **Exhibit C** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower, every owner of real estate within 200 feet of the access road including intersection with the public street system and all abutting property owners (according to the records maintained by the County Property Valuation Administrator). Attached as **Exhibit K** is the Notification List using the PVA records verified and updated using the Marshall County PVA on May 16, 2024. **Exhibit C** also identifies 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.

20. Co-Applicants have sent certified notices to every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and informed of his or her right to request intervention. A copy of the form of the notice sent by certified mail to each landowner on May 16, 2024, is attached as **Exhibit L**. Fourteen (14) notices were sent to surrounding property owners; to date, nine (9) notice green cards and one (1) envelope has been returned. USPS tracking indicates that one (1) notice has been delivered, one (1) notice is being returned because the forwarding order had expired, and two (2) notices are “moving through the network”. New notice has been sent to the three (3) owners, whose May 14th notices were identified “as working through the network” and “being returned for forwarding order expiration” on July 10, 2024. The PVA records were investigated to verify the ownership and mailing addresses on July 10, 2024. Co-Applicants would also note that one of the notices marked as “moving through the network” is the landowner of the subject property and has signed as such on the Real Statement Agreement attached in **Exhibit J**. This information will be updated as received.

21. Co-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 M**.

22. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit N**.

23. 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 newspaper legal notice advertisement is attached as **Exhibit O**.

24. The area of the proposed facility is in the unincorporated area of Taylor County, Kentucky. The area is largely a wooded area with large agricultural fields. There a mix of scattered residential commercial properties. The terrain in this area is hilly, rolling topography. There is no zoning or Plan Commission in Taylor County. The general area where the proposed facility is to be located is wooded. The nearest residential structure is 265 feet from the proposed tower site.

25. The process that was used by the Co-Applicant, Cellco Partnership, d/b/a 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. Co-Applicant's radio frequency engineers have conducted studies and tests 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 Co-Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Co-Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit P**.

26. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area, as set out and documented in the RF Design Engineers' Statement of Need and Propagation Maps attached as **Exhibit Q and R**. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

27. Attached hereto as **Exhibit T** please find an Affidavit of Certification for all information contained in this application.

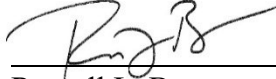
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

Russell L. Brown
Clark, Quinn, Moses, Scott & Grahn, LLP
320 North Meridian Street, Suite 1100
Indianapolis, IN 46204
Phone: (317) 637-1321
FAX: (317) 687-2344
Email: rbrown@clarkquinnlaw.com
Attorney for Cellco Partnership d/b/a Verizon Wireless

WHEREFORE, Co-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,



Russell L. Brown

Clark, Quinn, Moses, Scott & Grahn, LLP

320 North Meridian Street, Suite 1100

Indianapolis, IN 46204

Phone: (317) 637-1321 / FAX: (317) 687-2344

Email: rbrown@clarkquinnlaw.com

Attorney for Cellco Partnership d/b/a Verizon Wireless

LIST OF EXHIBITS

- A Co-Applicant Entities
- B FCC Application and License Documentation
- C Site Development Plan:
500' Vicinity Map Legal Descriptions
Flood Plain Certification Site Plan
Vertical Tower Profile
- D Tower and Foundation Design
- E Competing Utilities and Map
- F FAA Application and Determination of no Hazard
- G KAZC Application and Response
- H Geotechnical Report
- I Directions to WCF Site
- J Real Estate Agreement
- K Notification Listing
- L Property Owner Notification
- M County Judge Executive Notice
- N Posted Notices
- O Newspaper Legal Notice Advertisement
- P Radio Frequency Design Search Area
- Q RF Design Engineer Statement of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification

Delaware

The First State

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

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




Jeffrey W. Bullock, Secretary of State

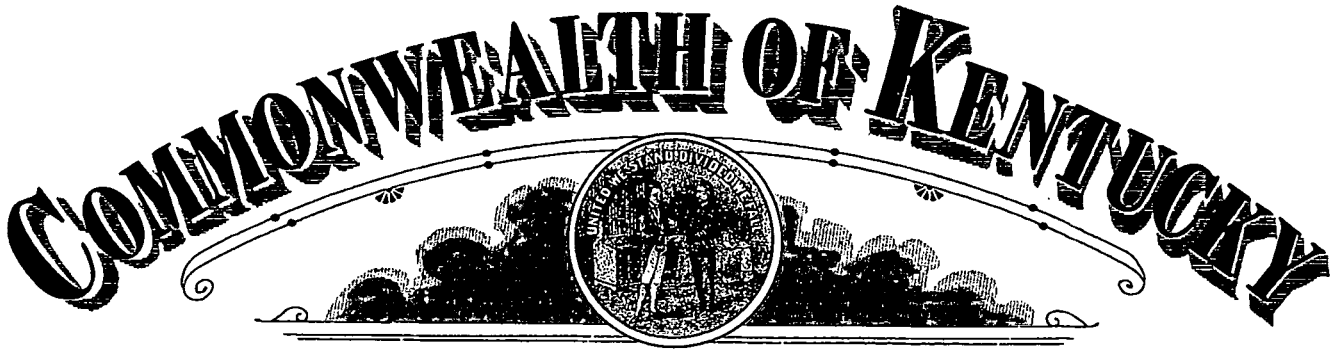
3341134 8300

SR# 20231665976

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

Authentication: 203227418

Date: 04-27-23



Michael G. Adams
Secretary of State

Certificate

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

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

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



Michael G. Adams

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

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE



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C226

Trey Grayson
Secretary of State
Received and Filed

06/21/2006 12:06:09 PM
Fee Receipt: \$20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of
Verizon Wireless

(Name under which the business will be conducted)

has been adopted by See Addendum

(Real name - KRS 365.015(1))

which is the "real name" of (YOU MUST CHECK ONE)

- | | |
|--|---|
| <input type="checkbox"/> a Domestic General Partnership | <input checked="" type="checkbox"/> a Foreign General Partnership |
| <input type="checkbox"/> a Domestic Registered Limited Liability Partnership | <input type="checkbox"/> a Foreign Registered Limited Liability Partnership |
| <input type="checkbox"/> a Domestic Limited Partnership | <input type="checkbox"/> a Foreign Limited Partnership |
| <input type="checkbox"/> a Domestic Business Trust | <input type="checkbox"/> a Foreign Business Trust |
| <input type="checkbox"/> a Domestic Corporation | <input type="checkbox"/> a Foreign Corporation |
| <input type="checkbox"/> a Domestic Limited Liability Company | <input type="checkbox"/> a Foreign Limited Liability Company |
| <input type="checkbox"/> a Joint Venture | |

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

One Verizon Way Basking Ridge NJ 07920

Street address, if any

City

State

Zip Code

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. Schapker
Signature
Jane A. Schapker-Assistant Secretary

Print or type name and title

June 15, 2006

Date

Signature

Print or type name and title

Date

Addendum

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

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

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 "VB BTS II, LLC", FILED IN THIS OFFICE ON THE EIGHTH DAY OF JUNE, A.D. 2022, AT 1:01 O`CLOCK P.M.




Jeffrey W. Bullock, Secretary of State

6844426 8100
SR# 20222658754

Authentication: 203631822
Date: 06-08-22

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

STATE OF DELAWARE
CERTIFICATE OF FORMATION
OF LIMITED LIABILITY COMPANY

The undersigned authorized person, desiring to form a limited liability company pursuant to the Limited Liability Company Act of the State of Delaware, hereby certifies as follows:

1. The name of the limited liability company is _____
VB BTS II, LLC

2. The Registered Office of the limited liability company in the State of Delaware is located at _____ 850 New Burton Road, Suite 201 _____ (street), in the City of _____ Dover _____, Zip Code _____ 19904 _____. The name of the Registered Agent at such address upon whom process against this limited liability company may be served is _____
COGENCY GLOBAL INC.

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:01 PM 06/08/2022
FILED 01:01 PM 06/08/2022
SR 20222658754 - File Number 6844426

By: _____ /s/ Daniel Marinberg
Authorized Person

Name: _____ Daniel Marinberg
Print or Type

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "VB BTS II, 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. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "VB BTS II, LLC" WAS FORMED ON THE EIGHTH DAY OF JUNE, A.D. 2022.

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




Jeffrey W. Bullock, Secretary of State

6844426 8300

SR# 20230223025

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Authentication: 202551773

Date: 01-23-23



202303080004
 FAYETTE CO, KY FEE \$46.00
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RECORDED: 03-08-2023
 SUSAN LAMB
 CLERK
 BY: HALLIE WOOSLEY
 DEPUTY CLERK



COMMONWEALTH OF KENTUCKY
 MICHAEL G. ADAMS, SECRETARY OF STATE

1265644.06

m Moore
 ADD

Michael G. Adams
 Kentucky Secretary of State
 Received and Filed:
 3/7/2023 12:33 PM
 Fee Receipt: \$90.00

BK: IB 428
 PG: 690-690

Division of Business Filings
 P.O. Box 718
 Frankfort, KY 40602
 (502) 564-3490
 www.sos.ky.gov

Certificate of Authority
 (Foreign Business Entity)

FBE

Pursuant to the provisions of KRS 14A - 030 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a:
- | | | |
|--|---|---|
| <input type="checkbox"/> profit corporation | <input checked="" type="checkbox"/> nonprofit corporation | <input type="checkbox"/> professional limited liability company |
| <input type="checkbox"/> business trust | <input type="checkbox"/> limited liability company | <input type="checkbox"/> statutory trust |
| <input type="checkbox"/> limited partnership | <input type="checkbox"/> llc cooperative association | <input type="checkbox"/> other |
| <input type="checkbox"/> non-profit llc | <input type="checkbox"/> professional service corporation | |

2. The name of the entity is VB BTS II, LLC
 (The name must be identical to the name on record with the Secretary of State.)

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

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

5. The date of organization is 6/8/2022 and the period of duration is _____
 (if left blank, duration is considered perpetual.)

6. The mailing address of the entity's principal office is
750 Park of Commerce Drive, Suite 200 Boca Raton FL 33487
 Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
828 Lane Allen Road, Suite 219 Lexington KY 40504
 Street Address (No P.O. Box Numbers) City State Zip Code

and the name of the registered agent at that office is Cogency Global Inc.

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

<u>Daniel Marinberg</u>	<u>750 Park of Commerce Dr, Ste 200</u>	<u>Boca Raton</u>	<u>FL</u>	<u>33487</u>
Name	Street or P.O. Box	City	State	Zip Code
Name	Street or P.O. Box	City	State	Zip Code
Name	Street or P.O. Box	City	State	Zip Code

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

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

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

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

13. This application will be effective upon filing.

[Signature] Adam B. Ginder-Vice President & Associate General Counsel 03/07/23
 Signature of Authorized Representative Printed Name & Title Date

I, Cogency Global Inc., consent to serve as the registered agent on behalf of the business entity.

[Signature] Eric B Hood ASSISTANT SECRETARY 3/7/23
 Signature of Registered Agent Printed Name Title Date



Antenna Structure Registration

[FCC](#) > [WTB](#) > [ASR](#) > [Online Systems](#) > ASR Search

[FCC Site Map](#)

ASR Application Search

Application A1279788

[? HELP](#)

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Application Detail

File Number	A1279788	Constructed	
Registration Number		Dismantled	
NEPA		EMI	No

Application Information

Status	Pending	Date Received	03/19/2024
Purpose	New	Entered	03/19/2024
Mode	Interactive		

Antenna Structure

Structure Type MTOWER - Monopole

Location (in NAD83 Coordinates - [Convert to NAD27](#))

Lat/Long	37-22-13.4 N 085-23-10.7 W	Address	379 SALEM CHURCH RD (JH) KY-5182
City, State	CAMBELLSVILLE , KY		
Zip	42718	County	TAYLOR
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	249.0	Overall Height Above Ground (AGL)	60.7
Overall Height Above Mean Sea Level	309.7	Overall Height Above Ground w/o Appurtenances	54.9

Proposed Marking and/or Lighting

None

FAA Notification

FAA Study	2023-ASO-28600-OE	FAA Issue Date	11/28/2023
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Owner & Contact Information

FRN	0033815929	Owner Entity Type	Limited Liability Company
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Owner

The Towers, LLC	P: (561)406-4015
750 PARK OF COMMERCE DR	F:
STE 200	E: FCC-FAA@verticalbridge.com
BOCA RATON , FL 33487	

Contact

HEFFERNAN , JULIE
750 PARK OF COMMERCE DR
STE 200
BOCA RATON , FL 33487

P: (561)406-4015
F:
E: FCC-FAA@verticalbridge.com

Environmental Compliance

Does the applicant request a Waiver of the Commission's rules for environmental notice?

No

Is another Federal Agency taking responsibility for environmental review?

No

Reason for another Federal Agency taking responsibility for environmental review

Is the applicant submitting an Environmental Assessment?

No

Does the applicant certify to No Significant Environmental Effect pursuant to Section

Basis for Certification

Name of Federal Agency

Local Notice Date

National Notice Date

09/02/2024

Certification

Authorized Party HEFFERNAN, JULIE Title LEASING PROJECT MANAGER

Receipt Date 03/19/2024

Comments

Comments

None

History

Date

03/19/2024

Event

New Application Received

Trans Log

Date	Description	Existing Value	Requested Value
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None

Pleadings

Pleading Type	Filer Name	Description	Date Entered
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None

Automated Letters

Date	Description
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None

Attachments

Type	Description	Date Entered
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None

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign KNKN795	File Number 0009262187
Radio Service CL - Cellular	
Market Numer CMA446	Channel Block B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name Kentucky 4 - Spencer
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Grant Date 09-01-2020	Effective Date 01-13-2021	Expiration Date 10-01-2030	Five Yr Build-Out Date	Print Date
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	37-50-16.0 N	085-56-28.0 W	224.3	80.8	1043049

Address: 0.3 KM SW OF US-31 & CENTRAL PARKWAY

City: RADCLIFF County: HARDIN 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)	80.900	108.700	115.600	53.800	51.900	74.500	68.800	97.200
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	80.900	108.700	115.600	53.800	51.900	74.500	68.800	97.200
Transmitting ERP (watts)	0.690	16.910	90.270	116.960	30.240	2.840	0.260	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	80.900	108.700	115.600	53.800	51.900	74.500	68.800	97.200
Transmitting ERP (watts)	1.070	0.260	0.340	2.530	33.930	116.960	90.270	14.390

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: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	37-50-37.0 N	085-27-20.0 W	231.6	88.4	1043050

Address: 2.3 KM NORTH NORTHEAST OF

City: BARDSTOWN County: NELSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.400	90.900	73.400	84.100	101.900	133.400	94.300	98.400
Transmitting ERP (watts)	104.850	19.980	1.660	0.300	0.350	1.660	27.580	112.350

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	98.400	90.900	73.400	84.100	101.900	133.400	94.300	98.400
Transmitting ERP (watts)	5.500	51.350	131.990	70.890	9.340	0.550	0.300	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)	98.400	90.900	73.400	84.100	101.900	133.400	94.300	98.400
Transmitting ERP (watts)	0.300	0.340	0.710	17.400	93.440	120.380	32.400	3.090

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	37-32-17.8 N	085-43-44.5 W	238.4	108.2	1251911

Address: 3.2 km south of

City: HODGENVILLE County: LARUE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.200	133.300	125.000	81.400	97.300	98.200	119.900	114.300
Transmitting ERP (watts)	77.720	37.630	4.790	0.280	0.240	0.240	4.270	35.940

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.200	133.300	125.000	81.400	97.300	98.200	119.900	114.300
Transmitting ERP (watts)	0.890	13.410	73.040	92.590	28.480	2.750	0.230	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)	97.200	133.300	125.000	81.400	97.300	98.200	119.900	114.300
Transmitting ERP (watts)	0.930	0.230	0.270	2.470	27.010	93.450	73.040	14.840

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	38-01-51.0 N	084-56-25.0 W	250.2	91.1	1043051

Address: 1520 GLENSBURO ROAD

City: LAWRENCEBURG County: ANDERSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.800	106.600	109.200	103.100	87.600	99.200	101.700	87.600
Transmitting ERP (watts)	6.320	39.950	96.330	90.640	29.610	4.320	0.310	1.680

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)	97.800	106.600	109.200	103.100	87.600	99.200	101.700	87.600
Transmitting ERP (watts)	1.520	0.270	1.720	14.250	71.470	128.360	93.210	17.180

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	97.800	106.600	109.200	103.100	87.600	99.200	101.700	87.600
Transmitting ERP (watts)	99.580	48.660	9.500	0.820	0.630	5.810	24.910	80.200

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	37-47-02.0 N	084-54-24.0 W	273.1	86.9	1043052

Address: 1714 CORNISHVILLE ROAD

City: HARRODSBURG County: MERCER 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)	99.900	97.100	83.300	87.100	83.500	97.400	113.000	114.500
Transmitting ERP (watts)	178.880	95.250	9.980	0.410	0.380	1.840	19.100	117.180

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.900	97.100	83.300	87.100	83.500	97.400	113.000	114.500
Transmitting ERP (watts)	3.790	39.470	153.130	170.750	54.270	3.360	0.380	0.510

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.900	97.100	83.300	87.100	83.500	97.400	113.000	114.500
Transmitting ERP (watts)	1.510	0.380	1.080	8.720	72.000	178.800	138.380	25.250

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	37-42-07.0 N	085-48-55.0 W	268.2	143.3	1043053

Address: 3.2 KM EAST OF
City: ELIZABETHTOWN County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.400	154.200	147.200	92.300	113.000	125.700	112.300	98.700
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.400	154.200	147.200	92.300	113.000	125.700	112.300	98.700
Transmitting ERP (watts)	0.690	16.910	90.270	116.960	30.240	2.840	0.260	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.400	154.200	147.200	92.300	113.000	125.700	112.300	98.700
Transmitting ERP (watts)	1.140	0.260	0.360	2.630	28.390	78.020	63.150	13.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	38-02-06.0 N	085-20-08.0 W	217.6	60.7	1043054

Address: Snyder Bluff Ridge; 0.3 KM N OF SR-44
City: Taylorsville County: SPENCER 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)	49.800	59.300	58.700	65.300	55.600	72.400	90.700	56.400
Transmitting ERP (watts)	38.070	131.240	101.290	16.150	1.200	0.300	0.390	2.840

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)	49.800	59.300	58.700	65.300	55.600	72.400	90.700	56.400
Transmitting ERP (watts)	0.340	0.540	14.700	90.110	137.670	42.790	4.300	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	49.800	59.300	58.700	65.300	55.600	72.400	90.700	56.400
Transmitting ERP (watts)	12.510	0.830	0.300	0.380	4.210	45.850	137.670	88.060

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-31-58.0 N	085-18-59.0 W	319.1	103.6	1043055

Address: 5.6 KILOMETERS SOUTHWEST OF

City: LEBANON County: MARION 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)	180.400	155.400	157.600	170.300	150.100	166.500	207.500	199.300
Transmitting ERP (watts)	33.930	116.960	90.270	14.390	1.070	0.260	0.340	2.530

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	180.400	155.400	157.600	170.300	150.100	166.500	207.500	199.300
Transmitting ERP (watts)	0.260	0.340	7.510	59.300	128.990	56.630	6.540	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	180.400	155.400	157.600	170.300	150.100	166.500	207.500	199.300
Transmitting ERP (watts)	30.240	2.840	0.260	0.330	0.690	16.910	90.270	116.960

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-52-10.0 N	085-09-29.0 W	253.0	60.6	

Address: 3.2 KM WEST OF

City: TATUM SPRINGS County: WASHINGTON 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)	79.900	60.800	72.400	64.400	69.900	83.600	82.800	92.400
Transmitting ERP (watts)	178.970	457.380	236.800	30.680	1.780	0.940	1.170	19.290

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)	79.900	60.800	72.400	64.400	69.900	83.600	82.800	92.400
Transmitting ERP (watts)	1.030	1.590	42.760	263.680	399.100	126.210	13.220	0.940

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)	79.900	60.800	72.400	64.400	69.900	83.600	82.800	92.400
Transmitting ERP (watts)	63.250	5.260	0.940	1.100	5.260	87.310	355.700	331.960

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	37-23-00.0 N	085-25-42.0 W	257.5	128.0	1043056

Address: 0.8 KM SW OF SR-210; 8.0 KM WNW OF

City: CAMPBELLSVILLE County: TAYLOR 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)	104.400	85.900	88.600	123.900	142.400	154.600	118.100	99.000
Transmitting ERP (watts)	128.990	56.630	6.540	0.320	0.260	0.340	7.510	59.300

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	104.400	85.900	88.600	123.900	142.400	154.600	118.100	99.000
Transmitting ERP (watts)	0.690	11.080	29.450	33.430	17.360	2.910	0.260	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	104.400	85.900	88.600	123.900	142.400	154.600	118.100	99.000
Transmitting ERP (watts)	1.130	0.260	0.370	2.600	30.680	93.270	73.680	13.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	37-41-32.0 N	085-13-23.0 W	250.0	39.6	

Address: 0.8 KM East of US-150/SR-55

City: SPRINGFIELD County: WASHINGTON 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)	66.400	51.400	35.800	32.500	29.900	56.600	64.400	87.000
Transmitting ERP (watts)	138.150	235.860	173.640	32.610	3.200	0.490	3.990	29.590

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)	66.400	51.400	35.800	32.500	29.900	56.600	64.400	87.000
Transmitting ERP (watts)	1.190	10.120	52.670	201.260	240.690	112.010	17.460	1.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	66.400	51.400	35.800	32.500	29.900	56.600	64.400	87.000
Transmitting ERP (watts)	64.400	7.560	0.570	2.970	12.580	90.770	239.970	223.900

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	37-19-34.2 N	085-19-52.8 W	273.7	51.5	1214265

Address: Campbellsville Downtown, 402 Smith Ridge Road

City: Campbellsville County: TAYLOR 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)	42.900	44.000	67.600	79.700	107.000	96.900	102.200	78.400
Transmitting ERP (watts)	56.310	24.160	1.150	0.340	0.340	0.340	1.680	23.720

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)	42.900	44.000	67.600	79.700	107.000	96.900	102.200	78.400
Transmitting ERP (watts)	0.340	5.680	91.680	147.320	19.330	0.760	0.340	0.340

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	42.900	44.000	67.600	79.700	107.000	96.900	102.200	78.400
Transmitting ERP (watts)	0.340	0.340	0.340	0.340	15.150	141.430	87.210	5.760

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	37-16-06.2 N	085-29-20.9 W	220.4	60.6	

Address: ON INDUSTRIAL DRIVE

City: GREENSBURG County: GREEN 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)	53.800	45.000	61.300	48.800	62.500	61.700	89.500	63.200
Transmitting ERP (watts)	38.070	131.240	101.290	16.150	1.200	0.300	0.390	2.840

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)	53.800	45.000	61.300	48.800	62.500	61.700	89.500	63.200
Transmitting ERP (watts)	0.300	0.380	8.420	66.540	144.730	63.540	7.340	0.360

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)	53.800	45.000	61.300	48.800	62.500	61.700	89.500	63.200
Transmitting ERP (watts)	33.930	3.180	0.300	0.370	0.780	18.970	101.290	131.240

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-39-32.5 N	085-37-56.7 W	253.9	77.7	1239887

Address: 2760 Cissal Hill Road

City: NEW HAVEN County: LARUE 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)	170.400	154.400	144.000	129.500	88.800	74.200	65.100	107.400
Transmitting ERP (watts)	124.610	82.100	13.580	1.250	0.280	2.730	18.240	82.650

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	170.400	154.400	144.000	129.500	88.800	74.200	65.100	107.400
Transmitting ERP (watts)	5.460	32.920	114.480	130.660	49.070	6.770	0.450	0.620

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	170.400	154.400	144.000	129.500	88.800	74.200	65.100	107.400
Transmitting ERP (watts)	2.950	0.270	1.500	8.200	53.810	130.660	112.910	27.380

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	37-48-57.0 N	085-46-49.0 W	235.0	126.5	1015251

Address: Colesburg, 3.22 KM WSW OF

City: LEBANON JUNCTION County: HARDIN 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)	146.300	139.600	153.000	176.500	89.800	60.800	96.200	125.700
Transmitting ERP (watts)	3.870	36.570	196.310	280.850	117.860	10.070	0.610	0.610

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)	146.300	139.600	153.000	176.500	89.800	60.800	96.200	125.700
Transmitting ERP (watts)	2.460	0.610	1.750	14.200	117.530	291.040	225.240	41.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-26-54.0 N	085-52-48.0 W	249.9	128.0	1060580

Address: One mile (1.6 km) NNW of

City: UPTON County: LARUE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.400	107.000	91.200	106.700	108.300	113.300	138.300	124.200
Transmitting ERP (watts)	124.610	46.300	5.190	0.280	0.290	0.370	9.670	66.920

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-26-54.0 N	085-52-48.0 W	249.9	128.0	1060580

Address: One mile (1.6 km) NNW of

City: UPTON County: LARUE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.400	107.000	91.200	106.700	108.300	113.300	138.300	124.200
Transmitting ERP (watts)	0.280	0.310	5.190	48.480	124.610	66.920	8.820	0.520

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.400	107.000	91.200	106.700	108.300	113.300	138.300	124.200
Transmitting ERP (watts)	1.320	0.260	0.260	0.260	0.660	33.930	123.180	32.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-44-48.0 N	085-53-19.3 W	275.5	89.9	1287239

Address: Elizabethtown North, near 208 Pear Orchard Road NW

City: ELIZABETHTOWN County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.100	156.700	133.600	115.300	142.700	128.700	119.200	136.400
Transmitting ERP (watts)	15.600	78.150	83.650	18.730	1.680	0.230	0.230	0.890

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.100	156.700	133.600	115.300	142.700	128.700	119.200	136.400
Transmitting ERP (watts)	0.230	0.230	3.850	37.520	101.630	51.090	7.090	0.270

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.100	156.700	133.600	115.300	142.700	128.700	119.200	136.400
Transmitting ERP (watts)	35.830	4.120	0.230	0.230	0.230	7.060	53.010	99.780

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-52-58.8 N	085-56-33.1 W	213.4	35.1	

Address: Wilson Road

City: Fort Knox County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.200	65.500	70.000	29.900	29.900	29.900	33.200	65.800
Transmitting ERP (watts)	38.070	131.240	101.290	16.150	1.200	0.300	0.390	2.840

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-52-58.8 N	085-56-33.1 W	213.4	35.1	

Address: Wilson Road

City: Fort Knox County: HARDIN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.200	65.500	70.000	29.900	29.900	29.900	33.200	65.800
Transmitting ERP (watts)	0.300	0.380	1.830	30.180	122.250	111.260	20.840	1.700

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.200	65.500	70.000	29.900	29.900	29.900	33.200	65.800
Transmitting ERP (watts)	30.680	3.270	0.300	0.400	0.820	17.990	82.670	104.650

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-36-04.0 N	085-52-00.0 W	234.4	65.5	1057215

Address: GLENDALE CELL SITE, 6667 SOUTH DIXIE HWY.

City: ELIZABETHTOWN County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.500	34.700	50.500	66.200	54.100	71.900	71.800	64.000
Transmitting ERP (watts)	105.650	71.160	11.410	0.820	0.330	0.330	3.120	35.390

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.500	34.700	50.500	66.200	54.100	71.900	71.800	64.000
Transmitting ERP (watts)	0.330	0.420	4.720	51.450	154.470	98.800	14.040	0.930

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	52.500	34.700	50.500	66.200	54.100	71.900	71.800	64.000
Transmitting ERP (watts)	10.870	0.630	0.330	0.410	6.840	63.420	162.090	83.920

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-39-26.3 N	085-56-34.7 W	220.1	72.5	1247548

Address: 1036 East Main Street

City: Cecilia County: HARDIN 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)	36.100	44.200	42.900	64.500	71.800	69.500	54.300	44.500
Transmitting ERP (watts)	57.760	95.330	41.480	5.760	0.300	0.330	0.460	10.830

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-39-26.3 N	085-56-34.7 W	220.1	72.5	1247548

Address: 1036 East Main Street

City: Cecilia County: HARDIN 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)	36.100	44.200	42.900	64.500	71.800	69.500	54.300	44.500
Transmitting ERP (watts)	0.370	0.570	14.180	74.450	109.410	37.870	4.380	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	36.100	44.200	42.900	64.500	71.800	69.500	54.300	44.500
Transmitting ERP (watts)	16.150	1.200	0.300	0.390	2.840	38.070	131.240	101.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	37-58-13.6 N	085-29-07.4 W	207.9	129.5	1204265

Address: 11920 Louisville Road

City: Cox Creek County: NELSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.900	82.300	58.800	54.100	76.600	70.500	98.000	89.700
Transmitting ERP (watts)	23.200	80.450	62.450	10.360	0.790	0.200	0.230	1.720

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.900	82.300	58.800	54.100	76.600	70.500	98.000	89.700
Transmitting ERP (watts)	0.310	0.960	19.520	91.310	100.120	22.420	2.040	0.260

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-27-43.2 N	085-34-27.8 W	286.5	77.7	1227279

Address: Taylor/Larue, City of

City: Gotton County: TAYLOR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	129.400	81.500	115.300	138.400	121.200	100.500	107.600
Transmitting ERP (watts)	56.530	144.460	74.790	9.690	0.560	0.300	0.370	6.090

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	129.400	81.500	115.300	138.400	121.200	100.500	107.600
Transmitting ERP (watts)	0.340	0.540	14.700	90.110	137.670	42.790	4.300	0.300

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-27-43.2 N	085-34-27.8 W	286.5	77.7	1227279

Address: Taylor/Larue, City of

City: Gotton County: TAYLOR State: KY Construction Deadline:

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	129.400	81.500	115.300	138.400	121.200	100.500	107.600
Transmitting ERP (watts)	20.840	1.700	0.300	0.380	1.830	30.180	122.250	111.260

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-45-36.7 N	085-59-28.9 W	242.3	77.7	1228925

Address: 1.6 km NW of

City: Rineyville County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.500	82.000	56.400	72.200	75.600	74.900	59.700	68.100
Transmitting ERP (watts)	144.730	63.540	7.340	0.360	0.300	0.380	8.420	66.540

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.500	82.000	56.400	72.200	75.600	74.900	59.700	68.100
Transmitting ERP (watts)	0.430	11.130	78.320	144.460	52.750	5.690	0.300	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.500	82.000	56.400	72.200	75.600	74.900	59.700	68.100
Transmitting ERP (watts)	1.200	0.300	0.390	2.840	38.070	131.240	101.290	16.150

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-59-45.9 N	085-57-01.3 W	128.0	38.0	

Address: In the City of

City: West Point County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	29.900	29.900	29.900
Transmitting ERP (watts)	1.570	1.370	8.820	47.380	124.620	143.080	68.480	15.690

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	37-45-48.5 N	085-36-59.1 W	154.2	129.5	1204257

Address: Hardin East cell, 6670 Old Bellwood Road

City: Bardstown County: NELSON 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)	34.600	35.200	61.100	39.000	51.400	29.900	62.200	76.800
Transmitting ERP (watts)	112.340	35.530	3.720	0.260	0.290	0.450	12.040	74.220

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)	34.600	35.200	61.100	39.000	51.400	29.900	62.200	76.800
Transmitting ERP (watts)	4.920	55.230	162.990	105.240	15.570	1.050	0.380	0.440

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	34.600	35.200	61.100	39.000	51.400	29.900	62.200	76.800
Transmitting ERP (watts)	0.350	0.350	0.350	0.350	15.750	146.950	90.610	5.990

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	37-14-59.0 N	085-21-27.8 W	222.8	30.5	1241661

Address: Green River Dam, Southeast of intersection of KY Hwy 55 and Tebbs Bend Road

City: Campbellsville County: TAYLOR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	37.100	50.200	29.900
Transmitting ERP (watts)	182.210	79.990	9.240	0.460	0.370	0.480	10.610	83.760

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	37.100	50.200	29.900
Transmitting ERP (watts)	0.460	7.670	71.160	181.870	94.160	12.200	0.710	0.370

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	29.900	37.100	50.200	29.900
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	37-56-34.5 N	084-57-41.8 W	279.2	99.1	1219406

Address: Anderson South, Wharton Farm Road

City: Willisburg County: ANDERSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.100	131.600	132.200	109.900	108.100	124.200	120.600	124.900
Transmitting ERP (watts)	25.020	98.760	122.250	55.980	8.450	0.600	0.430	4.550

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)	124.100	131.600	132.200	109.900	108.100	124.200	120.600	124.900
Transmitting ERP (watts)	1.160	0.460	5.100	28.820	122.200	165.980	91.360	14.410

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.100	131.600	132.200	109.900	108.100	124.200	120.600	124.900
Transmitting ERP (watts)	112.680	31.600	3.530	0.250	1.200	5.330	43.730	119.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-52-43.2 N	085-16-10.5 W	244.4	97.5	1218674

Address: Nelson East, Bluegrass Parkway

City: Bloomfield County: NELSON 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)	103.900	93.300	95.300	84.000	105.200	83.100	95.100	108.900
Transmitting ERP (watts)	177.070	26.860	1.040	0.400	0.400	0.400	2.910	88.540

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.900	93.300	95.300	84.000	105.200	83.100	95.100	108.900
Transmitting ERP (watts)	1.050	53.470	192.820	50.140	1.980	0.400	0.400	0.400

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.900	93.300	95.300	84.000	105.200	83.100	95.100	108.900
Transmitting ERP (watts)	0.580	0.400	0.400	0.400	7.690	130.960	146.270	13.900

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
29	37-33-17.6 N	086-04-47.0 W	255.7	78.6	1224566

Address: Eastview, 1051 Rock Creek Road

City: Summit County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.500	109.000	115.900	115.100	112.600	103.200	118.000	108.100
Transmitting ERP (watts)	137.170	29.500	2.640	0.330	0.420	1.320	26.840	127.750

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.500	109.000	115.900	115.100	112.600	103.200	118.000	108.100
Transmitting ERP (watts)	9.450	74.650	162.390	71.290	8.230	0.410	0.330	0.420

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.500	109.000	115.900	115.100	112.600	103.200	118.000	108.100
Transmitting ERP (watts)	1.350	0.330	0.430	3.180	42.710	147.250	113.650	18.120

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
30	37-40-47.5 N	086-03-13.7 W	258.2	77.7	1256862

Address: Howe Valley, 6509 Hardinsburg Road

City: Cecilia County: HARDIN 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)	92.500	89.500	105.300	124.100	106.700	108.900	118.300	96.600
Transmitting ERP (watts)	33.930	116.960	90.270	14.390	1.070	0.260	0.340	2.530

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.500	89.500	105.300	124.100	106.700	108.900	118.300	96.600
Transmitting ERP (watts)	0.260	0.340	7.510	59.300	128.990	56.630	6.540	0.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.500	89.500	105.300	124.100	106.700	108.900	118.300	96.600
Transmitting ERP (watts)	30.240	2.840	0.260	0.330	0.690	16.910	90.270	116.960

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
31	37-46-52.1 N	085-29-41.6 W	186.8	77.7	1222666

Address: Nelson West, on Highway 31 East

City: Bardstown County: NELSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.400	29.900	37.400	48.500	55.000	84.100	76.400	37.400
Transmitting ERP (watts)	148.100	66.150	7.950	0.410	0.330	0.390	8.520	69.270

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.400	29.900	37.400	48.500	55.000	84.100	76.400	37.400
Transmitting ERP (watts)	2.890	38.950	135.070	104.850	17.400	1.320	0.330	0.390

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	45.400	29.900	37.400	48.500	55.000	84.100	76.400	37.400
Transmitting ERP (watts)	2.570	0.330	0.390	1.200	24.580	114.960	126.050	28.220

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-45-22.0 N	085-19-04.1 W	213.4	57.9	1240441

Address: Bardstown SE cell, 7513 U.S. Route 150, 2.1 km east of

City: Fredericktown County: WASHINGTON 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)	43.100	47.100	33.500	29.900	29.900	55.400	79.700	44.000
Transmitting ERP (watts)	221.490	252.790	94.940	13.100	0.880	1.190	10.560	63.690

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)	43.100	47.100	33.500	29.900	29.900	55.400	79.700	44.000
Transmitting ERP (watts)	7.630	43.130	182.830	248.350	136.700	21.560	1.730	0.680

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)	43.100	47.100	33.500	29.900	29.900	55.400	79.700	44.000
Transmitting ERP (watts)	41.880	4.140	0.520	2.890	22.300	119.580	253.430	200.980

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	37-34-40.5 N	085-08-12.5 W	294.1	93.0	1261393

Address: Penick, 6715 Danville Highway (KY11776-A)

City: Lebanon County: MARION State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.100	95.800	76.100	74.200	106.700	133.900	113.300	113.200
Transmitting ERP (watts)	17.310	81.910	91.780	21.270	1.870	0.260	0.280	0.860

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.100	95.800	76.100	74.200	106.700	133.900	113.300	113.200
Transmitting ERP (watts)	0.300	0.480	13.100	80.300	122.700	38.140	3.840	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	120.100	95.800	76.100	74.200	106.700	133.900	113.300	113.200
Transmitting ERP (watts)	6.540	0.320	0.260	0.340	7.510	59.300	128.990	56.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	37-15-19.8 N	085-35-11.9 W	216.1	77.7	1266730

Address: Webbs, 5986 Highway 1464

City: Greensburg County: GREEN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.800	92.800	83.300	89.500	54.500	70.300	85.800	89.900
Transmitting ERP (watts)	45.770	117.640	63.170	8.330	0.490	0.260	0.300	4.900

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.800	92.800	83.300	89.500	54.500	70.300	85.800	89.900
Transmitting ERP (watts)	0.440	0.920	22.500	120.830	155.660	41.900	4.000	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	74.800	92.800	83.300	89.500	54.500	70.300	85.800	89.900
Transmitting ERP (watts)	2.760	0.260	0.300	0.630	15.510	83.280	107.290	28.880

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	37-42-18.4 N	086-12-20.7 W	255.7	77.7	1264212

Address: Vertrees, 15921 Hardinsburg Road

City: Cecilia County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.300	69.700	113.300	109.300	123.000	96.700	119.800	106.400
Transmitting ERP (watts)	19.520	91.310	100.120	22.420	2.040	0.260	0.310	0.960

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.300	69.700	113.300	109.300	123.000	96.700	119.800	106.400
Transmitting ERP (watts)	0.260	0.300	3.390	38.070	112.340	72.530	10.730	0.730

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	101.300	69.700	113.300	109.300	123.000	96.700	119.800	106.400
Transmitting ERP (watts)	28.880	2.760	0.260	0.300	0.630	15.510	83.280	107.290

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	37-53-29.0 N	085-31-56.0 W	220.7	78.3	1062550

Address: Bardstown NW, 720 South Saint Gregory Road

City: Samuels County: NELSON 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)	104.400	71.100	57.700	59.000	95.100	74.500	82.800	83.900
Transmitting ERP (watts)	51.350	131.990	70.890	9.340	0.550	0.300	0.330	5.500

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	104.400	71.100	57.700	59.000	95.100	74.500	82.800	83.900
Transmitting ERP (watts)	0.320	0.500	13.510	83.280	126.050	39.860	4.170	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	104.400	71.100	57.700	59.000	95.100	74.500	82.800	83.900
Transmitting ERP (watts)	13.350	1.250	0.300	0.300	1.040	15.960	64.650	62.090

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	37-25-20.1 N	085-16-59.5 W	333.5	60.6	

Address: Spurlington, 11.25 km NE of

City: Campbellsville County: TAYLOR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.900	158.600	119.800	124.800	156.800	140.700	131.400	136.200
Transmitting ERP (watts)	139.820	92.120	15.240	1.400	0.310	3.060	20.470	92.740

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	152.900	158.600	119.800	124.800	156.800	140.700	131.400	136.200
Transmitting ERP (watts)	6.130	36.940	128.460	146.610	55.060	7.600	0.510	0.690

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)	152.900	158.600	119.800	124.800	156.800	140.700	131.400	136.200
Transmitting ERP (watts)	1.130	0.300	1.540	3.910	19.840	66.020	52.400	10.470

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
38	37-53-15.8 N	085-58-41.2 W	213.4	42.7	

Address: Fort Knox II, 120 Fisher Court

City: Fort Knox County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.300	58.300	82.500	33.300	37.900	29.900	42.100	69.300
Transmitting ERP (watts)	112.350	104.850	19.980	1.660	0.300	0.350	1.660	27.580

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.300	58.300	82.500	33.300	37.900	29.900	42.100	69.300
Transmitting ERP (watts)	0.330	5.500	51.350	131.990	70.890	9.340	0.550	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.300	58.300	82.500	33.300	37.900	29.900	42.100	69.300
Transmitting ERP (watts)	4.170	0.300	0.320	0.500	13.510	83.280	126.050	39.860

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	37-48-30.9 N	085-59-37.8 W	217.3	92.6	1230567

Address: Otter Road

City: Vine Grove County: HARDIN 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)	76.300	83.600	60.600	40.000	46.200	65.400	50.900	60.600
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.300	83.600	60.600	40.000	46.200	65.400	50.900	60.600
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.300	83.600	60.600	40.000	46.200	65.400	50.900	60.600
Transmitting ERP (watts)	1.050	0.260	0.310	2.290	30.940	107.290	83.280	13.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	37-26-38.8 N	085-45-12.8 W	264.3	77.7	1254845

Address: 1.3 km northwest of

City: Magnolia County: LARUE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.800	87.900	76.000	113.300	120.400	94.200	96.100	101.400
Transmitting ERP (watts)	116.290	103.170	20.820	1.540	0.380	0.270	3.320	29.820

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.800	87.900	76.000	113.300	120.400	94.200	96.100	101.400
Transmitting ERP (watts)	0.330	5.430	50.380	128.750	66.660	8.640	0.500	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	108.800	87.900	76.000	113.300	120.400	94.200	96.100	101.400
Transmitting ERP (watts)	3.840	0.260	0.300	0.480	13.100	80.300	122.700	38.140

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	37-11-24.9 N	085-26-58.6 W	258.8	77.7	1258491

Address: Gresham, 501 Bramlett Road

City: Greensburg County: GREEN 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)	116.300	118.700	101.700	114.600	112.000	92.300	110.500	133.600
Transmitting ERP (watts)	3.000	26.760	106.800	96.730	19.980	1.630	0.340	0.280

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	116.300	118.700	101.700	114.600	112.000	92.300	110.500	133.600
Transmitting ERP (watts)	0.850	0.400	0.640	9.170	71.480	176.260	95.530	13.590

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	116.300	118.700	101.700	114.600	112.000	92.300	110.500	133.600
Transmitting ERP (watts)	118.730	39.040	3.990	0.320	0.280	1.330	13.290	78.990

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
42	37-36-21.0 N	086-03-25.0 W	259.9	91.1	1009674

Address: Stephensburg, 2.0 km North of

City: Eastview County: HARDIN 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)	103.500	114.400	126.400	131.700	147.600	118.400	112.300	114.700
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.500	114.400	126.400	131.700	147.600	118.400	112.300	114.700
Transmitting ERP (watts)	0.630	15.510	83.280	107.290	28.880	2.760	0.260	0.300

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.500	114.400	126.400	131.700	147.600	118.400	112.300	114.700
Transmitting ERP (watts)	2.040	0.260	0.310	0.960	19.520	91.310	100.120	22.420

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
43	37-48-17.5 N	085-51-07.8 W	256.0	83.8	1205260

Address: Prather, 7891 Shepardsville Road

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.800	166.100	158.500	104.800	75.900	78.100	103.200	115.400
Transmitting ERP (watts)	11.750	66.270	98.050	32.810	3.770	0.260	0.320	0.470

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.800	166.100	158.500	104.800	75.900	78.100	103.200	115.400
Transmitting ERP (watts)	0.240	0.240	0.270	16.050	108.530	50.760	2.790	0.240

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.800	166.100	158.500	104.800	75.900	78.100	103.200	115.400
Transmitting ERP (watts)	6.320	0.360	0.260	0.340	6.770	32.190	47.920	30.790

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
44	37-25-41.0 N	085-39-31.8 W	292.9	77.7	1262106

Address: Green North, 788 Sand Ridge Road

City: Magnolia County: LARUE 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)	96.800	115.600	118.800	142.400	144.600	148.100	117.600	121.300
Transmitting ERP (watts)	117.640	52.550	6.320	0.320	0.260	0.310	6.770	55.020

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	96.800	115.600	118.800	142.400	144.600	148.100	117.600	121.300
Transmitting ERP (watts)	0.700	13.920	51.730	61.900	22.820	2.940	0.260	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	96.800	115.600	118.800	142.400	144.600	148.100	117.600	121.300
Transmitting ERP (watts)	1.160	0.260	0.340	2.450	24.450	61.900	51.730	12.400

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File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	37-45-49.2 N	085-47-28.0 W	212.1	83.8	1211565

Address: I-65 Rock Cut, 781 Casey Lane

City: Elizabethtown County: HARDIN 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)	90.600	106.500	109.000	29.900	29.900	33.000	29.900	51.700
Transmitting ERP (watts)	79.530	148.100	55.020	6.170	0.330	0.350	0.440	11.500

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	90.600	106.500	109.000	29.900	29.900	33.000	29.900	51.700
Transmitting ERP (watts)	0.480	0.550	6.200	69.530	205.190	132.480	19.600	1.320

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	90.600	106.500	109.000	29.900	29.900	33.000	29.900	51.700
Transmitting ERP (watts)	10.850	0.420	0.310	0.310	0.310	5.700	98.990	111.060

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
46	37-31-11.6 N	085-52-28.2 W	243.8	37.0	

Address: Sonora DT-WT, Water Tank, 2.0 km southeast of

City: Sonora County: LARUE 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)	55.900	52.800	41.400	29.900	40.900	56.000	65.000	62.700
Transmitting ERP (watts)	148.100	66.150	7.950	0.410	0.330	0.390	8.520	69.270

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	55.900	52.800	41.400	29.900	40.900	56.000	65.000	62.700
Transmitting ERP (watts)	0.800	19.520	104.850	135.070	36.350	3.470	0.330	0.380

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	55.900	52.800	41.400	29.900	40.900	56.000	65.000	62.700
Transmitting ERP (watts)	1.320	0.200	0.390	2.890	38.950	135.070	104.850	17.400

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	37-29-39.8 N	085-11-34.3 W	223.7	77.7	1276116

Address: Bradfordsville, 725 Settles Road

City: Lebanon County: MARION State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	33.000	29.900	86.600	58.500
Transmitting ERP (watts)	18.240	82.650	124.610	82.100	13.580	1.250	0.280	2.730

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	33.000	29.900	86.600	58.500
Transmitting ERP (watts)	0.450	0.620	5.460	32.920	114.480	130.660	49.070	6.770

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	29.900	29.900	29.900	33.000	29.900	86.600	58.500
Transmitting ERP (watts)	112.910	27.380	2.950	0.270	1.500	8.200	53.810	130.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
48	37-19-48.0 N	085-32-44.0 W	246.9	48.5	

Address: Summersville WT, Water Tank in the Town of

City: Summersville County: GREEN 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)	41.400	67.100	64.900	91.900	88.100	93.500	88.200	56.700
Transmitting ERP (watts)	92.740	139.820	92.120	15.240	1.400	0.310	3.060	20.470

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	41.400	67.100	64.900	91.900	88.100	93.500	88.200	56.700
Transmitting ERP (watts)	1.010	6.140	44.740	137.360	142.220	45.580	5.530	0.370

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	41.400	67.100	64.900	91.900	88.100	93.500	88.200	56.700
Transmitting ERP (watts)	37.900	4.240	0.300	1.440	6.390	52.450	143.540	135.170

Licensee Name: CELLCO PARTNERSHIP

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	37-48-34.0 N	085-34-51.6 W	177.7	85.3	1269851

Address: Bardstown West, 6656 Boston Road

City: Bardstown County: NELSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	54.900	68.000	76.100	91.500	91.500	107.900	77.100
Transmitting ERP (watts)	9.020	56.820	102.510	39.980	4.940	0.260	0.300	0.370

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	54.900	68.000	76.100	91.500	91.500	107.900	77.100
Transmitting ERP (watts)	0.240	0.550	1.400	11.850	11.560	11.830	2.780	0.960

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.100	54.900	68.000	76.100	91.500	91.500	107.900	77.100
Transmitting ERP (watts)	3.720	0.260	0.290	0.450	12.040	74.220	112.340	35.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-38-16.1 N	085-49-41.4 W	254.5	80.8	1205593

Address: Lincoln Parkway, Site LV0115 @ 342 Fultz Road

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.500	105.200	68.900	96.400	103.300	107.000	113.200	94.800
Transmitting ERP (watts)	41.260	113.640	22.670	0.880	0.240	0.240	0.240	1.010

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.500	105.200	68.900	96.400	103.300	107.000	113.200	94.800
Transmitting ERP (watts)	0.240	0.270	16.050	108.530	50.760	2.790	0.240	0.240

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.500	105.200	68.900	96.400	103.300	107.000	113.200	94.800
Transmitting ERP (watts)	16.430	0.680	0.240	0.240	0.240	0.920	31.300	80.450

Licensee Name: CELLCO PARTNERSHIP

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	37-35-28.7 N	085-14-56.6 W	262.4	60.7	1267688

Address: Lebanon Downtown, 645 Henrickson Drive (9LV1141G)

City: Lebanon County: MARION 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)	85.500	58.600	49.200	58.400	73.300	87.100	102.000	96.000
Transmitting ERP (watts)	16.490	101.100	154.470	48.010	4.830	0.330	0.380	0.600

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)	85.500	58.600	49.200	58.400	73.300	87.100	102.000	96.000
Transmitting ERP (watts)	0.330	0.430	2.050	33.870	137.170	124.840	23.380	1.910

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.500	58.600	49.200	58.400	73.300	87.100	102.000	96.000
Transmitting ERP (watts)	83.920	10.870	0.630	0.330	0.410	6.840	63.420	162.090

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	37-35-51.0 N	085-40-04.0 W	271.6	91.1	1063508

Address: Lincoln Home, in the city of

City: WHITE CITY County: LARUE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.400	169.100	139.400	136.700	88.200	113.600	120.600	89.700
Transmitting ERP (watts)	20.920	81.390	73.540	16.350	1.210	0.260	0.310	1.880

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.400	169.100	139.400	136.700	88.200	113.600	120.600	89.700
Transmitting ERP (watts)	0.270	0.730	8.180	47.900	88.020	46.810	7.270	0.520

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	144.400	169.100	139.400	136.700	88.200	113.600	120.600	89.700
Transmitting ERP (watts)	35.530	3.720	0.260	0.290	0.450	12.040	74.220	112.340

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	37-20-53.0 N	085-20-42.0 W	267.0	59.1	1242907

Address: Campbellsville III, 701 Melrose Drive (KY13176-A)

City: Campbellsville County: TAYLOR 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)	41.100	29.900	56.700	60.100	72.800	97.700	92.400	57.700
Transmitting ERP (watts)	22.480	38.430	28.830	7.290	0.670	0.300	0.340	4.090

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)	41.100	29.900	56.700	60.100	72.800	97.700	92.400	57.700
Transmitting ERP (watts)	0.520	0.340	0.690	10.410	69.430	139.820	62.740	8.250

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)	41.100	29.900	56.700	60.100	72.800	97.700	92.400	57.700
Transmitting ERP (watts)	23.540	4.810	0.340	0.320	0.430	6.960	27.560	39.320

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	37-38-13.0 N	085-24-00.0 W	243.8	38.0	

Address: Loretto WT, Water Tank in the Town of

City: Loretto County: MARION 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)	61.400	43.600	34.100	44.800	61.400	57.000	103.700	70.400
Transmitting ERP (watts)	167.010	161.160	30.530	3.300	0.410	9.640	46.850	175.890

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	61.400	43.600	34.100	44.800	61.400	57.000	103.700	70.400
Transmitting ERP (watts)	0.980	23.880	127.520	165.220	42.710	4.010	0.370	0.460

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	61.400	43.600	34.100	44.800	61.400	57.000	103.700	70.400
Transmitting ERP (watts)	1.520	0.370	0.480	3.570	47.930	165.220	127.520	20.330

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	37-42-47.1 N	085-27-56.7 W	218.2	88.4	1259400

Address: Pine Lick Knob, 11 km south of

City: Bardstown County: NELSON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.000	80.800	74.900	78.700	81.800	129.800	115.700	119.200
Transmitting ERP (watts)	100.120	93.440	17.800	1.480	0.260	0.310	1.480	24.580

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.000	80.800	74.900	78.700	81.800	129.800	115.700	119.200
Transmitting ERP (watts)	4.660	26.300	113.020	128.080	126.490	27.090	2.180	0.290

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.000	80.800	74.900	78.700	81.800	129.800	115.700	119.200
Transmitting ERP (watts)	3.720	0.260	0.290	0.450	12.040	74.220	112.340	35.530

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	37-34-02.3 N	085-43-47.1 W	232.9	42.1	

Address: Hodgenville Downtown, Water Tank, 1.2 km SE of

City: Hodgenville County: LARUE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	46.500	41.400	29.900	29.900	34.000	60.400	31.100
Transmitting ERP (watts)	139.820	92.120	15.240	1.400	0.310	3.060	20.470	92.740

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	29.900	46.500	41.400	29.900	29.900	34.000	60.400	31.100
Transmitting ERP (watts)	6.130	36.940	128.460	146.610	55.060	7.600	0.510	0.690

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)	29.900	46.500	41.400	29.900	29.900	34.000	60.400	31.100
Transmitting ERP (watts)	3.310	0.300	1.690	9.200	60.380	146.610	126.700	30.720

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File Number: 0009262187

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	37-49-14.0 N	085-25-28.0 W	220.1	110.4	1042220

Address: Bardstown East, 0.4 MI South of US 62, 2.4 MI (3.8 km) ENE of

City: BARDSTOWN County: NELSON 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)	69.700	62.900	69.600	64.300	92.200	105.300	97.800	75.500
Transmitting ERP (watts)	7.170	90.270	75.080	5.830	0.270	0.240	0.240	0.240

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	69.700	62.900	69.600	64.300	92.200	105.300	97.800	75.500
Transmitting ERP (watts)	0.240	0.240	4.520	78.620	88.210	8.620	0.340	0.240

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	69.700	62.900	69.600	64.300	92.200	105.300	97.800	75.500
Transmitting ERP (watts)	0.260	0.240	0.240	0.240	2.490	56.960	88.210	10.850

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-41-03.7 N	085-51-36.8 W	240.8	64.0	1200367

Address: Elizabethtown Downtown, 1515 Fisher Ridge Rd

City: Elizabethtown County: HARDIN 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)	44.200	72.100	29.900	53.800	66.500	84.300	59.700	55.700
Transmitting ERP (watts)	103.650	30.190	1.570	0.310	0.310	0.310	0.790	31.570

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	44.200	72.100	29.900	53.800	66.500	84.300	59.700	55.700
Transmitting ERP (watts)	0.310	3.760	84.830	126.930	15.260	0.600	0.310	0.310

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)	44.200	72.100	29.900	53.800	66.500	84.300	59.700	55.700
Transmitting ERP (watts)	0.330	0.310	0.310	0.310	13.670	120.870	74.970	4.960

Licensee Name: CELLCO PARTNERSHIP

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File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
59	37-42-30.7 N	085-57-36.0 W	252.7	44.5	1256880

Address: Elizabethtown West, 531 Thomas Lane

City: Elizabethtown County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.700	52.800	62.300	71.000	84.900	63.200	73.400	53.000
Transmitting ERP (watts)	166.170	73.380	8.520	0.430	0.330	0.480	9.780	78.620

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.700	52.800	62.300	71.000	84.900	63.200	73.400	53.000
Transmitting ERP (watts)	0.910	22.500	119.470	150.960	39.250	3.620	0.330	0.440

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	68.700	52.800	62.300	71.000	84.900	63.200	73.400	53.000
Transmitting ERP (watts)	1.370	0.330	0.480	3.300	44.040	150.960	116.750	18.720

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
60	37-47-54.1 N	085-54-40.5 W	260.0	51.8	

Address: Longview, 11 km NNW of

City: Elizabethtown County: HARDIN 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)	128.000	127.700	103.000	59.100	70.600	65.800	76.600	101.300
Transmitting ERP (watts)	30.020	118.460	146.650	67.150	10.130	0.720	0.520	5.460

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)	128.000	127.700	103.000	59.100	70.600	65.800	76.600	101.300
Transmitting ERP (watts)	0.300	1.440	6.390	52.450	143.540	135.170	37.900	4.240

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.000	127.700	103.000	59.100	70.600	65.800	76.600	101.300
Transmitting ERP (watts)	104.590	19.280	1.710	0.300	1.930	15.990	80.200	144.040

Licensee Name: CELLCO PARTNERSHIP

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
61	37-39-21.4 N	085-30-55.0 W	174.3	88.4	1278910

Address: New Hope, 4808 New Hope Road

City: New Haven County: NELSON 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)	76.600	63.900	60.000	50.400	57.100	62.100	51.900	91.000
Transmitting ERP (watts)	130.990	103.880	21.640	2.140	0.270	1.490	11.530	61.810

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.600	63.900	60.000	50.400	57.100	62.100	51.900	91.000
Transmitting ERP (watts)	3.940	22.290	94.500	128.360	70.660	11.140	0.890	0.350

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.600	63.900	60.000	50.400	57.100	62.100	51.900	91.000
Transmitting ERP (watts)	4.930	0.330	0.900	5.470	39.870	122.420	126.750	40.620

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
62	37-39-14.7 N	085-07-57.5 W	254.5	33.5	

Address: Washington East, 8.5 km southeast of

City: Springfield County: WASHINGTON 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)	42.800	29.900	29.900	29.900	29.900	29.900	36.700	48.800
Transmitting ERP (watts)	21.910	117.640	151.550	40.790	3.900	0.370	0.430	0.890

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)	42.800	29.900	29.900	29.900	29.900	29.900	36.700	48.800
Transmitting ERP (watts)	0.370	0.420	6.930	64.650	166.170	89.240	11.760	0.690

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)	42.800	29.900	29.900	29.900	29.900	29.900	36.700	48.800
Transmitting ERP (watts)	50.180	5.250	0.370	0.410	0.630	17.000	104.850	158.690

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
63	37-47-04.8 N	085-10-14.2 W	245.1	33.5	

Address: Washington North, 12.0 km northeast of

City: Springfield County: WASHINGTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.200	35.000	34.500	29.900	33.500	50.700	69.700	58.500
Transmitting ERP (watts)	141.440	132.000	25.150	2.090	0.370	0.440	2.090	34.720

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.200	35.000	34.500	29.900	33.500	50.700	69.700	58.500
Transmitting ERP (watts)	0.420	6.930	64.650	166.170	89.240	11.760	0.690	0.370

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	47.200	35.000	34.500	29.900	33.500	50.700	69.700	58.500
Transmitting ERP (watts)	5.250	0.370	0.410	0.630	17.000	104.850	158.690	50.180

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
64	37-42-23.0 N	085-52-36.0 W	239.9	33.2	1025387

Address: Helmwood Drive Water Tower, Helmwood Drive at Cherry Wood Drive

City: Elizabethtown County: HARDIN 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)	40.300	65.400	42.200	29.900	46.600	53.000	30.600	35.900
Transmitting ERP (watts)	13.660	127.520	78.630	5.190	0.310	0.310	0.310	0.310

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)	40.300	65.400	42.200	29.900	46.600	53.000	30.600	35.900
Transmitting ERP (watts)	0.310	0.310	0.790	40.320	146.410	38.510	1.570	0.310

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)	40.300	65.400	42.200	29.900	46.600	53.000	30.600	35.900
Transmitting ERP (watts)	15.330	0.570	0.310	0.310	0.310	3.510	82.330	124.620

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
65	37-43-04.0 N	085-42-31.0 W	254.2	126.4	1019052

Address: Hardin-Nelson, 14.5 km east of

City: Elizabethtown County: HARDIN 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)	216.800	209.000	200.700	168.500	111.200	117.900	144.800	168.700
Transmitting ERP (watts)	65.140	85.560	23.840	2.300	0.240	0.240	0.510	11.990

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)	216.800	209.000	200.700	168.500	111.200	117.900	144.800	168.700
Transmitting ERP (watts)	0.260	1.750	24.390	85.560	66.660	11.450	0.880	0.240

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	216.800	209.000	200.700	168.500	111.200	117.900	144.800	168.700
Transmitting ERP (watts)	6.620	0.520	0.240	0.240	1.700	19.410	58.280	39.630

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
66	37-54-01.0 N	085-55-33.5 W	209.1	47.0	

Address: Fort Knox III, Water tank in the town of

City: Fort Knox County: HARDIN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.100	62.400	67.400	48.800	29.900	39.300	38.000	61.100
Transmitting ERP (watts)	51.750	146.700	115.170	23.010	1.860	0.300	1.820	7.840

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.100	62.400	67.400	48.800	29.900	39.300	38.000	61.100
Transmitting ERP (watts)	0.350	3.430	22.970	104.060	156.880	103.360	17.100	1.570

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)	82.100	62.400	67.400	48.800	29.900	39.300	38.000	61.100
Transmitting ERP (watts)	61.780	8.520	0.570	0.770	6.870	41.440	144.130	164.500

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
67	37-11-29.0 N	085-36-08.2 W	241.4	32.5	

Address: Pierce, 236 Pierce Donansburg Road

City: Greensburg County: GREEN 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)	66.900	68.100	54.800	29.900	50.100	32.900	61.800	73.100
Transmitting ERP (watts)	53.170	167.440	149.780	35.670	3.490	0.400	0.370	3.630

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)	66.900	68.100	54.800	29.900	50.100	32.900	61.800	73.100
Transmitting ERP (watts)	0.370	0.580	10.680	91.000	179.990	107.410	15.880	1.740

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	66.900	68.100	54.800	29.900	50.100	32.900	61.800	73.100
Transmitting ERP (watts)	66.780	7.180	0.870	0.370	1.470	25.900	132.880	177.360

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
68	37-46-43.0 N	085-51-42.0 W	269.4	91.1	1065018

Address: Battle Training Road, 7.3 km west of

City: COLESBURG County: HARDIN 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)	147.400	186.900	168.800	108.800	108.200	105.100	120.100	131.500
Transmitting ERP (watts)	2.100	57.790	119.330	18.800	0.690	0.260	0.260	0.260

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	147.400	186.900	168.800	108.800	108.200	105.100	120.100	131.500
Transmitting ERP (watts)	0.260	0.260	3.460	71.650	109.990	13.420	0.540	0.260

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	147.400	186.900	168.800	108.800	108.200	105.100	120.100	131.500
Transmitting ERP (watts)	13.420	0.540	0.260	0.260	0.260	3.460	71.650	109.990

Control Points:

Control Pt. No. 1

Address: 216-W LINCOLN TRAIL

City: RADCLIFF County: State: KY Telephone Number:

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN795

File Number: 0009262187

Print Date:

Waivers/Conditions:

NONE

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WQCS429	File Number 0010160221
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 04-23-2015	Effective Date 09-23-2022	Expiration Date 05-13-2025	Print Date 02-15-2023
Market Number BTA263	Channel Block C	Sub-Market Designator 5	
Market Name Louisville, KY			
1st Build-out Date 05-13-2010	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQCS429

File Number: 0010160221

Print Date: 02-15-2023

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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 (WQGA940), File Number (0009774996), 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: WQGA940

File Number: 0009774996

Print Date: 12-21-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQJQ692), File Number, 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:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WRAM732	File Number 0009262182
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0003290673

Grant Date 01-09-2018	Effective Date 01-13-2021	Expiration Date 01-09-2030	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date 01-09-2024	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRAM732

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRAY795), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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: WRAY795

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRAY796), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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: WRAY796

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WREV443	File Number 0009262182
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 12-11-2019	Effective Date 01-13-2021	Expiration Date 12-11-2029	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 3	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV443

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WREV444	File Number 0009262182
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 12-11-2019	Effective Date 01-13-2021	Expiration Date 12-11-2029	Print Date 03-11-2021
Market Number PEA096	Channel Block B	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREV444

File Number: 0009262182

Print Date: 03-11-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRHE833), File Number (0010283156), and Radio Service (UU - Upper Microwave Flexible Use Service)

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRHE833

File Number: 0010283156

Print Date: 03-15-2023

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF549), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

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

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: WRNF549

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WRNF554), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

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

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: WRNF554

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WRWD815	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 09-23-2022	Effective Date 09-23-2022	Expiration Date 09-06-2025	Print Date
Market Number BTA263	Channel Block C	Sub-Market Designator 8	
Market Name Louisville, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRWD815

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Report
Reference
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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 2 columns: Call Sign (WRWF637), File Number (0010170298), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003290673

Table with 4 columns: Grant Date (09-23-2022), Effective Date (09-23-2022), Expiration Date (12-18-2036), Print Date (02-16-2023); Market Number (BEA047), Channel Block (C), Sub-Market Designator (16); Market Name (Lexington, KY-TN-VA-WV); 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

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

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRWF637

File Number: 0010170298

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

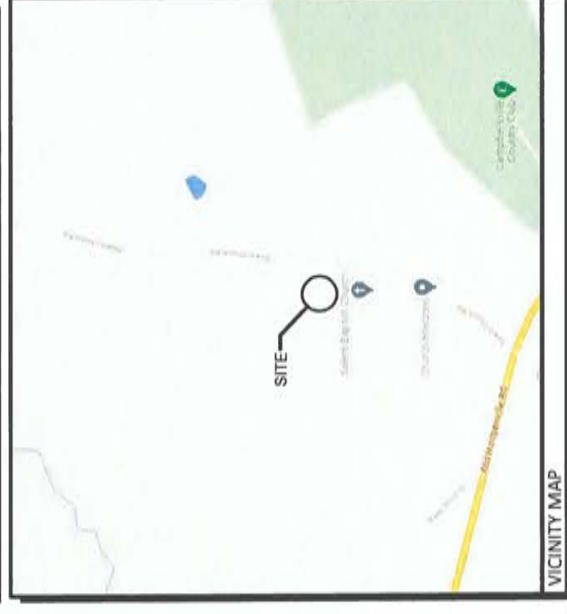


NEW 180'-0" MONOPOLE w/10' LIGHTNING ROD TOTAL TOWER HEIGHT 190'-0"

VERTICAL BRIDGE VBTS, LLC SITE
 FAIRWAY
 SITE #: US-KY-5182
 VERIZON SITE
 CK FAIRWAY
 FUZE ID: 16985020
 LOCATION ID: 5000917843
 SITE ADDRESS
 601 SALEM CHURCH ROAD
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY
 EPI1 ADDRESS: TBD
 TOWER OWNER
 VERTICAL BRIDGE VBTS, LLC
 750 PARK OF COMMERCE DRIVE
 SUITE 200
 BOCA RATON, FL 33487
 CONTACT: ROBERT RODRIGUEZ
 MOBILE: (561) 556-9780
 E-MAIL: ROBERT.RODRIGUEZ@VERTICALBRIDGE.COM

TENANT
 VERIZON
 250 E 96TH ST, SUITE 300
 INDIANAPOLIS, IN 46240
 CONTACT: DAVID EIKE
 PHONE: (224) 856-8101
 E-MAIL: DAVID.EIKE@VERIZONWIRELESS.COM

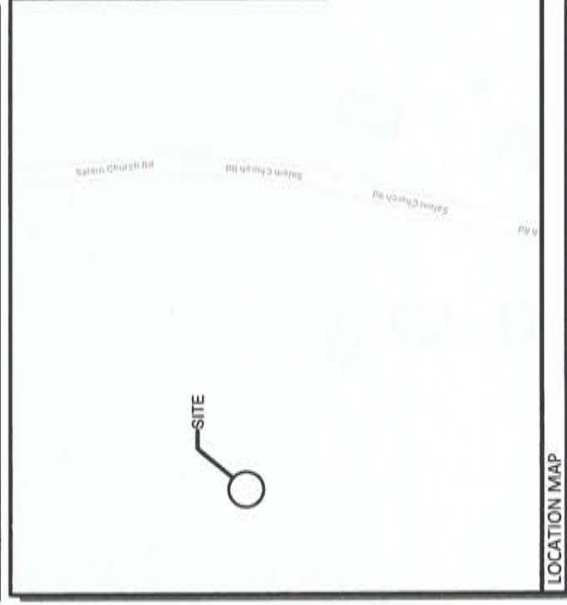
LAND OWNER
 PARCEL ID: 25-005-01
 CONTACT: MARK GRAY
 PHONE: (270) 465-1960



VICINITY MAP

PROJECT DESCRIPTION

- NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:
- VERTICAL BRIDGE VBTS, LLC SCOPE (BTS GC):
 - INSTALL A NEW 180'-0" MONOPOLE W/ 10' LIGHTNING ROD (TOTAL 190'-0")
 - INSTALL A NEW TOWER, FENCED GRASSY COMPOUND
 - INSTALL NEW SITE UTILITY H-FRAME AND NEW SITE ELECTRICAL SERVICE RUN FROM ROW 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 EQUIPMENT ENCLOSURE, GENERATOR, AND LP TANK PADS
 - INSTALL NEW VZW EQUIPMENT ENCLOSURE, GENERATOR, AND LP TANK PADS
 - INSTALL ALL ICE BRIDGE AND ICE BRIDGE FOUNDATIONS
 - INSTALL VZW EQUIPMENT H-FRAME AND FOUNDATIONS
 - INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME
 - INSTALL (3) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH INTEGRAL (3) 1-1/4" INNERDUCTS WITH PULL TAPES FROM TOWER FROM VZW EQUIPMENT TO NEW VERIZON ONLY "24" X36" CONDUIT
 - INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC STUB-UP LOCATION TO THE GENERATOR STUB-UP AT VZW GENERATOR PAD
 - INSTALL NEW FUEL LINE FROM LP TANK STUB-UP LOCATION TO GENERATOR PAD STUB-UP LOCATION
 - PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY
- VERIZON SCOPE (VZW GC):
 - INSTALL VZW PREFABRICATED CANOPY AND FOUNDATIONS
 - INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER (MOUNT ASSEMBLY PROVIDED BY TOWER OWNER)
 - INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
 - INSTALL VZW EQUIPMENT ENCLOSURES FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
 - INSTALL VZW ELECTRIC SERVICE CONDUITS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE EQUIPMENT PAD
 - INSTALL NEW OUTDOOR OVPS AND CABLING ON VERIZON EQUIPMENT H-FRAME
 - INSTALL NEW GENERATOR ON EXISTING CONCRETE PAD
 - INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
 - INSTALL LP TANK ON EXISTING CONCRETE PAD



LOCATION MAP

APPLICABLE CODES

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.

2018 KENTUCKY BUILDING CODE (IBC 2015)
 TIA/IEA-222 - REVISION G (INCLUDES ADDENDUM #2)
 2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)
 KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
 2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
 2015 NATIONAL FIRE CODE (2015 IFC)
 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
 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.

ARCHITECTURAL
 POWER OF DESIGN GROUP, LLC
 11490 BLUEGRASS PARKWAY
 LOUISVILLE, KY 40299
 PHONE: (502) 437-5252

ELECTRICAL
 TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION
 ADDRESS: 625 W MAIN ST
 CAMPBELLSVILLE, KY 42718
 CONTACT: TBD
 PHONE: (270) 465-4101
 EMAIL: TBD

ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.



AERIAL

FAIRWAY

US-KY-5182

601 SALEM CHURCH ROAD
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY

TENANT: CELCO PARTNERSHIP d/b/a VERIZON
 "CK FAIRWAY"

FROM TAYLOR COUNTY COMMISSIONER'S OFFICE: 203 N COURT ST, CAMPBELLSVILLE, KY 42718: HEAD SOUTHWEST ON E MAIN ST TOWARD N CENTRAL AVE (180 FT). TURN RIGHT ONTO N CENTRAL AVE (394 FT). TURN LEFT AT THE 2ND CROSS STREET ONTO E BROADWAY (0.4 MI). E BROADWAY TURNS SLIGHTLY RIGHT AND BECOMES US-68 W/GREENSBURG RD (0.5 MI). TURN RIGHT ONTO KY-210 W (2.2 MI). CONTINUE STRAIGHT TO STAY ON KY-210 W (0.3 MI). TURN RIGHT ONTO SALEM CHURCH RD (0.4 MI). SITE WILL BE LOCATED ON LEFT (WEST) SIDE OF ROAD.

FROM LOUISVILLE MTSO: 2441 HOLLOWAY ROAD LOUISVILLE, KY 40299: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (358 FT). TURN LEFT AT THE 1ST CROSS STREET ONTO PLANTSIDE DR (0.6 MI). TURN RIGHT ONTO BLANKENBAKER RD (0.8 MI). TURN RIGHT ONTO KY-913/BLANKENBAKER PKWY (1.1 MI). TURN LEFT ONTO TAYLORSVILLE RD (4.0 MI). CONTINUE ONTO TAYLORSVILLE LAKE RD (4.6 MI). CONTINUE ONTO KY-155 S (3.9 MI). CONTINUE ONTO KY-55 S (5.5 MI). TURN LEFT ONTO KY-55 S/STATE HWY 55 & JEFFERSON ST & CONTINUE TO FOLLOW KY-55 S/STATE HWY 55 (12.0 MI). TURN LEFT ONTO KY-55 S (15.5 MI). TURN LEFT ONTO BARSTOWN RD (335 FT). TURN RIGHT ONTO KY-55 S/WESTERN BYPASS & CONTINUE TO FOLLOW KY-55 S (7.4 MI). TURN RIGHT ONTO KY-2154 (3.3 MI). TURN RIGHT ONTO US-68 W (2.7 MI). TURN RIGHT ONTO STATE HWY 289 (9.0 MI). TURN RIGHT ONTO STATE HWY 744 (1.5 MI). TURN LEFT ONTO STATE HWY 527 (1.7 MI). CONTINUE STRAIGHT ONTO SALEM CHURCH RD (1.9 MI). SITE WILL BE LOCATED ON RIGHT (WEST) SIDE OF ROAD.



ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:

FAIRWAY

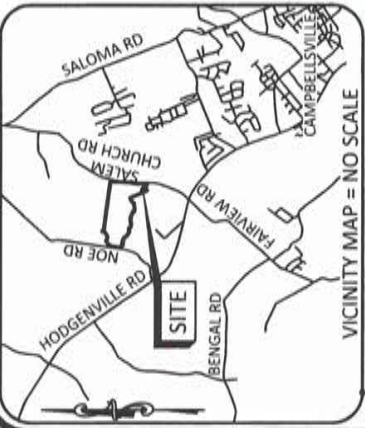
601 SALEM CHURCH ROAD
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
 US-KY-5182

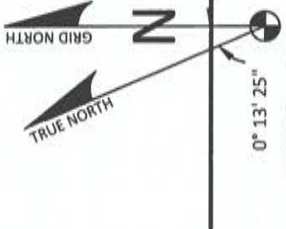
POD NUMBER: 23-158649
 DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 2.1.2024

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, & SHEET INDEX

SHEET NUMBER:
T-1



VICINITY MAP = NO SCALE



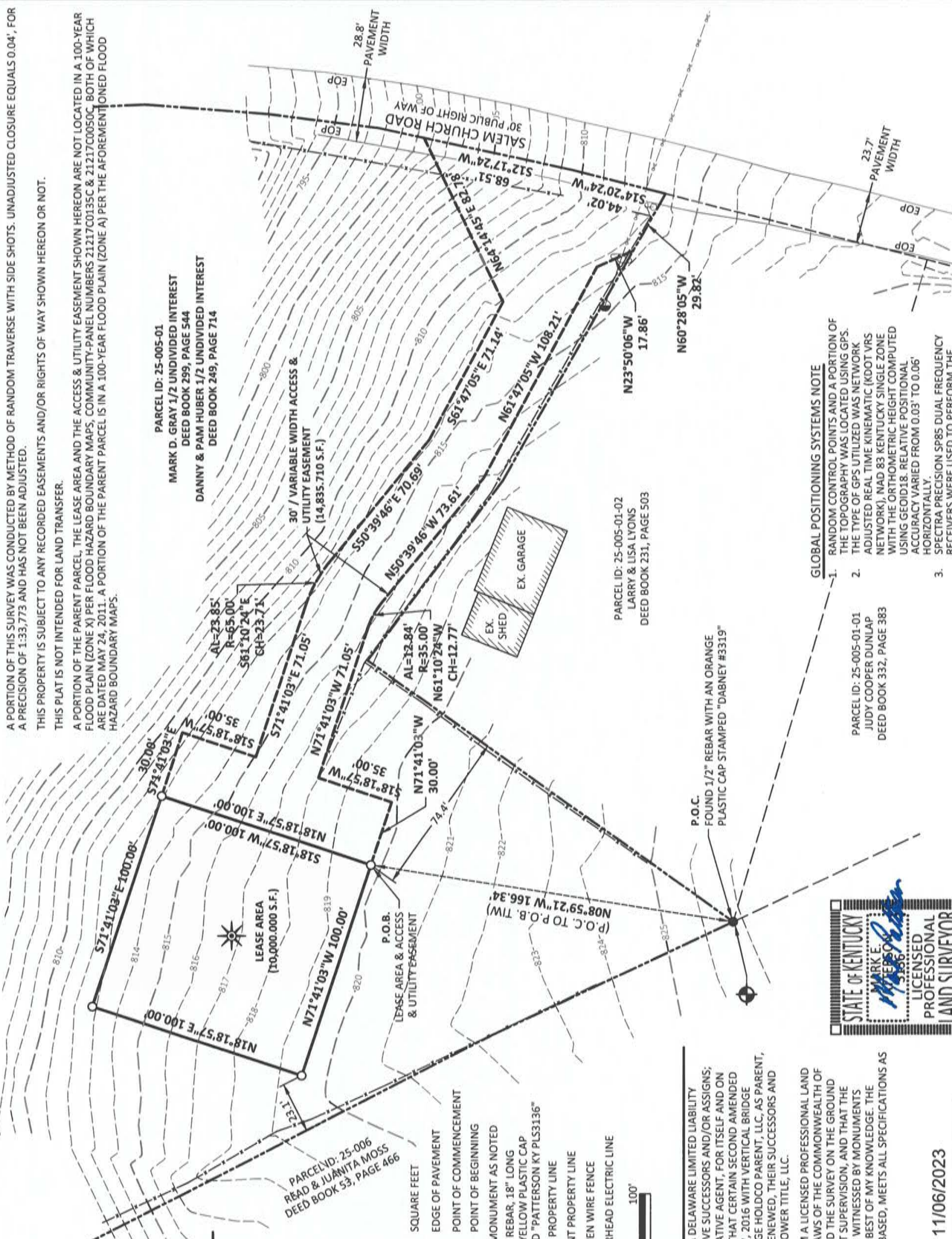
BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON SEPTEMBER 19, 2023

FAA COORDINATE POINT
 NAD 83
 LATITUDE: 37°22'13.453318"
 LONGITUDE: -85°23'10.758954"
 NAVD 88
 ELEVATION: 817 ± AMSL
 NORTHING: 3,658,655.297
 EASTING: 5,026,932.187

TEMPORARY BENCHMARK
 NORTHING: 3,658,427.819
 EASTING: 5,026,937.951
 ELEVATION: 826.81'
 LOCATION: BEING A FOUND 1/2" REBAR WITH ORANGE CAP
 STAMPED "DABNEY #3319" 5.08"59"
 W 166.3 ± FROM THE SOUTHEAST CORNER OF THE LEASE AREA

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.
 THIS DRAWING IS FOR THE LEASE AREA AND THE ACCESS & UTILITY EASEMENT, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT PARCEL HAS BEEN PERFORMED. THERE WERE NO VISIBLE ENCROACHMENTS AFFECTING THE LEASE AREA OR THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT AT THE TIME OF THE SURVEY WAS COMPLETED.
 THE LEASE AREA IS CONTIGUOUS WITH THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT AND THE VARIABLE WIDTH ACCESS AND UTILITY EASEMENT IS CONTIGUOUS WITH THE WEST RIGHT OF WAY LINE OF SALEM CHURCH ROAD, WHICH IS A PUBLIC RIGHT OF WAY.
 THE PREMISES AND THE EASEMENT LAY ENTIRELY WITHIN PARCEL ID: 25-005-01.
 A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.04', FOR A PRECISION OF 1:33,773 AND HAS NOT BEEN ADJUSTED.
 THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.
 THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.
 A PORTION OF THE PARENT PARCEL, THE LEASE AREA AND THE ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAPS, COMMUNITY-PANEL NUMBERS 21217C0135C & 21217C0050C, BOTH OF WHICH ARE DATED MAY 24, 2011. A PORTION OF THE PARENT PARCEL IS IN A 100-YEAR FLOOD PLAIN (ZONE A) PER THE AFOREMENTIONED FLOOD HAZARD BOUNDARY MAPS.



PARCEL ID: 25-005-01
 MARK D. GRAY 1/2 UNDIVIDED INTEREST
 DEED BOOK 299, PAGE 544
 DANNY & PAM HUBER 1/2 UNDIVIDED INTEREST
 DEED BOOK 249, PAGE 714

PARCEL ID: 25-005-01-02
 LARRY & LISA LYONS
 DEED BOOK 231, PAGE 503

GLOBAL POSITIONING SYSTEMS NOTE

- RANDOM CONTROL POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
- THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID18. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.03' TO 0.06' HORIZONTALLY.
- SPECTRA PRECISION SP8S DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



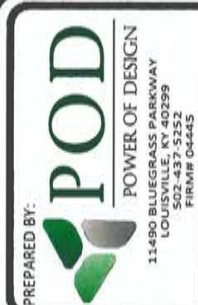
LEGEND

	EX. MAIL BOX
	EX. UTILITY POLE
	EX. GUY ANCHOR
	ARC LENGTH
	RADIUS
	CHORD LENGTH
	SQUARE FEET
	EDGE OF PAVEMENT
	POINT OF COMMENCEMENT
	POINT OF BEGINNING
	FOUND MONUMENT AS NOTED
	SET 1/2" REBAR, 18" LONG
	WITH A YELLOW PLASTIC CAP
	STAMPED "PATTERSON KY PLS136"
	SUBJECT PROPERTY LINE
	ADJACENT PROPERTY LINE
	EX. WOVEN WIRE FENCE
	EX. OVERHEAD ELECTRIC LINE



LAND SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY TO: VERTICAL BRIDGE REIT, LLC A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS; TORONTO DOMINION (TEXAS) LLC, AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED JUNE 17, 2016 WITH VERTICAL BRIDGE HOLDCO, LLC, AS BORROWER, AND VERTICAL BRIDGE HOLDCO PARENT, LLC, AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED, THEIR SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY APPEAR; AND TOWER TITLE, LLC.
 I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18-150.

11/06/2023
 DATE
 Mark Patterson
 MARK PATTERSON, PLS #3136



REVISIONS

REV	DATE	DESCRIPTION
A	9.29.23	PRELIM ISSUE W/TITLE
0	10.19.23	ISSUED AS FINAL
1	11.6.23	CLIENT COMMENTS

SITE INFORMATION:
FAIRWAY
 601 SALEM CHURCH ROAD
 CAMPBELLVILLE, KY 42718
 TAYLOR COUNTY
TAX PARCEL NUMBER:
 25-005-01
PROPERTY OWNERS:
 MARK D. GRAY
 1/2 INTEREST
 80 CAMELOT DR.
 CAMPBELLVILLE, KY 42718
SOURCE OF TITLE:
 DEED BOOK 299, PAGE 544
 DANNY HUBER & PAM HUBER
 1/2 INTEREST
 104 LONDON LANE
 CAMPBELLVILLE, KY 42718
SOURCE OF TITLE:
 DEED BOOK 249, PAGE 714

SITE NUMBER:
 US-KY-5182
POD NUMBER:
 23-158646
DRAWN BY:
 ADM
CHECKED BY:
 MEP
SURVEY DATE:
 9.19.23
PLAT DATE:
 9.28.23

SHEET TITLE:
SITE SURVEY
 THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL
SHEET NUMBER: (3 pages)
B-1

LEGAL DESCRIPTIONS

LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF THE LEASE AREA TO BE GRANTED FROM A PORTION OF THE PROPERTY CONVEYED TO MARK D. GRAY, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 299, PAGE 544, AND DANNY & PAM HUBER, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 249, PAGE 714, IN THE OFFICE OF THE CLERK OF TAYLOR COUNTY, KENTUCKY, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET VRS NETWORK COMPLETED ON SEPTEMBER 19, 2023.

COMMENCING AT A FOUND 1/2" REBAR WITH AN ORANGE PLASTIC CAP STAMPED "DABNEY #3319" IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO MARK D. GRAY, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 299, PAGE 544, AND DANNY & PAM HUBER, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 249, PAGE 714, SAID COMMENCEMENT POINT ALSO BEING THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO LARRY & LISA LYONS AS RECORDED IN DEED BOOK 231, PAGE 503, PARCEL ID: 25-005-01-02, ALSO BEING THE NORTHWEST CORNER OF THE PROPERTY CONVEYED TO JUDY COOPER DUNLAP AS RECORDED IN DEED BOOK 332, PAGE 383, PARCEL ID: 25-005-01-01, ALSO BEING IN THE EAST LINE OF THE PROPERTY CONVEYED TO READ & JUANITA MOSS AS RECORDED IN DEED BOOK 53, PAGE 466; THENCE LEAVING THE SOUTHWEST CORNER OF SAID LYONS AND LEAVING THE NORTHWEST CORNER OF SAID DUNLAP, AND LEAVING THE EAST LINE OF SAID MOSS, AND LEAVING THE SOUTHWEST CORNER OF SAID GRAY & HUBER AND TRaversing THE LANDS OF SAID GRAY & HUBER, N08°59'21"W 166.34 TO A SET 1/2" REBAR, 18" LONG, WITH A YELLOW PLASTIC CAP STAMPED "PATTERSON PLS #3136", HEREAFTER REFERRED TO AS A "SET IPC" IN THE SOUTHWEST CORNER OF THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT, AND BEING THE SOUTHEAST CORNER OF THE LEASE AREA AND BEING THE TRUE POINT OF BEGINNING OF THE LEASE AREA; THENCE WITH THE SOUTH LINE OF THE LEASE AREA, N71°41'03"W 100.00' TO A "SET IPC"; THENCE N18°18'57"E 100.00' TO A "SET IPC"; THENCE S71°41'03"E 100.00' TO A "SET IPC"; THENCE S18°18'57"W 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET PER SURVEY BY MARK E. PATTERSON, PLS #3136 ON SEPTEMBER 19, 2023.

30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE LEASE AREA TO BE GRANTED FROM A PORTION OF THE PROPERTY CONVEYED TO MARK D. GRAY, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 299, PAGE 544, AND DANNY & PAM HUBER, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 249, PAGE 714, IN THE OFFICE OF THE CLERK OF TAYLOR COUNTY, KENTUCKY, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET VRS NETWORK COMPLETED ON SEPTEMBER 19, 2023.

COMMENCING AT A FOUND 1/2" REBAR WITH AN ORANGE PLASTIC CAP STAMPED "DABNEY #3319" IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO MARK D. GRAY, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 299, PAGE 544, AND DANNY & PAM HUBER, 1/2 UNDIVIDED INTEREST, PARCEL ID: 25-005-01, AS RECORDED IN DEED BOOK 249, PAGE 714, SAID COMMENCEMENT POINT ALSO BEING THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO LARRY & LISA LYONS AS RECORDED IN DEED BOOK 231, PAGE 503, PARCEL ID: 25-005-01-02, ALSO BEING THE NORTHWEST CORNER OF THE PROPERTY CONVEYED TO JUDY COOPER DUNLAP AS RECORDED IN DEED BOOK 332, PAGE 383, PARCEL ID: 25-005-01-01, ALSO BEING IN THE EAST LINE OF THE PROPERTY CONVEYED TO READ & JUANITA MOSS AS RECORDED IN DEED BOOK 53, PAGE 466; THENCE LEAVING THE SOUTHWEST CORNER OF SAID LYONS AND LEAVING THE NORTHWEST CORNER OF SAID DUNLAP, AND LEAVING THE EAST LINE OF SAID MOSS, AND LEAVING THE SOUTHWEST CORNER OF SAID GRAY & HUBER AND TRaversing THE LANDS OF SAID GRAY & HUBER, N08°59'21"W 166.34 TO A SET 1/2" REBAR, 18" LONG, WITH A YELLOW PLASTIC CAP STAMPED "PATTERSON PLS #3136", HEREAFTER REFERRED TO AS A "SET IPC" IN THE SOUTHWEST CORNER OF THE LEASE AREA, AND BEING THE SOUTHWEST CORNER OF THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT, AND BEING THE TRUE POINT OF BEGINNING OF THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT; THENCE WITH THE WEST LINE OF THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT AND WITH THE EAST LINE OF THE LEASE AREA, N18°18'57"E 100.00' TO A "SET IPC" IN THE NORTHEAST CORNER OF THE LEASE AREA, ALSO BEING THE NORTHWEST CORNER OF THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT; THENCE LEAVING THE EAST LINE OF THE LEASE AREA, AND WITH THE NORTH LINE OF THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT, S71°41'03"E 30.00'; THENCE S18°18'57"W 35.00'; THENCE S71°41'03"E 71.05'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 23.85', THE CHORD OF WHICH BEARS S61°10'24"E 23.71'; THENCE S50°39'46"E 70.69'; THENCE S61°47'05"E 71.14'; THENCE N64°14'45"E 82.78' TO A POINT IN THE EAST LINE OF SAID GRAY & HUBER, ALSO BEING IN THE WEST RIGHT OF WAY LINE OF SALEM CHURCH ROAD; THENCE CONTINUING WITH THE WEST RIGHT OF WAY LINE OF SALEM CHURCH ROAD AND THE EAST LINE OF SAID GRAY & HUBER, S12°17'24"W 68.51'; THENCE CONTINUING WITH THE WEST RIGHT OF WAY LINE OF SALEM CHURCH ROAD AND THE EAST LINE OF SAID GRAY & HUBER, S14°20'24"W 44.02' TO A POINT IN THE SOUTHEAST CORNER OF SAID GRAY & HUBER, ALSO BEING THE NORTHEAST CORNER OF SAID LYONS; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF SALEM CHURCH ROAD, AND WITH THE SOUTH LINE OF SAID GRAY & HUBER AND THE NORTH LINE OF SAID LYONS, N60°28'05"W 29.82'; THENCE LEAVING THE NORTH LINE OF SAID LYONS AND LEAVING THE SOUTH LINE OF SAID GRAY & HUBER, AND TRAVERSING THE LAND OF GRAY & HUBER, N23°50'06"W 17.86'; THENCE N61°47'05"W 108.21'; THENCE N50°39'46"W 73.61'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', AN ARC LENGTH OF 12.84', THE CHORD OF WHICH BEARS N61°10'24"W 12.77'; THENCE N71°41'03"W 71.05'; THENCE S18°18'57"W 35.00'; THENCE N71°41'03"W 30.00' TO THE POINT OF BEGINNING CONTAINING 14,835.710 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 ON SEPTEMBER 19, 2023.

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY TO: VERTICAL BRIDGE REIT, LLC A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS; TORONTO DOMINION (TEXAS) LLC, AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME TO THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED JUNE 17, 2016 WITH VERTICAL BRIDGE HOLDCO, LLC, AS BORROWER, AND VERTICAL BRIDGE HOLDCO PARENT, LLC, AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED, THEIR SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY APPEAR; AND TOWER TITLE, LLC.

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18-150.



11/06/2023

MARK PATTERSON, PLS #3136

DATE

TITLE OF COMMITMENT - PARCEL ID: 025-005-01

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC, AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE AND THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY TOWER TITLE, LLC, PREPARED FOR VERTICAL BRIDGE VBTS, LLC, COMMITMENT NUMBER: VTB-148608-C, EFFECTIVE DATE OF FEBRUARY 27, 2023. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

SCHEDULE B - SECTION II - EXCEPTIONS

- 1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHED, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I—REQUIREMENTS ARE MET. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
3. EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECORDS. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
4. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, ENCROACHMENTS, OVERLAPS, VARIATIONS OR SHORTAGE IN AREA OR CONTENT, PARTY WALLS AND ANY OTHER MATTERS THAT WOULD BE DISCLOSED BY A CORRECT SURVEY AND/OR PHYSICAL INSPECTION OF THE LAND. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY ON THE PARENT PARCEL, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
5. ANY LIEN, OR RIGHT TO LIEN, FOR SERVICES, LABOR OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORD. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
6. ANY WATER OR WELL RIGHTS, OR RIGHTS OR TITLE TO WATER OR CLAIMS THEREOF, IN, ON OR UNDER THE LAND. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
7. UNPATENTED MINING CLAIMS, RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN THE ACTS AUTHORIZING THE ISSUANCE OF SAID PATENTS. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
8. ALL TAXES, ASSESSMENTS, LEVIES AND CHARGES WHICH CONSTITUTE LIENS OR ARE DUE OR PAYABLE INCLUDING UNREDEEMED TAX SALES. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
9. RIGHTS OF FEE SIMPLE OWNERS IN AND TO THE SUBJECT PROPERTY. (THIS ITEM IS NOT A SURVEY ITEM, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
10. PERMANENT EASEMENT BETWEEN GEORGE & RHONDA K. MARRS; AND GREEN-TAYLOR WATER DISTRICT, DATED NOVEMBER 17, 2003 AND RECORDED JUNE 15, 2004 IN (BOOK) 246 (PAGE) 529, IN TAYLOR COUNTY, KENTUCKY. (PERMANENT EASEMENT AS RECORDED IN BOOK 246, PAGE 529, MENTIONS PARENT PARCEL, BUT IS VAGUE AND CANNOT BE PLOTTED, THEREFORE THE IMPACT, IF ANY, ON THE LEASE AREA OR THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT, CANNOT BE DETERMINED.)
11. A 20 FOOT WIDE UTILITY EASEMENT FOR THE USE AND BENEFIT OF GRANTEEES, THEIR HEIRS AND ASSIGNS, AND TAYLOR COUNTY RECC, ITS HEIRS AND ASSIGNS RESERVED IN THE DEED OF CONVEYANCE DATED JULY 13, 2005 AND RECORDED JULY 19, 2005 IN (BOOK) 254 (PAGE) 400 IN TAYLOR COUNTY, KENTUCKY. (THE EASEMENT AS RECORDED IN DEED BOOK 254, PAGE 400 APPLIES AND AFFECTS THE PARENT PARCEL, BUT NOT THE LEASE AREA OR THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT.)
12. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PROPERTY SURVEY FOR MARK GRAY, DANNY HUBER AND GEORGE R. MARRS" DATED JULY 18, 2005 AND RECORDED JULY 19, 2005 IN (BOOK) PC-8 (PAGE) 11, IN TAYLOR COUNTY, KENTUCKY. (MATTERS AS SHOWN ON SURVEY AS RECORDED IN BOOK PC-8, PAGE 11, APPLIES AND AFFECTS THE PARENT PARCEL, BUT NOT THE LEASE AREA OR THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT.)

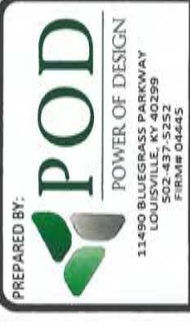


Table with 2 columns: REV, DATE, DESCRIPTION. Row 1: A, 9.29.23, PRELIM ISSUE W/TITLE. Row 2: 0, 10.19.23, ISSUED AS FINAL. Row 3: 1, 11.6.23, CLIENT COMMENTS.

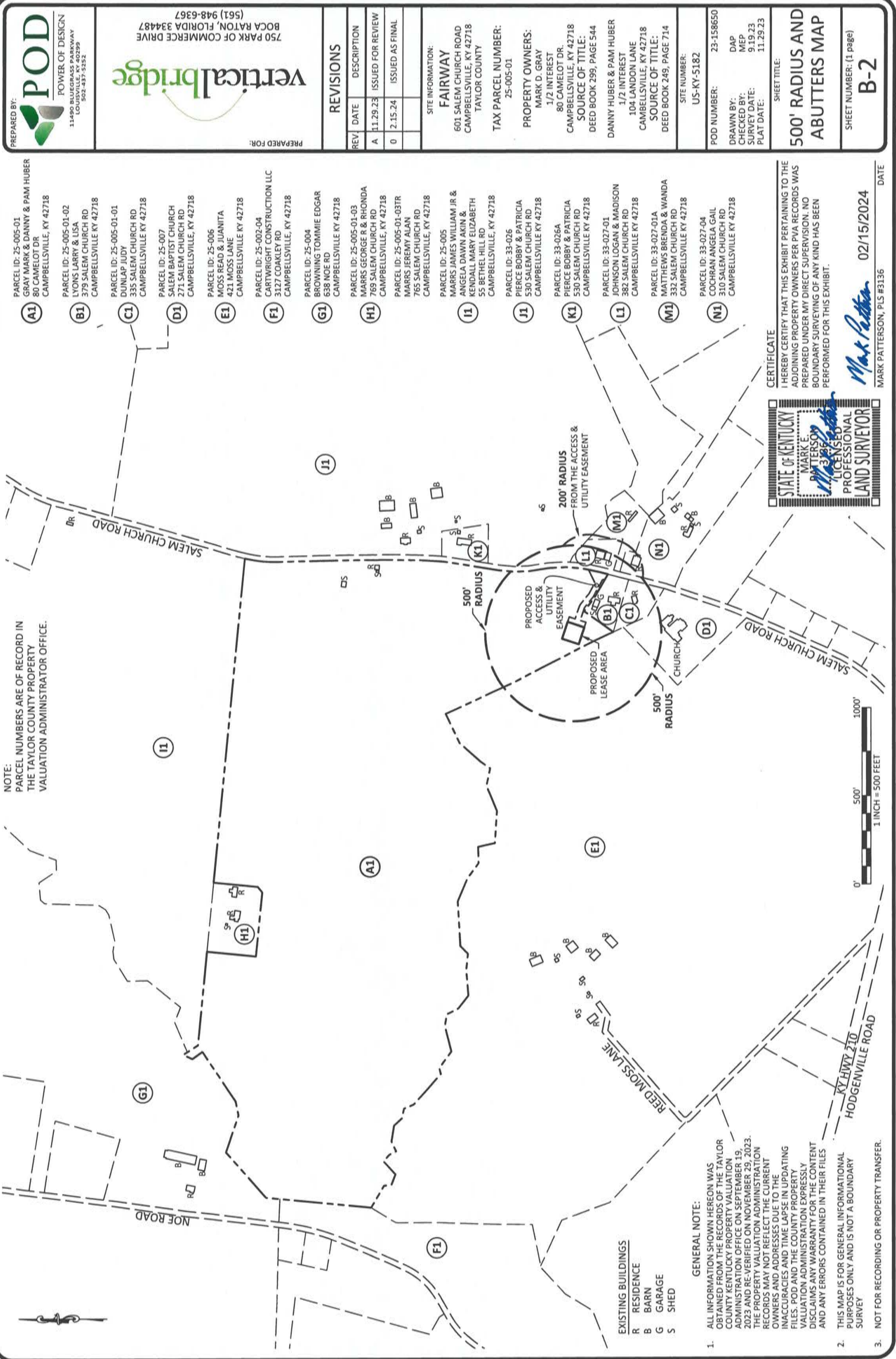
SITE INFORMATION: FAIRWAY 601 SALEM CHURCH ROAD CAMPBELLSVILLE, KY 42718 TAYLOR COUNTY

TAX PARCEL NUMBER: 25-005-01
PROPERTY OWNERS: MARK D. GRAY 1/2 INTEREST 80 CAMELOT DR. CAMPBELLSVILLE, KY 42718
SOURCE OF TITLE: DEED BOOK 299, PAGE 544
DANNY HUBER & PAM HUBER 1/2 INTEREST 104 LONDON LANE CAMPBELLSVILLE, KY 42718
SOURCE OF TITLE: DEED BOOK 249, PAGE 714

SITE NUMBER: US-KY-5182
POD NUMBER: 23-158646
DRAWN BY: ADM
CHECKED BY: MEP
SURVEY DATE: 9.19.23
PLAT DATE: 9.28.23

SHEET TITLE: SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL
SHEET NUMBER: (3 pages)

B-1.1



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

- (A1) PARCEL ID: 25-005-01
GRAY MARK & DANNY & PAM HUBER
80 CAMELOT DR
CAMPBELLSVILLE, KY 42718
- (B1) PARCEL ID: 25-005-01-02
LYONS LARRY & LISA
379 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718
- (C1) PARCEL ID: 25-005-01-01
DUNLAP JUDY
335 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718
- (D1) PARCEL ID: 25-007
SALEM BAPTIST CHURCH
271 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718
- (E1) PARCEL ID: 25-006
MOSS READ & JUANITA
421 MOSS LANE
CAMPBELLSVILLE KY 42718
- (F1) PARCEL ID: 25-002-04
CARTWRIGHT CONSTRUCTION LLC
3127 COAKLEY RD
CAMPBELLSVILLE, KY 42718
- (G1) PARCEL ID: 25-004
BROWNING TOMMIE EDGAR
638 MOE RD
CAMPBELLSVILLE KY 42718
- (H1) PARCEL ID: 25-005-01-03
MARRS GEORGE R & RHONDA
769 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718
- (I1) PARCEL ID: 25-005-01-03TR
MARRS JEREMY ALAN
765 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718
- (J1) PARCEL ID: 25-005
MARRS JAMES WILLIAM JR &
ANGELA DAWN AKIN &
KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718
- (K1) PARCEL ID: 33-026
PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718
- (L1) PARCEL ID: 33-026A
PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718
- (M1) PARCEL ID: 33-027-01
JOHNSON LOGAN & MADISON
382 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718
- (N1) PARCEL ID: 33-027-01A
MATTHEWS BRENDA & WANDA
332 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718
- (O1) PARCEL ID: 33-027-04
COCHRAN ANGELA GAIL
310 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

EXISTING BUILDINGS
R RESIDENCE
B BARN
G GARAGE
S SHED

- GENERAL NOTE:
- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE TAYLOR COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON SEPTEMBER 19, 2023 AND RE-VERIFIED ON NOVEMBER 29, 2023. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
 - THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
 - NOT FOR RECORDING OR PROPERTY TRANSFER.



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

Mark Patterson
MARK PATTERSON, PLS #3136
DATE 02/15/2024

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

PREPARED FOR:
Verticalbridge
750 PARK OF COMMERCE DRIVE
BOCA RATON, FLORIDA 33487
(561) 948-6367

REVISIONS

REV	DATE	DESCRIPTION
A	11.29.23	ISSUED FOR REVIEW
0	2.15.24	ISSUED AS FINAL

SITE INFORMATION:
FAIRWAY
601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

TAX PARCEL NUMBER:
25-005-01

PROPERTY OWNERS:
MARK D. GRAY
1/2 INTEREST
80 CAMELOT DR.
CAMPBELLSVILLE, KY 42718

SOURCE OF TITLE:
DEED BOOK 299, PAGE 544

DANNY HUBER & PAM HUBER
1/2 INTEREST
104 LONDON LANE
CAMPBELLSVILLE, KY 42718

SOURCE OF TITLE:
DEED BOOK 249, PAGE 714

SITE NUMBER:
US-KY-5182

POD NUMBER:
23-158650

DRAWN BY:
DAP

CHECKED BY:
MEP

SURVEY DATE:
9.19.23

PLAT DATE:
11.29.23

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

SHEET NUMBER: (1 page)
B-2

REVISION LOG

REV #	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	2/1/2024	ALL SHEETS	ISSUED FOR REVIEW
B	2/12/2024	ALL SHEETS	REDUCED COMPOUND TO 50X50
0	2/15/2024	ALL SHEETS	ISSUED AS FINAL
1	5/6/2024	ALL SHEETS	REVISED COMPOUND FROM 50X50 TO 75X75 PER PAD/PIER TOWER FOUNDATION



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:

FAIRWAY

601 SALEM CHURCH ROAD
CAMPBELLVILLE, KY 42718
TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

POD NUMBER: 23-158649
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

REVISION LOG

SHEET NUMBER:

R-1



ZONING DRAWINGS

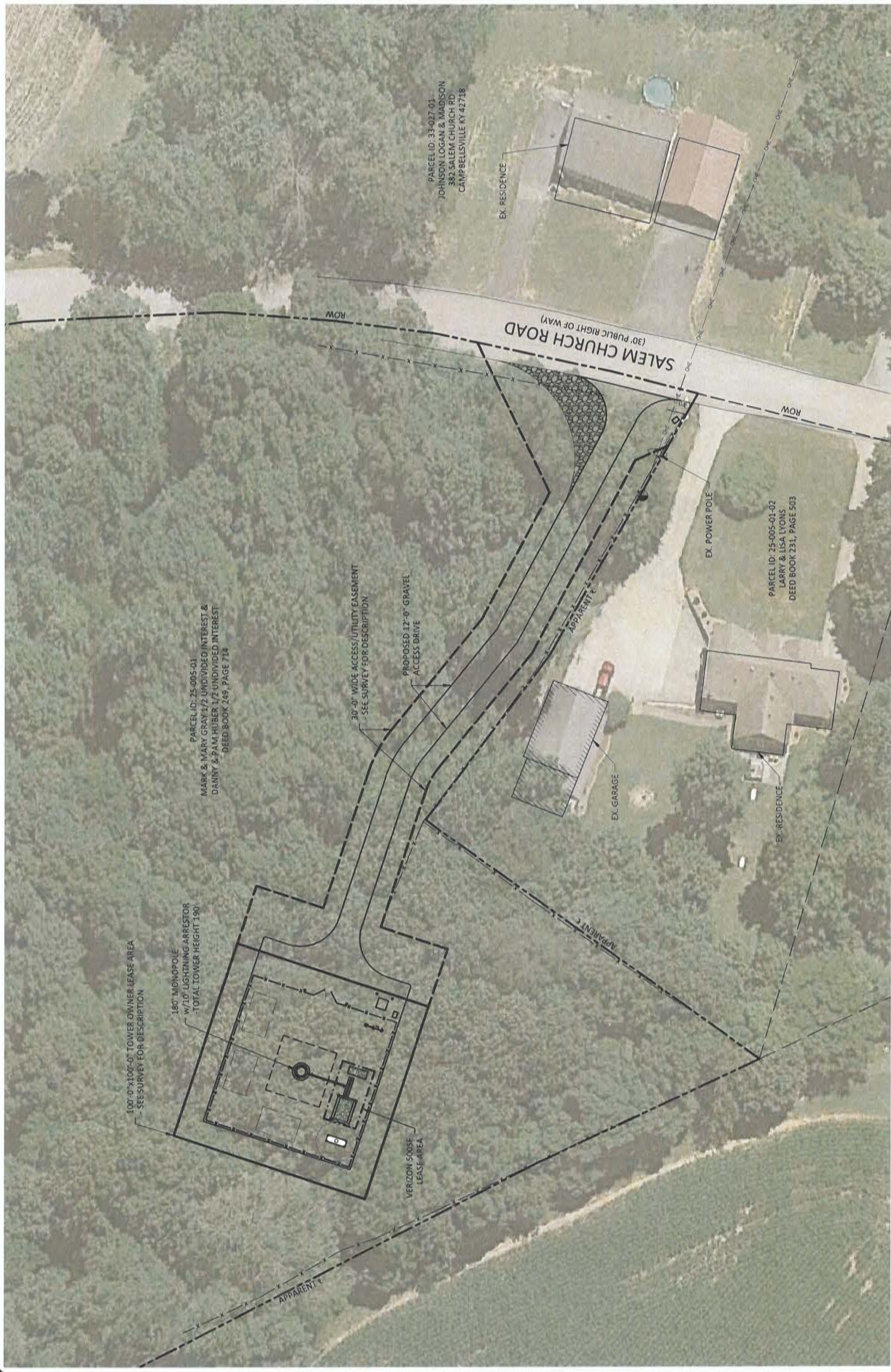
REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:
FAIRWAY
 601 SALEM CHURCH ROAD
 CAMPBELLSVILLE, KY 42718
 TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182
 POD NUMBER: 23-158649
 DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 2.1.2024

SHEET TITLE:
OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:
C-1

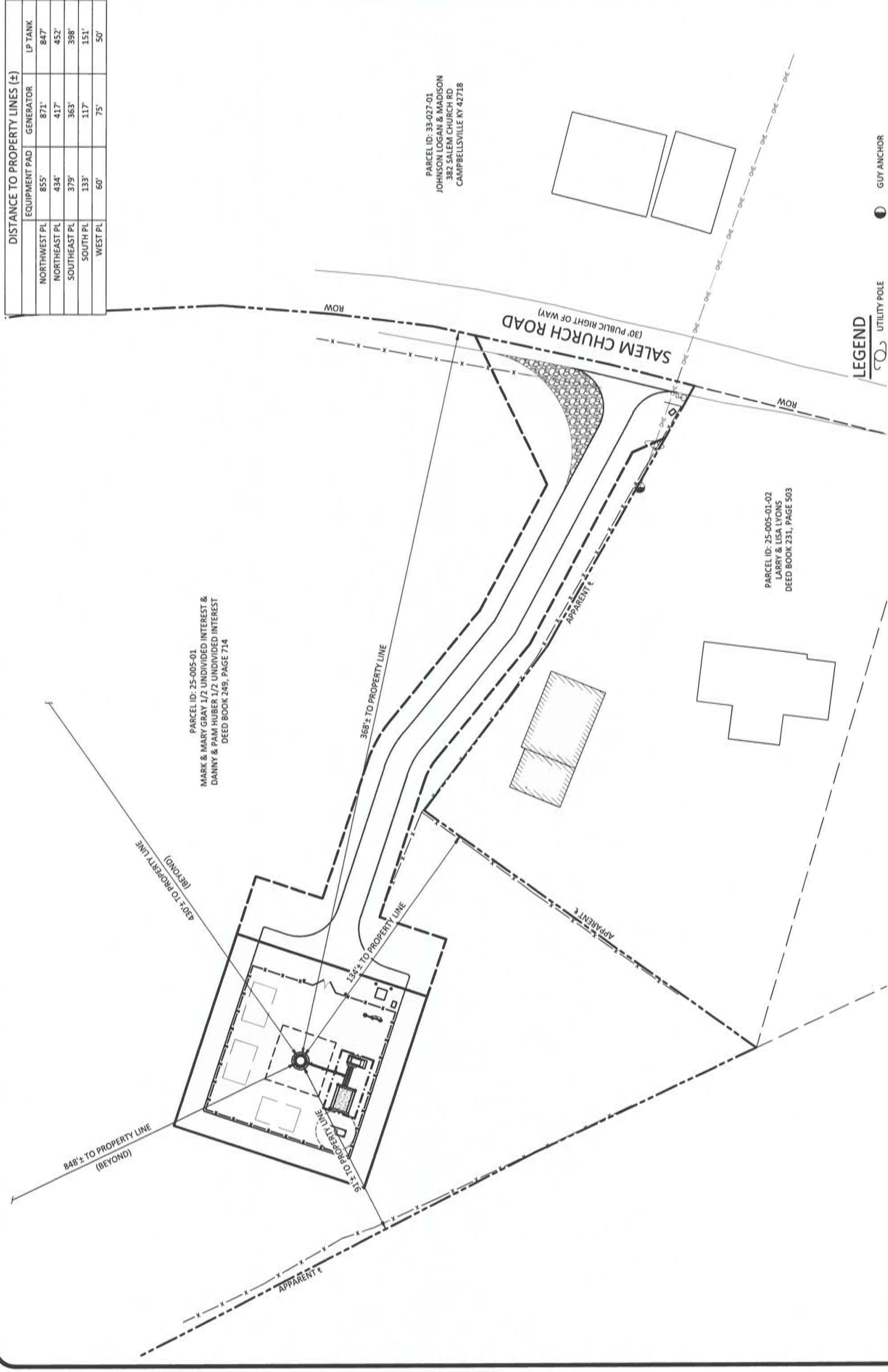


OVERALL SITE PLAN W/AERIAL OVERLAY
 SCALE: 1" = 50'



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DISTANCE TO PROPERTY LINES (±)		
EQUIPMENT PAD	GENERATOR	LP TANK
NORTHWEST PL 855'	871'	847'
NORTHEAST PL 434'	417'	452'
SOUTHEAST PL 379'	363'	398'
SOUTH PL 133'	117'	151'
WEST PL 60'	75'	50'



LEGEND

- UTILITY POLE
- GUY ANCHOR
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- X X X PROPOSED FENCE
- X X X EXISTING FENCE
- DHE EXISTING OVERHEAD ELECTRIC
- DHE&T EXISTING OVERHEAD ELECTRIC & TELEPHONE
- DHE&T EXISTING PAVEMENT
- PROPERTY LINE
- ADJACENT PROPERTY LINE

OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES

SCALE: 1" = 50'

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:

FAIRWAY

601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

POD NUMBER: 23-158649

DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:
OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES

SHEET NUMBER:
C-1A

Call before you dig.
1-800-752-6007
FOR KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE KENTUCKY 811 SERVICE CENTER AT LEAST 72 HOURS BEFORE COMMENCING WORK.



05/06/2024
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:

FAIRWAY
601 SALEM CHURCH ROAD
CAMBELLSVILLE, KY 42718
TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

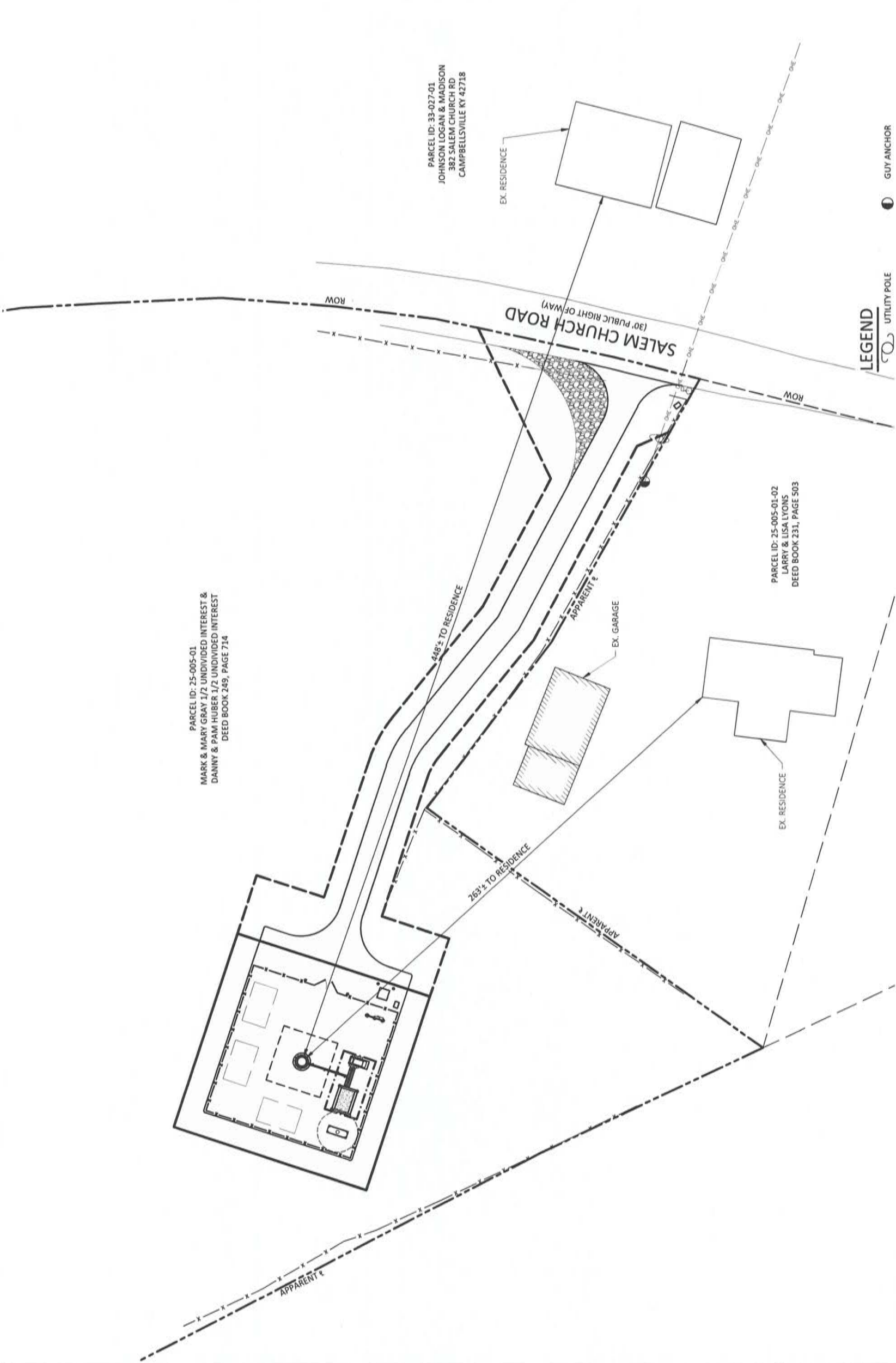
POD NUMBER: 23-158649

DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

TOWER DISTANCE TO RESIDENTIAL STRUCTURES

SHEET NUMBER:
C-1B



LEGEND

- UTILITY POLE
- GUY ANCHOR
- PROPOSED LEASE LINE
- - - - PROPOSED EASEMENT
- - - - PROPOSED GRAVEL
- X X X PROPOSED FENCE
- X X X EXISTING FENCE
- - - - DHE EXISTING OVERHEAD ELECTRIC
- - - - DHE&T EXISTING OVERHEAD ELECTRIC & TELEPHONE
- - - - DHE&T EXISTING PAVEMENT
- - - - PROPERTY LINE
- - - - ADJACENT PROPERTY LINE



TOWER DISTANCE TO RESIDENTIAL STRUCTURES

SCALE: 1" = 50'



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 DIGGATE WITHOUT NOTIFYING THE UNKNOWN DIAL BEFORE COMMENCING WORK.



05/06/2024
EN PERMIT: 3594

ZONING
DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:

FAIRWAY

601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

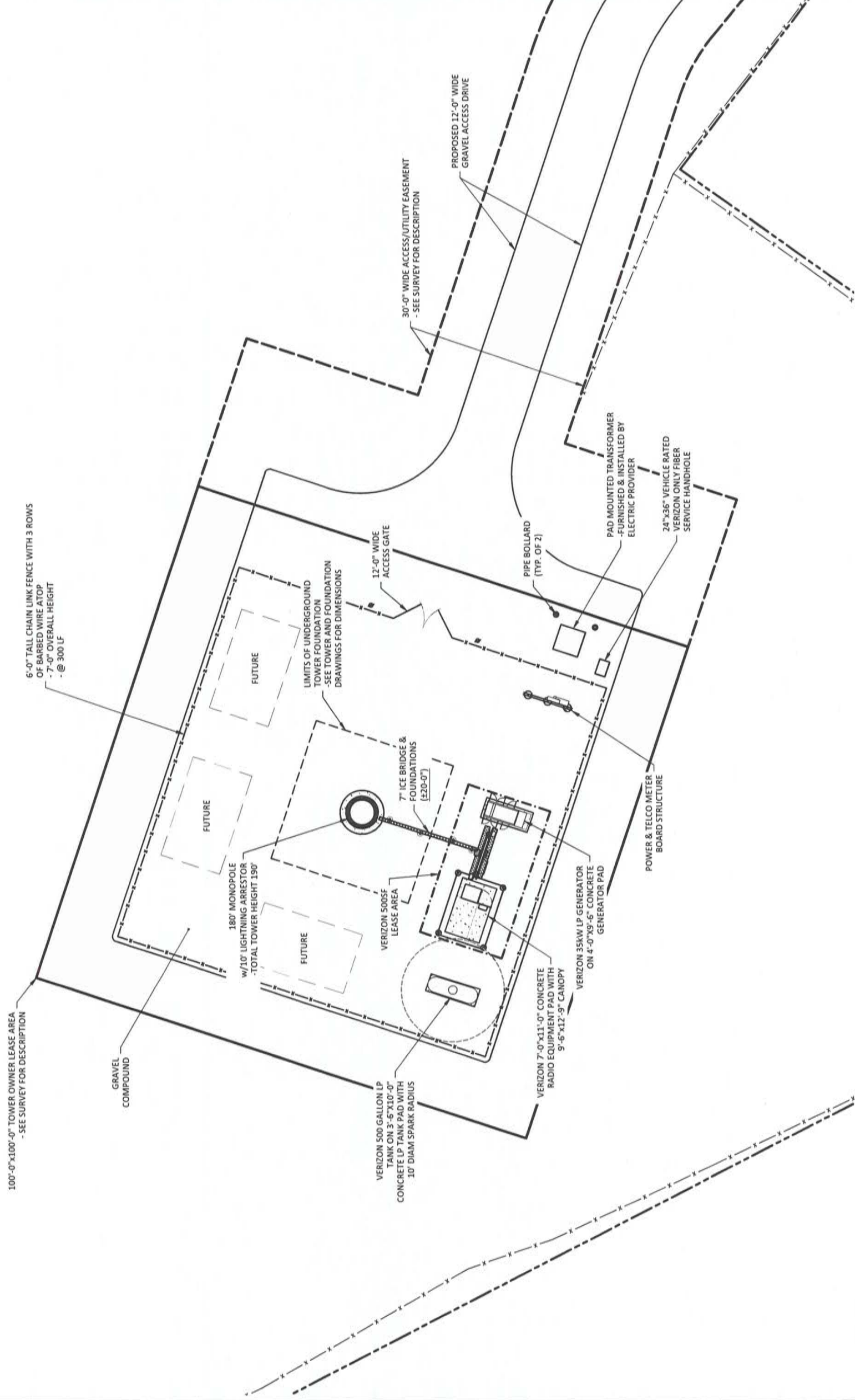
VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

POD NUMBER: 23-158649
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

DETAILED SITE PLAN

SHEET NUMBER:
C-3



LEGEND

---	PROPOSED LEASE LINE
---	PROPOSED EASEMENT
---	PROPOSED GRAVEL
---	PROPOSED FENCE
---	EXISTING FENCE
---	EXISTING PAVEMENT
---	PROPERTY LINE



DETAILED SITE PLAN
SCALE: 1" = 20'

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





05/06/2024
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

SITE INFORMATION:

FAIRWAY

601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

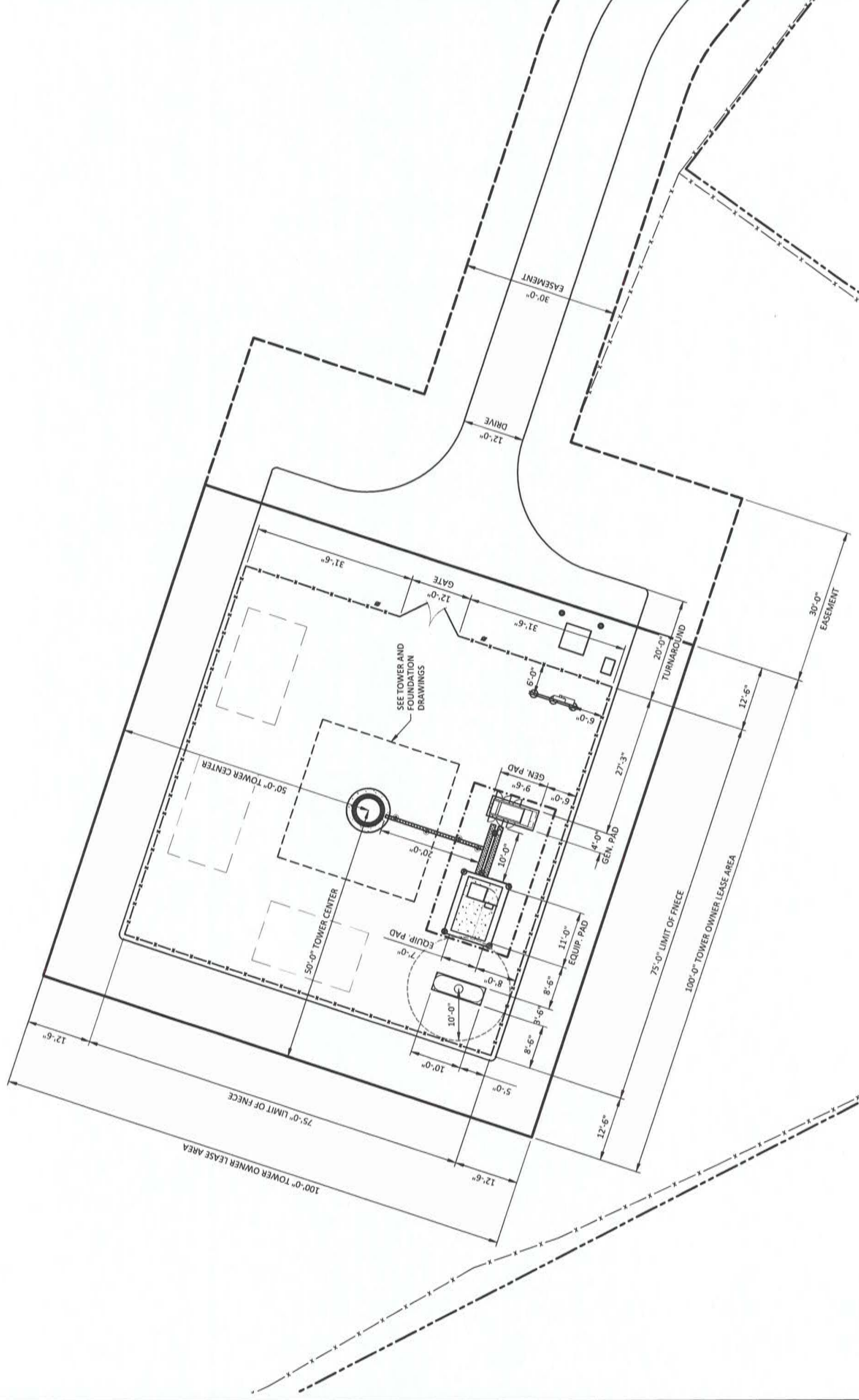
VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

POD NUMBER: 23-158649
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



LEGEND

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- X X X X PROPOSED FENCE
- X X X X EXISTING FENCE
- EXISTING PAVEMENT
- PROPERTY LINE



DIMENSIONED SITE PLAN

SCALE: 1" = 20'

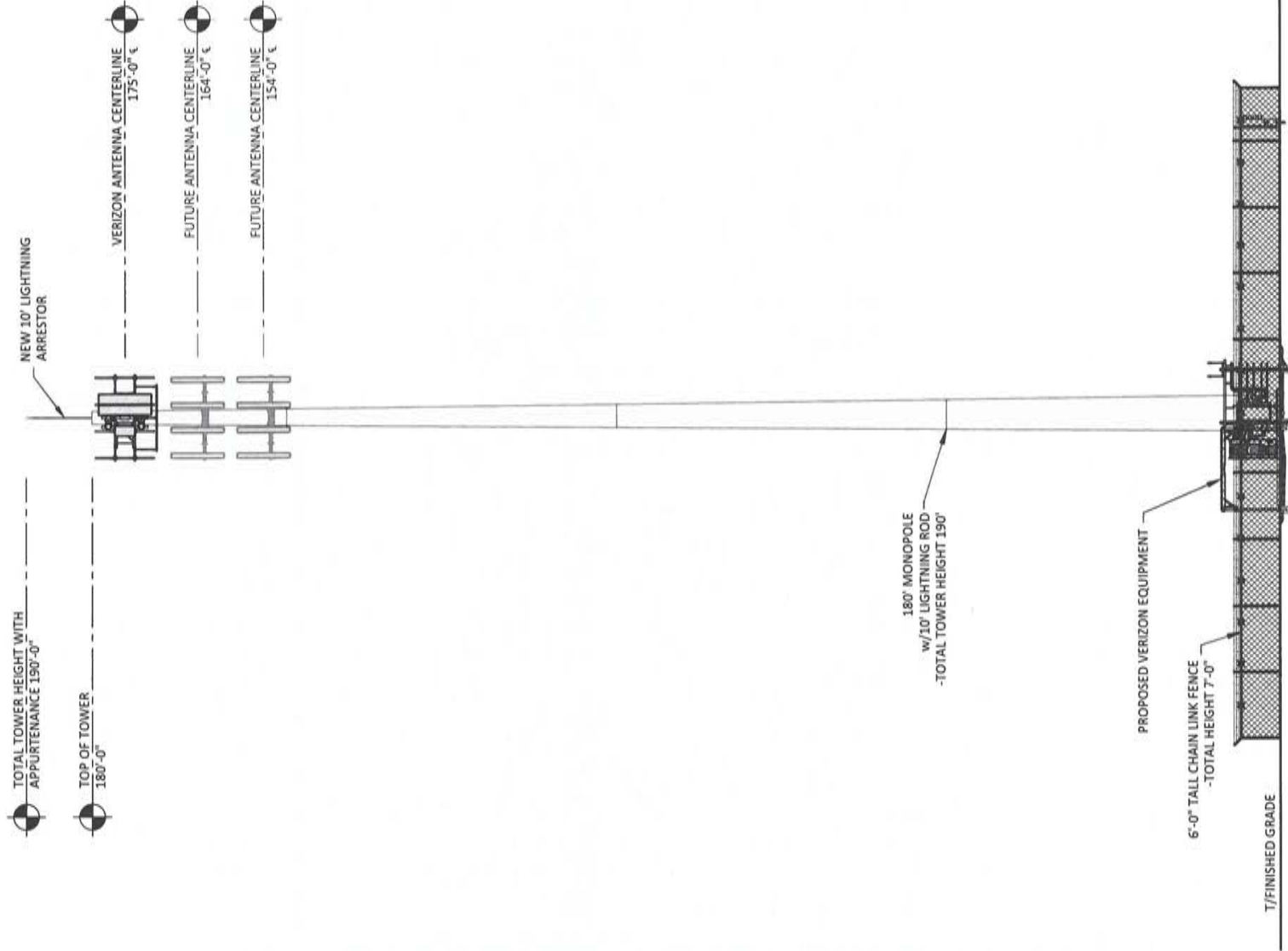
*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO
DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE
OF THE STAKED LEASE AREA WITHOUT APPROVAL
FROM VERIZON CONSTRUCTION MANAGER



Call before you dig.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO DISTURB OR REMOVE ANY UTILITY
WORKING UNDER ANY CONCEALED UTILITY.

NOTE:

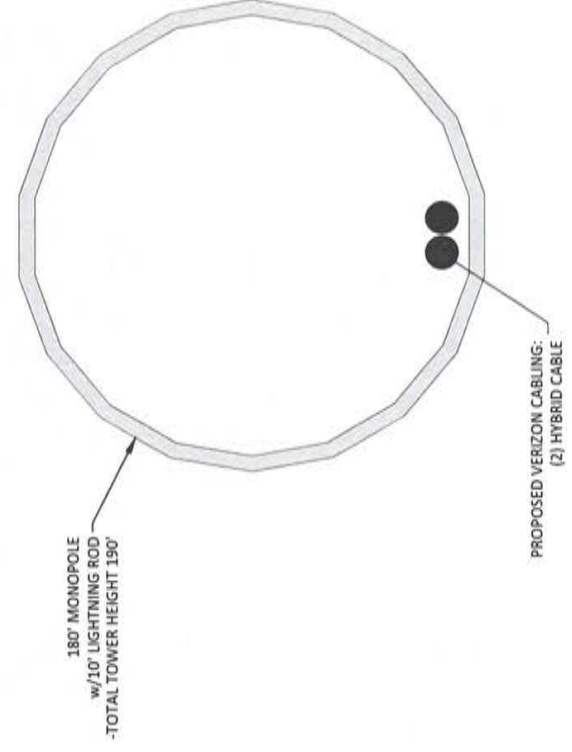
- IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP d/b/a VERIZON (VZW GC)



TOWER ELEVATION
SCALE: N.T.S.



COAX PLAN
SCALE: N.T.S.



TOWER ELEVATION

SHEET NUMBER:
TE-1

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



STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER
05/06/2008
EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	2.1.24	ISSUED FOR REVIEW
B	2.12.24	REDUCED COMPOUND
0	2.15.24	ISSUED AS FINAL
1	5.6.2024	REVISE COMPOUND FROM 55X55 TO 75X75

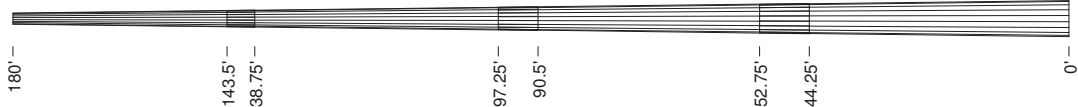
SITE INFORMATION:
FAIRWAY
601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182
POD NUMBER: 23-158649
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

Pole Section Data

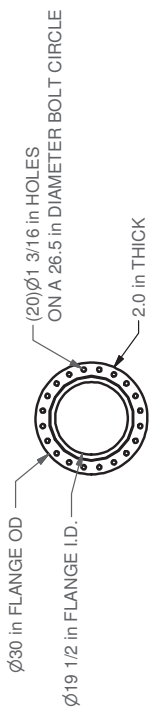
Section	Bottom Height (ft)	Top Height (ft)	Length (ft)	Number of Sides	Bottom OD (in)	Top OD (in)	Wall Thickness (in)	Material	Approximate Weight (lb)	Design Overlap (in)	Minimum Overlap (in)	Maximum Overlap (in)	Design Distance to Top Jacking Nut (in)	Maximum Distance to Top Jacking Nut (in)	Minimum Distance to Top Jacking Nut (in)
1	138.75	180	41.25	18	34.8070	22.4475	0.2500	A572-65	4020	57	51.1/4	62.11/16	15	20.3/4	9.5/16
2	90.5	143.5	53	18	48.5764	32.6963	0.3125	A572-65	7850	81	71.13/16	89.1/8	15	24.3/16	6.7/8
3	44.25	97.25	53	18	61.6216	45.7415	0.3750	A572-65	12470	102	91.1/4	112.3/16	15	25.3/4	4.13/16
4	0	52.75	52.75	18	73.9425	58.1373	0.4375	A572-65	19440			0			



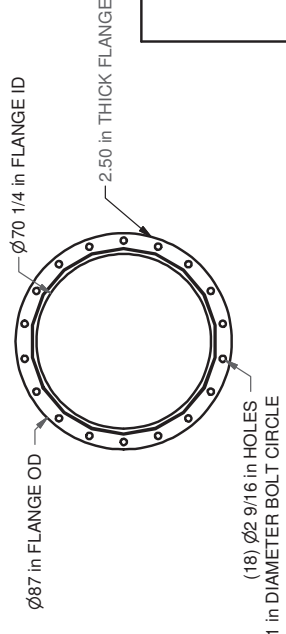
Tower Reactions

- No Ice
 - Shear: 44.6 kips
 - Moment: 5990.53 ft-kips
 - Weight: 72.8 kips
- With Ice
 - Shear: 5.6 kips
 - Moment: 747.24 ft-kips
 - Weight: 96.5 kips

A jacking nut is placed near the top of each section which will have another section placed on top. The distance from this nut to the bottom of the next section must not exceed the value given in the column labeled "Maximum Distance to Top Jacking Nut."



TOP FLANGE DETAIL



BASE FLANGE DETAIL



04/26/2024

TITLE:
The Towers, LLC
NTP 74" X 180"

US-KY-5182 / Fairway
Taylor Co., KY

1201 S. Sheridan St.
South Bend, IN 46619
Bus: (574)288-3632
Fax: (574)288-5860

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ORIG. DATE: 4/24/2024
DWG. NO: 661441
DWG. PROG: V2.05
SHEET: 1 OF 4

Pole Splice Detail

DESCRIPTION

REV	BY	DATE

Portholes

Elevation (ft)	Qty	Size (in)	Azimuth (deg)
172	3	8 x 16	0, 120, 240
161	3	6 x 12	0, 120, 240
151	3	6 x 12	0, 120, 240
122	3	6 x 12	0, 120, 240
8	1	9 x 24	90
6	1	10 x 30	270
6	1	9 x 24	180

Antenna Loading

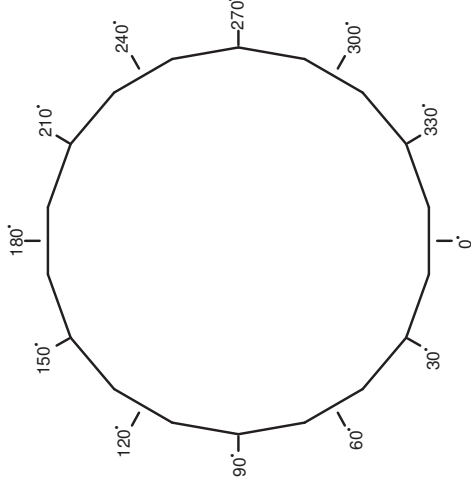
Height	Qty.	Description
175'	1	42,000 sq in CaAa
164'	1	30,000 sq in CaAa
154'	1	30,000 sq in CaAa
125'	2	Dish Pipe Mount
125'	1	Clamp Ring Assembly

Feedline Loading

Height	Qty.	Description
0' - 175'	18	LDF7-50A (1-5/8 FOAM)
0' - 164'	12	LDF7-50A (1-5/8 FOAM)
0' - 154'	12	LDF7-50A (1-5/8 FOAM)
0' - 125'	2	EW63

Dish Loading

Height	Qty.	Description
125'	2	6' Dish with Radome

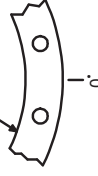


Step Bolts on This Side of Pole

Note:
The azimuths referenced here are only to illustrate where the pole features are in relation to each other. The azimuths are not to indicate which cardinal direction the anchor bolts or the pole should be positioned.

Pole Reference Azimuths

Pole Base Flange



Anchor Bolt Holes Are on Either Side of the 0 Degree Azimuth

Anchor Bolt Azimuth

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DESCRIPTION

REV BY DATE

ORIG. DATE: 4/24/2024
DWG. PROG: V2.05

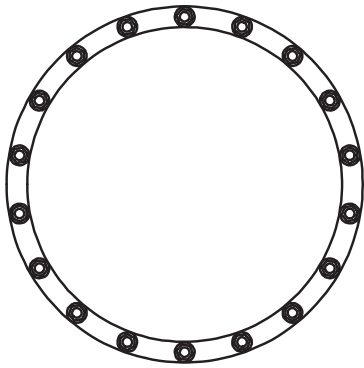
DWG NO: 661441

SHEET: 2 OF 4

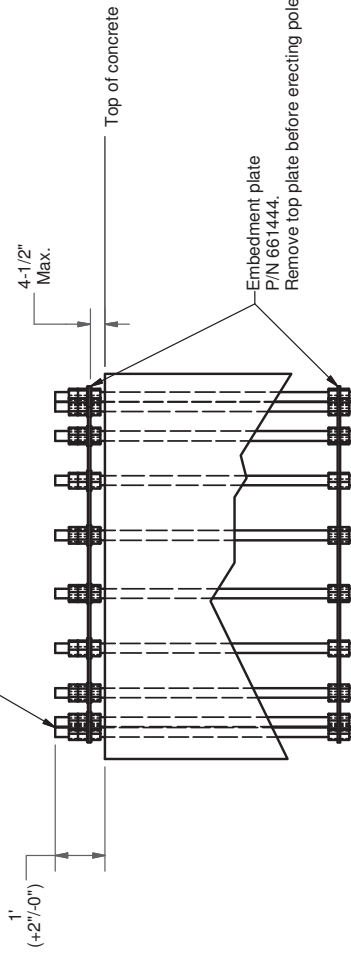
TITLE:
The Towers, LLC
NTP 74" X 180"
US-KY-5182 / Fairway
Taylor Co., KY

N E L L O
1201 S. Sheridan St.
South Bend, IN 46619
Bus: (574)288-3632
Fax: (574)288-5860





2.25" dia. x 72" ASTM A615 grade 75 anchor bolts
 on a 81.00" bolt circle
 P/N 108742.
 18 total.



Note:
 Anchor bolt embedment depth shall be verified by
 foundation engineering.



04/26/2024

TITLE:
 The Towers, LLC
 NTP 74' X 180'
 US-KY-5182 / Fairway
 Taylor Co., KY

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 1201 S. Sheridan St.
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ORIG. DATE: 4/24/2024
 DWG. NO: 661441
 DWG. PROG: V2.05
 SHEET: 3 OF 4


DESCRIPTION

REV BY DATE

Tower Notes:

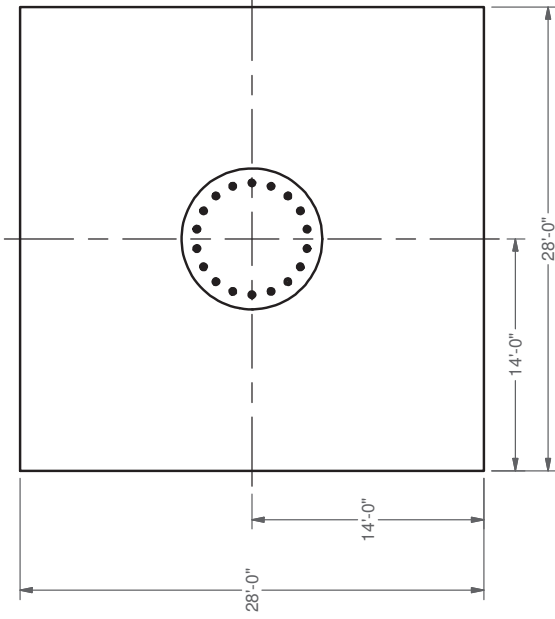
1. Tower is designed per TIA-222-H, "Structural Standard for Antenna Supporting Structures, Anennas and Small Wind Turbine Support Structures," for the following loading conditions:
 106 mph 3-second gust ultimate wind speed with no ice per ASCE 7-16
 30 mph 3-second gust basic wind speed with 1 inch basic ice thickness per ASCE 7-16
 Risk Category: II
 Exposure Category: C
 Topographic Category: 1
 Crest Height: 0 feet
2. A tower field inspection shall be performed in order to verify that design exposure and topographic parameters are consistent with the existing tower site conditions.
3. Tower design includes the antennas, dishes, and/or lines listed in the appurtenance loading tables on sheet 2.
4. Antenna mounting pipes may need to be field cut to match the lengths listed in the appurtenance loading tables on sheet 2.
5. Tower member design does not include stresses due to erection since erection equipment and procedures are unknown. Tower installation shall be performed by competent and qualified erectors in accordance with TIA-222-H and OSHA standards and all applicable building codes.
6. Field connections shall be bolted. No field welds shall be allowed unless otherwise noted.
7. Structural bolts shall conform to ASTM A325, except for 1/2 inch diameter and smaller bolts, which shall conform to ASTM A449 or SAE J429 Grade 5.
8. Structural steel and connection bolts shall be galvanized after fabrication in accordance with TIA-222-H.
9. All high strength bolts shall be tightened to a "snug tight" condition as defined in the RCSC "Specification for Structural Joints Using ASTM A325 or A490 Bolts."
10. Tower shall be marked and lighted in conformance with local building codes, FAA regulations, and TIA-222-H.
11. Tower shall be grounded in conformance with local building codes and TIA-222-H. Evaluation of protective grounding and consideration for special grounding systems shall be performed by others.
12. Allowable tolerance on as-built tower steel height is plus 1% or minus 1/2%.
13. Maintenance and inspection shall be performed over the life of the structure in accordance with TIA-222-H.
14. Material specifications:
 NTP 18-Sided Pole - ASTM A572 Grade 65
 Pole Flange - ASTM A572 Grade 50
 Pole Porchhole Rim - ASTM A572 Grade 65
15. A jacking nut is placed near the top of each section which will have another section placed on top. The distance from this top jacking nut to the bottom of the next section must not exceed the value given in the column labeled "Maximum Distance to Top Jacking Nut." Slip splices shall be jacked together to obtain a tight, even joint. The jacking force shall be applied regardless of the slip splice and the length obtained during initial fit up. The jacking force shall be increased until no additional movement of the joint occurs. Once the slip joint is made contact Nello if the sum of the length of gaps that exceed 1/8" is more than 30% of the slip joint's circumference or a gap extends across two full adjacent flats and the maximum gap exceeds 1/4".
16. The horizontal distance between the vertical centerlines at any two elevations shall not exceed 0.25 percent of the vertical distance between the two elevations. Measure early in the morning before the sunward side of the pole expands.
17. Sections must be erected with the 0 degree azimuth lined up to ensure proper fit.
18. Remove anchor bolt template before erecting pole.
19. Concrete contractor shall be responsible for properly aligning anchor bolts and materials before and after placing concrete, regardless of whether an anchor bolt template is provided.



TITLE: The Towers, LLC NTP 74" X 180' US-KY-5182 / Fairway Taylor Co., KY	 N E L L O 1201 S. Sheridan St. South Bend, IN 46619 Bus: (574)288-3632 Fax: (574)288-5860

REV	BY	DATE	DESCRIPTION

ORIG. DATE: 4/24/2024 DWG. PROG: V2.05	DWG NO: 661441 SHEET: 4 OF 4
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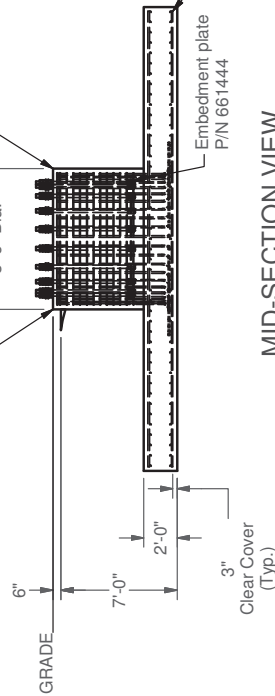


PLAN VIEW
(REINFORCEMENT NOT SHOWN FOR CLARITY)

#9 reinforcing bars,
98.00" long before being bent with
4.51" bend radius and
18.05" long 90 degree standard hook,
equally spaced around inside of ties,
43 total.

Exposed concrete edges to have
a 1" chamfer.

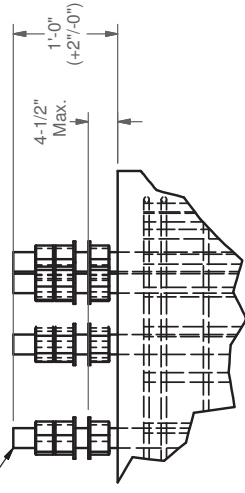
Pier may be constructed square.



MID-SECTION VIEW

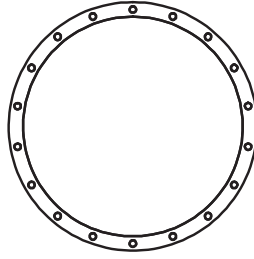
PIER AND PAD FOUNDATION
(CONCRETE VOLUME: 69.6 CU. YD.)

2.25" dia. X 72" ASTM A615 grade 75 anchor bolts,
P/N 108742,
18 total.



ANCHOR BOLT DETAIL

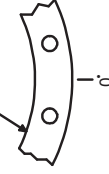
86.0 in EMBEDMENT PLATE O.D.
(18.0) 2-5/16" HOLES
ON A 81.0 in DIAMETER BOLT CIRCLE
76.0 in EMBEDMENT PLATE I.D.



EMBEDMENT PLATE DETAIL

Concrete Compressive Strength, $f_c = 4500$ psi

Pole Base Flange



Anchor Bolt Holes
Are on Either Side of
the 0 Degree Azimuth

Anchor Bolt Azimuth



04/26/2024

TITLE:
The Towers, LLC
NTP 74" X 180'
US-KY-5182 / Fairway
Taylor Co., KY



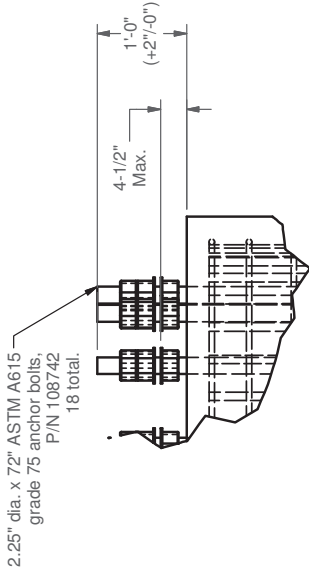
1201 S. Sheridan St.
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Fax: (574)288-5860

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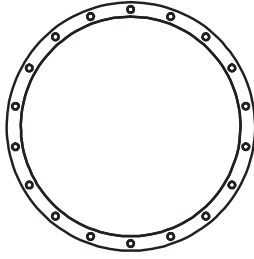
ORIG. DATE: 4/24/2024
DWG. PROG: v 1.06
DWG NO: 661442
SHEET: 1 OF 3

DESCRIPTION

REV BY DATE

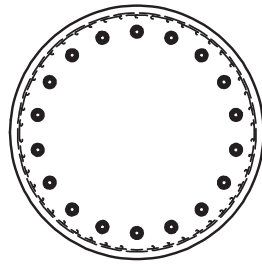


ANCHOR BOLT DETAIL

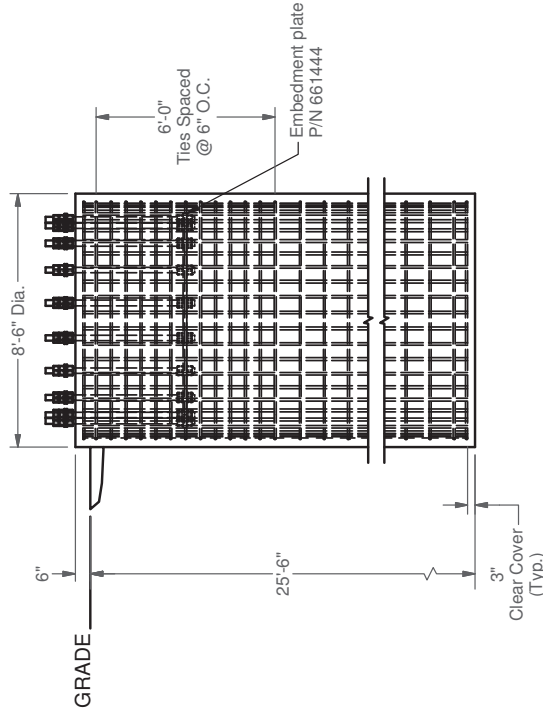


EMBEDMENT PLATE DETAIL

Concrete Compressive Strength, $f_c = 4500$ psi



PLAN VIEW



**MID-SECTION VIEW
DRILLED PIER FOUNDATION
(CONCRETE VOLUME: 54.6 CU. YD. TOTAL)**

#9 Reinforcing bars,
306" long,
Equally spaced around inside of ties,
46 Total.

#6 Reinforcing ties,
324.0" long before being bent into circle with
96.00" outer diameter and 6.00" overlap.
Top 2 ties spaced at 5".
Next 12 ties spaced at 6" O.C.
Bottom 2 ties spaced at 5" O.C.
Remainder of ties equally spaced at 9.69" O.C.
38 Total.

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ORIG. DATE: 4/24/2024
DWG. NO: 661442
DWG. PROG: v.1.06
SHEET: 2 OF 3

TITLE:
The Towers, LLC
NTP 74" X 180"
US-KY-5182 / Fairway
Taylor Co., KY

N E L L O
1201 S. Sheridan St.
South Bend, IN 46619
Bus: (574)288-3632
Fax: (574)288-5860



04/26/2024

REV	BY	DATE	DESCRIPTION

Foundation Notes

1. This foundation has been designed for the following reactions.
 Shear: 45.8 kips
 Moment: 6531.5 ft-kips
 Weight: 74.0 kips
2. Foundation design is based on the Geotechnical Report dated 03/27/2024, by Power of Design; Project No. 23-158653.
3. A field inspection shall be performed in order to verify that the actual site soil parameters meet or exceed the assumed soil parameters and that the depth of standard foundations are adequate based on the frost penetration and groundwater depth. Local frost depth must be no deeper than the bottom of the base foundation.
4. Reinforcement shall be deformed and conform to the requirements of ASTM A615 Grade 60 unless otherwise noted. Splices in reinforcement shall not be allowed unless otherwise noted.
5. Welding is prohibited on reinforcing steel and anchorage.
6. Structural fill placed below pad must be compacted in 8" loose lifts to a 98% of maximum dry density at optimum moisture content in accordance with ASTM D698. Backfill must be clean and free of organic and frozen soils and foreign materials.
7. Backfill above foundation should be compacted to 95% of maximum dry density at water content within 2 percent of optimum per ASTM D698. Backfill must be clean and free of organic and frozen soils and foreign materials.
8. Finished grade shall be leveled over the entire foundation footprint. Backfill is recommended to slope to native grade using a 2:1 (H:V) slope.
9. Loose material shall be removed from bottom of excavation prior to concrete placement.
10. Concrete cover from exposed surface of concrete to surface of reinforcement shall not be less than 3".
11. Concrete and reinforcement installation must conform to ACI 318, "Building Code Requirements for Structural Concrete."
12. Concrete shall develop a minimum compressive strength of 4500 psi in 28 days.
13. Concrete shall be placed as soon as practical after excavating to avoid disturbance of bearing and side wall surfaces.
14. Concrete contractor shall be responsible for properly aligning anchor bolts and materials before and after placing concrete, regardless of whether an anchor bolt template is provided.
15. Positive drainage shall be maintained during construction and throughout the life of the facility to minimize the potential for surface water infiltration.
16. Overexcavation of unsuitable soils for compacted backfill placement below footings should extend laterally beyond all edges of the footings at least 12 inches per foot of overexcavation depth below footing base elevation.
17. It shall be the contractor's responsibility to locate and prevent damage to any existing underground utilities, foundations or other buried objects that might be damaged or interfered with during construction of the foundation.
18. It is permissible to utilize a cold joint during construction of a pier and pad type foundation. The cold joint must be located at the interface of the piers with the pad, and contractor shall use a bonding agent suitable for cold joints.
19. Groundwater was not encountered during the geotechnical investigation.
20. Temporary steel casing or drilling slurry may be required for installation of the drilled pier. A clean-out bucket should be used to remove any cuttings and loose soils in the bottom of the shaft excavation.
21. Concrete shall be placed by tremie methods if there is more than 1 inch of water or drilling fluid at the bottom of the shaft excavation or if water infiltration exceeds a rise of 1/4" per minute.
22. Rock conditions were encountered about 6.9 feet bgs in the geotechnical investigation (see geo report for details). The contractor should anticipate difficult excavation below this depth and be prepared with the necessary equipment to remove such material in order to create a level bearing surface. The depth to rock material may vary across the foundation footprint. The entire footing shall bear on leveled, competent rock or bear on a layer of lean concrete (2000 psi) placed in direct contact with competent rock
23. This mat design assumes an ultimate bearing capacity of 8000 psf (allowable bearing capacity of 8000 psf) based on the geotechnical report. The bearing surface shall be inspected prior to concrete placement.
24. During placement, concrete shall be suitably consolidated. Proper curing methods shall be used directly following concrete placement as established by the contractor. Concrete shall develop a minimum compressive strength of 3000 psi prior to backfill and compaction operations, and backfill shall be compacted to a minimum moist unit weight of 110 pcf.

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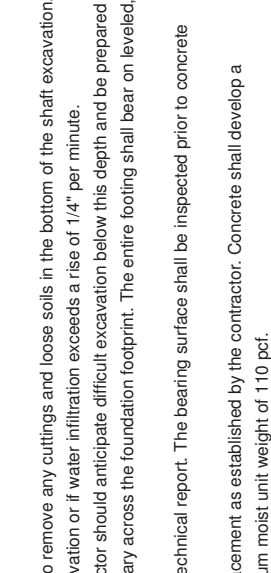
REV	BY	DATE	DESCRIPTION

ORIG. DATE: 4/24/2024
 DWG. PROG: v 1.06

DWG NO: 661442
 SHEET: 3 OF 3

TITLE:
 The Towers, LLC
 NTP 74" X 180"
 US-KY-5182 / Fairway
 Taylor Co., KY

N E L L O
 1201 S. Sheridan St.
 South Bend, IN 46619
 Bus: (574)288-3632
 Fax: (574)288-5860



04/26/2024



N E L L O

Design Supporting Calculations

Sales Order: SO31895
Drawing Number(s)
Tower: 661441
Foundation: 661442
Order Description: NTP 74" x 180' ext 195'
Site Name: US-KY-5182 / Fairway
Location: Taylor County, KY

Prepared For:
Customer: The Towers, LLC
Contact: Christopher Molloy
Date: 4/26/2024



Table of Contents

Tower Analysis - Future - Short form

Tower Analysis - Future - Long form

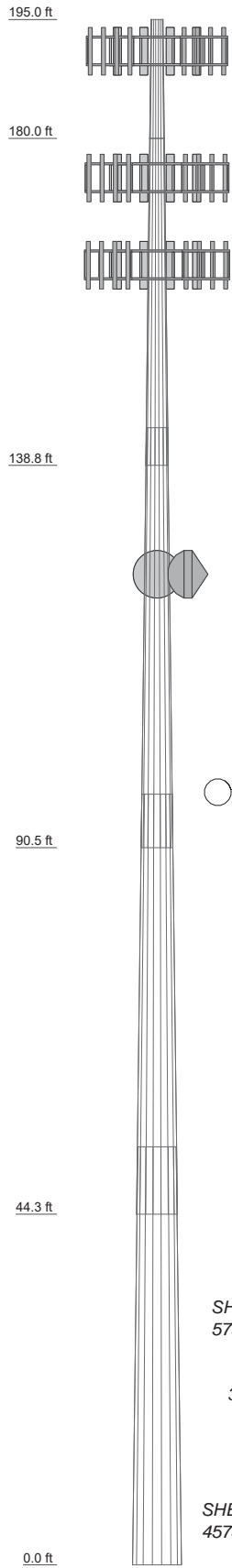
Tower Analysis - Initial - Short form

Tower Analysis - Initial - Long form

Foundation Analysis

Seismic Analysis

Section	1	2	3	4	5
Length (ft)	15.00	41.25	53.00	53.00	52.75
Number of Sides	18	18	18	18	18
Thickness (in)	0.1875	0.2500	0.3125	0.3750	0.4375
Socket Length (ft)		4.75	6.75	8.50	
Top Dia (in)	18.0000	22.4475	32.7698	45.8579	58.3021
Bot Dia (in)	22.4475	34.6781	48.4843	61.5724	73.9425
Grade			A572-65		
Weight (lb)	669.5	3468.8	7932.7	12594.9	18009.5



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
30,000 sq in CaAa	191	Dish Pipe Mount	125
42,000 sq in CaAa	175	Clamp Ring Assembly	125
30,000 sq in CaAa	164	6' Solid w/Radome	125
Dish Pipe Mount	125	6' Solid w/Radome	125

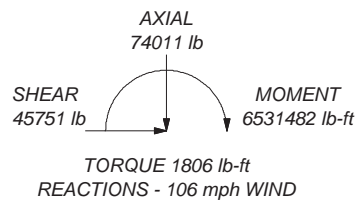
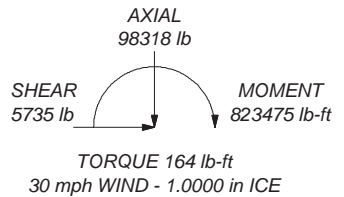
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 106 mph ultimate wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 30 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 91.1%

ALL REACTIONS
ARE FACTORED



Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job: SO31895; Tower 661441; Foundation 661442
	Project: NP 180' - US-KY-5182 / Fairway - Taylor Co., KY
	Client: The Towers, LLC Drawn by: AG App'd:
	Code: TIA-222-H Date: 04/26/24 Scale: NTS
	Path: N:\eri\6614\661441.future.eri Dwg No. E-1

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 1 of 47
	Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:35:58 04/23/24
	Client The Towers, LLC	Designed by AG

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- Tower base elevation above sea level: 0.00 ft.
- Ultimate wind speed of 106 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 30 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity √ Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) √ SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r √ Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. √ Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces √ Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	

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Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	195.00-180.00	15.00	0.00	18	18.0000	22.4475	0.1875	0.7500	A572-65 (65 ksi)
L2	180.00-138.75	41.25	4.75	18	22.4475	34.6781	0.2500	1.0000	A572-65 (65 ksi)
L3	138.75-90.50	53.00	6.75	18	32.7698	48.4843	0.3125	1.2500	A572-65 (65 ksi)
L4	90.50-44.25	53.00	8.50	18	45.8579	61.5724	0.3750	1.5000	A572-65 (65 ksi)
L5	44.25-0.00	52.75		18	58.3021	73.9425	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	18.2488	10.6007	424.9328	6.3234	9.1440	46.4712	850.4248	5.3013	2.8380	15.136
	22.7649	13.2475	829.3181	7.9023	11.4033	72.7260	1659.7274	6.6250	3.6208	19.311
L2	22.7552	17.6137	1096.4695	7.8801	11.4033	96.1535	2194.3819	8.8085	3.5108	14.043
	35.1745	27.3187	4090.9530	12.2220	17.6165	232.2230	8187.2891	13.6620	5.6634	22.653
L3	34.6572	32.1935	4284.7901	11.5223	16.6470	257.3906	8575.2183	16.0998	5.2175	16.696
	49.1840	47.7804	14007.8559	17.1010	24.6300	568.7315	28034.1437	23.8947	7.9832	25.546
L4	48.5397	54.1360	14148.7922	16.1464	23.2958	607.3538	28316.2017	27.0731	7.4110	19.763
	62.4644	72.8402	34464.6619	21.7251	31.2788	1101.8549	68974.6732	36.4270	10.1767	27.138
L5	61.6932	80.3523	33990.8370	20.5419	29.6175	1147.6614	68026.4000	40.1838	9.4912	21.694
	75.0157	102.0709	69674.3741	26.0943	37.5628	1854.8775	139440.427	51.0451	12.2439	27.986

4

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
L1 195.00-180.00				1	1	1.1			
L2 180.00-138.75				1	1	1.1			
L3 138.75-90.50				1	1	1.1			
L4 90.50-44.25				1	1	1.1			
L5 44.25-0.00				1	1	1.1			

Monopole Base Plate Data

Base Plate Data

Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	18
Embedment length	60.0000 in
f _c	4 ksi
Grout space	3.3750 in

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Base Plate Data	
Base plate grade	A572-50
Base plate thickness	2.5000 in
Bolt circle diameter	81.0000 in
Outer diameter	87.0000 in
Inner diameter	70.2500 in
Base plate type	Plain Plate

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C _A A _A		Weight plf
							In Face ft ²	Out Face ft ²	
LDF7-50A (1-5/8 FOAM)	A	No	Yes	Inside Pole	191.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	C	No	Yes	Inside Pole	175.00 - 0.00	18	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	B	No	Yes	Inside Pole	164.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
EW63	C	No	Yes	Inside Pole	125.00 - 0.00	2	No Ice	0.00	0.51
							1/2" Ice	0.00	0.51
							1" Ice	0.00	0.51

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R	A _F	C _A A _A In Face	C _A A _A Out Face	Weight lb
			ft ²	ft ²	ft ²	ft ²	
L1	195.00-180.00	A	0.000	0.000	0.000	0.000	108.24
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	0.00
L2	180.00-138.75	A	0.000	0.000	0.000	0.000	405.90
		B	0.000	0.000	0.000	0.000	248.46
		C	0.000	0.000	0.000	0.000	535.05
L3	138.75-90.50	A	0.000	0.000	0.000	0.000	474.78
		B	0.000	0.000	0.000	0.000	474.78
		C	0.000	0.000	0.000	0.000	747.36
L4	90.50-44.25	A	0.000	0.000	0.000	0.000	455.10
		B	0.000	0.000	0.000	0.000	455.10
		C	0.000	0.000	0.000	0.000	729.83
L5	44.25-0.00	A	0.000	0.000	0.000	0.000	435.42
		B	0.000	0.000	0.000	0.000	435.42
		C	0.000	0.000	0.000	0.000	698.26

Feed Line/Linear Appurtenances Section Areas - With Ice

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	Client The Towers, LLC	Designed by AG

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	195.00-180.00	A	1.190	0.000	0.000	0.000	0.000	108.24
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	0.00
L2	180.00-138.75	A	1.170	0.000	0.000	0.000	0.000	405.90
		B		0.000	0.000	0.000	0.000	248.46
		C		0.000	0.000	0.000	0.000	535.05
L3	138.75-90.50	A	1.131	0.000	0.000	0.000	0.000	474.78
		B		0.000	0.000	0.000	0.000	474.78
		C		0.000	0.000	0.000	0.000	747.36
L4	90.50-44.25	A	1.073	0.000	0.000	0.000	0.000	455.10
		B		0.000	0.000	0.000	0.000	455.10
		C		0.000	0.000	0.000	0.000	729.83
L5	44.25-0.00	A	0.962	0.000	0.000	0.000	0.000	435.42
		B		0.000	0.000	0.000	0.000	435.42
		C		0.000	0.000	0.000	0.000	698.26

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb	
30,000 sq in CaAa	A	None		0.0000	191.00	No Ice	208.00	208.00	3536.00
						1/2" Ice	250.00	250.00	4738.00
						1" Ice	292.00	292.00	5940.00
42,000 sq in CaAa	C	None		0.0000	175.00	No Ice	292.00	292.00	4964.00
						1/2" Ice	350.00	350.00	6652.00
						1" Ice	408.00	408.00	8340.00
30,000 sq in CaAa	B	None		0.0000	164.00	No Ice	208.00	208.00	3536.00
						1/2" Ice	250.00	250.00	4738.00
						1" Ice	292.00	292.00	5940.00
Dish Pipe Mount	B	From Leg	0.00	0.0000	125.00	No Ice	0.00	1.80	103.00
			0.00			1/2" Ice	0.00	2.10	119.00
			0.00			1" Ice	0.00	2.40	135.00
Dish Pipe Mount	A	From Leg	0.00	0.0000	125.00	No Ice	0.00	1.80	103.00
			0.00			1/2" Ice	0.00	2.10	119.00
			0.00			1" Ice	0.00	2.40	135.00
Clamp Ring Assembly	A	None		0.0000	125.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight lb
-------------	-------------	-----------	-------------	---	-------------------------	----------------------	-----------------	------------------------	----------------------------------	--------------

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Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				ft °	°	°	ft	ft	ft ²	lb	
6' Solid w/Radome	A	Paraboloid w/Radome	From Leg	0.00	0.0000		125.00	6.00	No Ice	28.27	162.00
				0.00					1/2" Ice	29.07	321.00
				0.00					1" Ice	29.86	480.00
6' Solid w/Radome	B	Paraboloid w/Radome	From Leg	0.00	0.0000		125.00	6.00	No Ice	28.27	162.00
				0.00					1/2" Ice	29.07	321.00
				0.00					1" Ice	29.86	480.00

Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 195.00-180.00	187.23	1.444	39	25.634	A	0.000	25.634	25.634	100.00	0.000	0.000
					B	0.000	25.634	100.00	0.000	0.000	
					C	0.000	25.634	100.00	0.000	0.000	
L2 180.00-138.75	158.04	1.394	38	99.567	A	0.000	99.567	99.567	100.00	0.000	0.000
					B	0.000	99.567	100.00	0.000	0.000	
					C	0.000	99.567	100.00	0.000	0.000	
L3 138.75-90.50	113.50	1.3	35	168.556	A	0.000	168.556	168.556	100.00	0.000	0.000
					B	0.000	168.556	100.00	0.000	0.000	
					C	0.000	168.556	100.00	0.000	0.000	
L4 90.50-44.25	66.83	1.163	32	213.914	A	0.000	213.914	213.914	100.00	0.000	0.000
					B	0.000	213.914	100.00	0.000	0.000	
					C	0.000	213.914	100.00	0.000	0.000	
L5 44.25-0.00	22.32	0.923	25	252.057	A	0.000	252.057	252.057	100.00	0.000	0.000
					B	0.000	252.057	100.00	0.000	0.000	
					C	0.000	252.057	100.00	0.000	0.000	

Tower Pressure - With Ice

$G_H = 1.100$

Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face	C _A A _A Out Face
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 195.00-180.00	187.23	1.444	3	1.1896	28.607	A	0.000	28.607	28.607	100.00	0.000	0.000
						B	0.000	28.607	100.00	0.000	0.000	
						C	0.000	28.607	100.00	0.000	0.000	
L2 180.00-138.75	158.04	1.394	3	1.1696	107.608	A	0.000	107.608	107.608	100.00	0.000	0.000
						B	0.000	107.608	100.00	0.000	0.000	
						C	0.000	107.608	100.00	0.000	0.000	
L3 138.75-90.50	113.50	1.3	3	1.1315	177.961	A	0.000	177.961	177.961	100.00	0.000	0.000
						B	0.000	177.961	100.00	0.000	0.000	
						C	0.000	177.961	100.00	0.000	0.000	
L4 90.50-44.25	66.83	1.163	3	1.0731	222.636	A	0.000	222.636	222.636	100.00	0.000	0.000
						B	0.000	222.636	100.00	0.000	0.000	
						C	0.000	222.636	100.00	0.000	0.000	
L5 44.25-0.00	22.32	0.923	2	0.9616	259.971	A	0.000	259.971	259.971	100.00	0.000	0.000

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	Client The Towers, LLC	Designed by AG

Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face	C _{AA} Out Face
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
						B	0.000	259.971		100.00	0.000	0.000
						C	0.000	259.971		100.00	0.000	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face	C _{AA} Out Face
ft	ft		psf	ft ²		ft ²	ft ²	ft ²		ft ²	ft ²
L1 195.00-180.00	187.23	1.444	11	25.634	A	0.000	25.634	25.634	100.00	0.000	0.000
					B	0.000	25.634		100.00	0.000	0.000
					C	0.000	25.634		100.00	0.000	0.000
L2 180.00-138.75	158.04	1.394	11	99.567	A	0.000	99.567	99.567	100.00	0.000	0.000
					B	0.000	99.567		100.00	0.000	0.000
					C	0.000	99.567		100.00	0.000	0.000
L3 138.75-90.50	113.50	1.3	10	168.556	A	0.000	168.556	168.556	100.00	0.000	0.000
					B	0.000	168.556		100.00	0.000	0.000
					C	0.000	168.556		100.00	0.000	0.000
L4 90.50-44.25	66.83	1.163	9	213.914	A	0.000	213.914	213.914	100.00	0.000	0.000
					B	0.000	213.914		100.00	0.000	0.000
					C	0.000	213.914		100.00	0.000	0.000
L5 44.25-0.00	22.32	0.923	7	252.057	A	0.000	252.057	252.057	100.00	0.000	0.000
					B	0.000	252.057		100.00	0.000	0.000
					C	0.000	252.057		100.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				psf			ft ²	lb	plf	
L1 195.00-180.00	108.24	669.49	A	1	0.73	39	1	1	25.634	812.35	54.16	C
			B	1	0.73		1	1	25.634			
			C	1	0.73		1	1	25.634			
L2 180.00-138.75	1189.41	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3 138.75-90.50	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	A	1	0.73	32	1	1	213.914	5436.48	117.55	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	A	1	0.73	25	1	1	252.057	5101.46	115.29	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43						OTM	1655049.8 8 lb-ft	19194.05		

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	Client The Towers, LLC	Designed by AG

Tower Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				psf			ft ²	lb	plf	
L1 195.00-180.00	108.24	669.49	A	1	0.73	39	1	1	25.634	812.35	54.16	C
			B	1	0.73		1	1	25.634			
			C	1	0.73		1	1	25.634			
L2 180.00-138.75	1189.41	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3 138.75-90.50	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	A	1	0.73	32	1	1	213.914	5436.48	117.55	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	A	1	0.73	25	1	1	252.057	5101.46	115.29	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43						OTM	1655049.8 8 lb-ft	19194.05		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb				psf			ft ²	lb	plf	
L1 195.00-180.00	108.24	669.49	A	1	0.73	39	1	1	25.634	812.35	54.16	C
			B	1	0.73		1	1	25.634			
			C	1	0.73		1	1	25.634			
L2 180.00-138.75	1189.41	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3 138.75-90.50	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	A	1	0.73	32	1	1	213.914	5436.48	117.55	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	A	1	0.73	25	1	1	252.057	5101.46	115.29	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43						OTM	1655049.8 8 lb-ft	19194.05		

Tower Forces - With Ice - Wind Normal To Face

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 8 of 47
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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 195.00-180.00	108.24	1141.11	A	1	1.2	3	1	1	28.607	119.37	7.96	C
			B	1	1.2		1	1	28.607			
			C	1	1.2		1	1	28.607			
L2 180.00-138.75	1189.41	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L3 138.75-90.50	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L4 90.50-44.25	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
			B	1	1.2		1	1	222.186			
			C	1	1.2		1	1	222.186			
L5 44.25-0.00	1569.11	21599.14	A	1	1.2	2	1	1	259.149	690.61	15.61	C
			B	1	1.2		1	1	259.149			
			C	1	1.2		1	1	259.149			
Sum Weight:	6203.70	54786.46						OTM	231503.36 lb-ft	2652.77		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 195.00-180.00	108.24	1141.11	A	1	1.2	3	1	1	28.607	119.37	7.96	C
			B	1	1.2		1	1	28.607			
			C	1	1.2		1	1	28.607			
L2 180.00-138.75	1189.41	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L3 138.75-90.50	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L4 90.50-44.25	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
			B	1	1.2		1	1	222.186			
			C	1	1.2		1	1	222.186			
L5 44.25-0.00	1569.11	21599.14	A	1	1.2	2	1	1	259.149	690.61	15.61	C
			B	1	1.2		1	1	259.149			
			C	1	1.2		1	1	259.149			
Sum Weight:	6203.70	54786.46						OTM	231503.36 lb-ft	2652.77		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1	108.24	1141.11	A	1	1.2	3	1	1	28.607	119.37	7.96	C

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	Client The Towers, LLC	Designed by AG

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
195.00-180.00			B	1	1.2		1	1	28.607			
			C	1	1.2		1	1	28.607			
L2 180.00-138.75	1189.41	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L3 138.75-90.50	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L4 90.50-44.25	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
			B	1	1.2		1	1	222.186			
			C	1	1.2		1	1	222.186			
L5 44.25-0.00	1569.11	21599.14	A	1	1.2	2	1	1	259.149	690.61	15.61	C
			B	1	1.2		1	1	259.149			
			C	1	1.2		1	1	259.149			
Sum Weight:	6203.70	54786.46						OTM	231503.36 lb-ft	2652.77		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 195.00-180.00	108.24	669.49	A	1	0.73	11	1	1	25.634	232.88	15.53	C
			B	1	0.73		1	1	25.634			
			C	1	0.73		1	1	25.634			
L2 180.00-138.75	1189.41	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3 138.75-90.50	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	A	1	0.73	7	1	1	252.057	1462.45	33.05	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43						OTM	474457.35 lb-ft	5502.41		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	Face	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 195.00-180.00	108.24	669.49	A	1	0.73	11	1	1	25.634	232.88	15.53	C
			B	1	0.73		1	1	25.634			

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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L2 180.00-138.75	1189.41	3468.82	C	1	0.73	11	1	1	25.634	872.39	21.15	C
			A	1	0.73		1	1	99.567			
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3 138.75-90.50	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	A	1	0.73	7	1	1	252.057	1462.45	33.05	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43						OTM	474457.35 lb-ft	5502.41		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 195.00-180.00	108.24	669.49	A	1	0.73	11	1	1	25.634	232.88	15.53	C
			B	1	0.73		1	1	25.634			
			C	1	0.73		1	1	25.634			
L2 180.00-138.75	1189.41	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3 138.75-90.50	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	A	1	0.73	7	1	1	252.057	1462.45	33.05	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43						OTM	474457.35 lb-ft	5502.41		

Mast Vectors - No Ice

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	195.00-180.00	0	Wind Normal	812.35	0.00	-812.35	-152091.78	0.00	0.00
		30	Wind 90	812.35	406.17	-703.51	-131715.34	-76045.89	0.00
		60	Wind 60	812.35	703.51	-406.17	-76045.89	-131715.34	0.00
		90	Wind 90	812.35	812.35	0.00	0.00	-152091.78	0.00

tnxTower

Nello Corporation
 1201 S. Sheridan Street
 South Bend, IN. 46619
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Client	The Towers, LLC	Designed by	AG

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L2	180.00-138.75	120	Wind Normal	812.35	703.51	406.17	76045.89	-131715.34	0.00
		150	Wind 90	812.35	406.17	703.51	131715.34	-76045.89	0.00
		180	Wind 60	812.35	0.00	812.35	152091.78	0.00	0.00
		210	Wind 90	812.35	-406.17	703.51	131715.34	76045.89	0.00
		240	Wind Normal	812.35	-703.51	406.17	76045.89	131715.34	0.00
		270	Wind 90	812.35	-812.35	0.00	0.00	152091.78	0.00
		300	Wind 60	812.35	-703.51	-406.17	-76045.89	131715.34	0.00
		330	Wind 90	812.35	-406.17	-703.51	-131715.34	76045.89	0.00
		0	Wind Normal	3043.15	0.00	-3043.15	-480938.19	0.00	0.00
		30	Wind 90	3043.15	1521.57	-2635.45	-416504.69	-240469.10	0.00
		60	Wind 60	3043.15	2635.45	-1521.57	-240469.10	-416504.69	0.00
		90	Wind 90	3043.15	3043.15	0.00	0.00	-480938.19	0.00
L3	138.75-90.50	120	Wind Normal	3043.15	2635.45	1521.57	240469.10	-416504.69	0.00
		150	Wind 90	3043.15	1521.57	2635.45	416504.69	-240469.10	0.00
		180	Wind 60	3043.15	0.00	3043.15	480938.19	0.00	0.00
		210	Wind 90	3043.15	-1521.57	2635.45	416504.69	240469.10	0.00
		240	Wind Normal	3043.15	-2635.45	1521.57	240469.10	416504.69	0.00
		270	Wind 90	3043.15	-3043.15	0.00	0.00	480938.19	0.00
		300	Wind 60	3043.15	-2635.45	-1521.57	-240469.10	416504.69	0.00
		330	Wind 90	3043.15	-1521.57	-2635.45	-416504.69	240469.10	0.00
		0	Wind Normal	4800.61	0.00	-4800.61	-544859.02	0.00	0.00
		30	Wind 90	4800.61	2400.31	-4157.45	-471861.75	-272429.51	0.00
		60	Wind 60	4800.61	4157.45	-2400.31	-272429.51	-471861.75	0.00
		90	Wind 90	4800.61	4800.61	0.00	0.00	-544859.02	0.00
L4	90.50-44.25	120	Wind Normal	4800.61	4157.45	2400.31	272429.51	-471861.75	0.00
		150	Wind 90	4800.61	2400.31	4157.45	471861.75	-272429.51	0.00
		180	Wind 60	4800.61	0.00	4800.61	544859.02	0.00	0.00
		210	Wind 90	4800.61	-2400.31	4157.45	471861.75	272429.51	0.00
		240	Wind Normal	4800.61	-4157.45	2400.31	272429.51	471861.75	0.00
		270	Wind 90	4800.61	-4800.61	0.00	0.00	544859.02	0.00
		300	Wind 60	4800.61	-4157.45	-2400.31	-272429.51	471861.75	0.00
		330	Wind 90	4800.61	-2400.31	-4157.45	-471861.75	272429.51	0.00
		0	Wind Normal	5436.48	0.00	-5436.48	-363317.64	0.00	0.00
		30	Wind 90	5436.48	2718.24	-4708.13	-314642.31	-181658.82	0.00
		60	Wind 60	5436.48	4708.13	-2718.24	-181658.82	-314642.31	0.00
		90	Wind 90	5436.48	5436.48	0.00	0.00	-363317.64	0.00
L5	44.25-0.00	120	Wind Normal	5436.48	4708.13	2718.24	181658.82	-314642.31	0.00
		150	Wind 90	5436.48	2718.24	4708.13	314642.31	-181658.82	0.00
		180	Wind 60	5436.48	0.00	5436.48	363317.64	0.00	0.00
		210	Wind 90	5436.48	-2718.24	4708.13	314642.31	181658.82	0.00
		240	Wind Normal	5436.48	-4708.13	2718.24	181658.82	314642.31	0.00
		270	Wind 90	5436.48	-5436.48	0.00	0.00	363317.64	0.00
		300	Wind 60	5436.48	-4708.13	-2718.24	-181658.82	314642.31	0.00
		330	Wind 90	5436.48	-2718.24	-4708.13	-314642.31	181658.82	0.00
		0	Wind Normal	5101.46	0.00	-5101.46	-113843.25	0.00	0.00
		30	Wind 90	5101.46	2550.73	-4417.99	-98591.15	-56921.62	0.00
		60	Wind 60	5101.46	4417.99	-2550.73	-56921.62	-98591.15	0.00
		90	Wind 90	5101.46	5101.46	0.00	0.00	-113843.25	0.00

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	Client The Towers, LLC	Designed by AG

Mast Totals - No Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-19194.05	-1655049.88	0.00	0.00
30	9597.03	-16622.54	-1433315.24	-827524.94	0.00
60	16622.54	-9597.03	-827524.94	-1433315.24	0.00
90	19194.05	0.00	0.00	-1655049.88	0.00
120	16622.54	9597.03	827524.94	-1433315.24	0.00
150	9597.03	16622.54	1433315.24	-827524.94	0.00
180	0.00	19194.05	1655049.88	0.00	0.00
210	-9597.03	16622.54	1433315.24	827524.94	0.00
240	-16622.54	9597.03	827524.94	1433315.24	0.00
270	-19194.05	0.00	0.00	1655049.88	0.00
300	-16622.54	-9597.03	-827524.94	1433315.24	0.00
330	-9597.03	-16622.54	-1433315.24	827524.94	0.00

Mast Vectors - With Ice

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	195.00-180.00	0	Wind Normal	119.37	0.00	-119.37	-22349.37	0.00	0.00
		30	Wind 90	119.37	59.69	-103.38	-19355.12	-11174.68	0.00
		60	Wind 60	119.37	103.38	-59.69	-11174.68	-19355.12	0.00
		90	Wind 90	119.37	119.37	0.00	0.00	-22349.37	0.00
		120	Wind Normal	119.37	103.38	59.69	11174.68	-19355.12	0.00
		150	Wind 90	119.37	59.69	103.38	19355.12	-11174.68	0.00
		180	Wind 60	119.37	0.00	119.37	22349.37	0.00	0.00
		210	Wind 90	119.37	-59.69	103.38	19355.12	11174.68	0.00
		240	Wind Normal	119.37	-103.38	59.69	11174.68	19355.12	0.00
		270	Wind 90	119.37	-119.37	0.00	0.00	22349.37	0.00
		300	Wind 60	119.37	-103.38	-59.69	-11174.68	19355.12	0.00
		330	Wind 90	119.37	-59.69	-103.38	-19355.12	11174.68	0.00
		L2	180.00-138.75	0	Wind Normal	433.05	0.00	-433.05	-68439.49
30	Wind 90			433.05	216.53	-375.03	-59270.33	-34219.74	0.00
60	Wind 60			433.05	375.03	-216.53	-34219.74	-59270.33	0.00
90	Wind 90			433.05	433.05	0.00	0.00	-68439.49	0.00
120	Wind Normal			433.05	375.03	216.53	34219.74	-59270.33	0.00
150	Wind 90			433.05	216.53	375.03	59270.33	-34219.74	0.00
180	Wind 60			433.05	0.00	433.05	68439.49	0.00	0.00
210	Wind 90			433.05	-216.53	375.03	59270.33	34219.74	0.00
240	Wind Normal			433.05	-375.03	216.53	34219.74	59270.33	0.00
270	Wind 90			433.05	-433.05	0.00	0.00	68439.49	0.00
300	Wind 60			433.05	-375.03	-216.53	-34219.74	59270.33	0.00
330	Wind 90			433.05	-216.53	-375.03	-59270.33	34219.74	0.00
L3	138.75-90.50			0	Wind Normal	666.22	0.00	-666.22	-75614.76
		30	Wind 90	666.22	333.11	-576.97	-65484.30	-37807.38	0.00
		60	Wind 60	666.22	576.97	-333.11	-37807.38	-65484.30	0.00
		90	Wind 90	666.22	666.22	0.00	0.00	-75614.76	0.00
		120	Wind Normal	666.22	576.97	333.11	37807.38	-65484.30	0.00
		150	Wind 90	666.22	333.11	576.97	65484.30	-37807.38	0.00
		180	Wind 60	666.22	0.00	666.22	75614.76	0.00	0.00
		210	Wind 90	666.22	-333.11	576.97	65484.30	37807.38	0.00
		240	Wind Normal	666.22	-576.97	333.11	37807.38	65484.30	0.00
		270	Wind 90	666.22	-666.22	0.00	0.00	75614.76	0.00
		300	Wind 60	666.22	-576.97	-333.11	-37807.38	65484.30	0.00
		330	Wind 90	666.22	-333.11	-576.97	-65484.30	37807.38	0.00

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	Client The Towers, LLC	Designed by AG

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L4	90.50-44.25	0	Wind Normal	743.51	0.00	-743.51	-49688.16	0.00	0.00
		30	Wind 90	743.51	371.75	-643.90	-43031.21	-24844.08	0.00
		60	Wind 60	743.51	643.90	-371.75	-24844.08	-43031.21	0.00
		90	Wind 90	743.51	743.51	0.00	0.00	-49688.16	0.00
		120	Wind Normal	743.51	643.90	371.75	24844.08	-43031.21	0.00
		150	Wind 90	743.51	371.75	643.90	43031.21	-24844.08	0.00
		180	Wind 60	743.51	0.00	743.51	49688.16	0.00	0.00
		210	Wind 90	743.51	-371.75	643.90	43031.21	24844.08	0.00
		240	Wind Normal	743.51	-643.90	371.75	24844.08	43031.21	0.00
		270	Wind 90	743.51	-743.51	0.00	0.00	49688.16	0.00
		300	Wind 60	743.51	-643.90	-371.75	-24844.08	43031.21	0.00
		330	Wind 90	743.51	-371.75	-643.90	-43031.21	24844.08	0.00
L5	44.25-0.00	0	Wind Normal	690.61	0.00	-690.61	-15411.59	0.00	0.00
		30	Wind 90	690.61	345.31	-598.09	-13346.82	-7705.79	0.00
		60	Wind 60	690.61	598.09	-345.31	-7705.79	-13346.82	0.00
		90	Wind 90	690.61	690.61	0.00	0.00	-15411.59	0.00
		120	Wind Normal	690.61	598.09	345.31	7705.79	-13346.82	0.00
		150	Wind 90	690.61	345.31	598.09	13346.82	-7705.79	0.00
		180	Wind 60	690.61	0.00	690.61	15411.59	0.00	0.00
		210	Wind 90	690.61	-345.31	598.09	13346.82	7705.79	0.00
		240	Wind Normal	690.61	-598.09	345.31	7705.79	13346.82	0.00
		270	Wind 90	690.61	-690.61	0.00	0.00	15411.59	0.00
		300	Wind 60	690.61	-598.09	-345.31	-7705.79	13346.82	0.00
		330	Wind 90	690.61	-345.31	-598.09	-13346.82	7705.79	0.00

Mast Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-2652.77	-231503.36	0.00	0.00
30	1326.38	-2297.36	-200487.79	-115751.68	0.00
60	2297.36	-1326.38	-115751.68	-200487.79	0.00
90	2652.77	0.00	0.00	-231503.36	0.00
120	2297.36	1326.38	115751.68	-200487.79	0.00
150	1326.38	2297.36	200487.79	-115751.68	0.00
180	0.00	2652.77	231503.36	0.00	0.00
210	-1326.38	2297.36	200487.79	115751.68	0.00
240	-2297.36	1326.38	115751.68	200487.79	0.00
270	-2652.77	0.00	0.00	231503.36	0.00
300	-2297.36	-1326.38	-115751.68	200487.79	0.00
330	-1326.38	-2297.36	-200487.79	115751.68	0.00

Mast Vectors - Service

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	195.00-180.00	0	Wind Normal	232.88	0.00	-232.88	-43600.54	0.00	0.00
		30	Wind 90	232.88	116.44	-201.68	-37759.17	-21800.27	0.00
		60	Wind 60	232.88	201.68	-116.44	-21800.27	-37759.17	0.00
		90	Wind 90	232.88	232.88	0.00	0.00	-43600.54	0.00

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Client	The Towers, LLC	Designed by	AG

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L2	180.00-138.75	120	Wind Normal	232.88	201.68	116.44	21800.27	-37759.17	0.00
		150	Wind 90	232.88	116.44	201.68	37759.17	-21800.27	0.00
		180	Wind 60	232.88	0.00	232.88	43600.54	0.00	0.00
		210	Wind 90	232.88	-116.44	201.68	37759.17	21800.27	0.00
		240	Wind Normal	232.88	-201.68	116.44	21800.27	37759.17	0.00
		270	Wind 90	232.88	-232.88	0.00	0.00	43600.54	0.00
		300	Wind 60	232.88	-201.68	-116.44	-21800.27	37759.17	0.00
		330	Wind 90	232.88	-116.44	-201.68	-37759.17	21800.27	0.00
		0	Wind Normal	872.39	0.00	-872.39	-137871.77	0.00	0.00
		30	Wind 90	872.39	436.19	-755.51	-119400.46	-68935.89	0.00
		60	Wind 60	872.39	755.51	-436.19	-68935.89	-119400.46	0.00
		90	Wind 90	872.39	872.39	0.00	0.00	-137871.77	0.00
L3	138.75-90.50	120	Wind Normal	872.39	755.51	436.19	68935.89	-119400.46	0.00
		150	Wind 90	872.39	436.19	755.51	119400.46	-68935.89	0.00
		180	Wind 60	872.39	0.00	872.39	137871.77	0.00	0.00
		210	Wind 90	872.39	-436.19	755.51	119400.46	68935.89	0.00
		240	Wind Normal	872.39	-755.51	436.19	68935.89	119400.46	0.00
		270	Wind 90	872.39	-872.39	0.00	0.00	137871.77	0.00
		300	Wind 60	872.39	-755.51	-436.19	-68935.89	119400.46	0.00
		330	Wind 90	872.39	-436.19	-755.51	-119400.46	68935.89	0.00
		0	Wind Normal	1376.20	0.00	-1376.20	-156196.12	0.00	0.00
		30	Wind 90	1376.20	688.10	-1191.83	-135269.81	-78098.06	0.00
		60	Wind 60	1376.20	1191.83	-688.10	-78098.06	-135269.81	0.00
		90	Wind 90	1376.20	1376.20	0.00	0.00	-156196.12	0.00
L4	90.50-44.25	120	Wind Normal	1376.20	1191.83	688.10	78098.06	-135269.81	0.00
		150	Wind 90	1376.20	688.10	1191.83	135269.81	-78098.06	0.00
		180	Wind 60	1376.20	0.00	1376.20	156196.12	0.00	0.00
		210	Wind 90	1376.20	-688.10	1191.83	135269.81	78098.06	0.00
		240	Wind Normal	1376.20	-1191.83	688.10	78098.06	135269.81	0.00
		270	Wind 90	1376.20	-1376.20	0.00	0.00	156196.12	0.00
		300	Wind 60	1376.20	-1191.83	-688.10	-78098.06	135269.81	0.00
		330	Wind 90	1376.20	-688.10	-1191.83	-135269.81	78098.06	0.00
		0	Wind Normal	1558.49	0.00	-1558.49	-104153.19	0.00	0.00
		30	Wind 90	1558.49	779.25	-1349.69	-90199.31	-52076.59	0.00
		60	Wind 60	1558.49	1349.69	-779.25	-52076.59	-90199.31	0.00
		90	Wind 90	1558.49	1558.49	0.00	0.00	-104153.19	0.00
L5	44.25-0.00	120	Wind Normal	1558.49	1349.69	779.25	52076.59	-90199.31	0.00
		150	Wind 90	1558.49	779.25	1349.69	90199.31	-52076.59	0.00
		180	Wind 60	1558.49	0.00	1558.49	104153.19	0.00	0.00
		210	Wind 90	1558.49	-779.25	1349.69	90199.31	52076.59	0.00
		240	Wind Normal	1558.49	-1349.69	779.25	52076.59	90199.31	0.00
		270	Wind 90	1558.49	-1558.49	0.00	0.00	104153.19	0.00
		300	Wind 60	1558.49	-1349.69	-779.25	-52076.59	90199.31	0.00
		330	Wind 90	1558.49	-779.25	-1349.69	-90199.31	52076.59	0.00
		0	Wind Normal	1462.45	0.00	-1462.45	-32635.73	0.00	0.00
		30	Wind 90	1462.45	731.22	-1266.52	-28263.37	-16317.87	0.00
		60	Wind 60	1462.45	1266.52	-731.22	-16317.87	-28263.37	0.00
		90	Wind 90	1462.45	1462.45	0.00	0.00	-32635.73	0.00
120	Wind Normal	1462.45	1266.52	731.22	16317.87	-28263.37	0.00		
150	Wind 90	1462.45	731.22	1266.52	28263.37	-16317.87	0.00		
180	Wind 60	1462.45	0.00	1462.45	32635.73	0.00	0.00		
210	Wind 90	1462.45	-731.22	1266.52	28263.37	16317.87	0.00		
240	Wind Normal	1462.45	-1266.52	731.22	16317.87	28263.37	0.00		
270	Wind 90	1462.45	-1462.45	0.00	0.00	32635.73	0.00		
300	Wind 60	1462.45	-1266.52	-731.22	-16317.87	28263.37	0.00		
330	Wind 90	1462.45	-731.22	-1266.52	-28263.37	16317.87	0.00		

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	Client The Towers, LLC	Designed by AG

Mast Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-5502.41	-474457.35	0.00	0.00
30	2751.20	-4765.22	-410892.12	-237228.67	0.00
60	4765.22	-2751.20	-237228.67	-410892.12	0.00
90	5502.41	0.00	0.00	-474457.35	0.00
120	4765.22	2751.20	237228.67	-410892.12	0.00
150	2751.20	4765.22	410892.12	-237228.67	0.00
180	0.00	5502.41	474457.35	0.00	0.00
210	-2751.20	4765.22	410892.12	237228.67	0.00
240	-4765.22	2751.20	237228.67	410892.12	0.00
270	-5502.41	0.00	0.00	474457.35	0.00
300	-4765.22	-2751.20	-237228.67	410892.12	0.00
330	-2751.20	-4765.22	-410892.12	237228.67	0.00

Discrete Appurtenance Pressures - No Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	191.00	1.450	40	208.00	208.00
42,000 sq in CaAa	0.0000	4964.00	0.00	0.00	175.00	1.424	39	292.00	292.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	164.00	1.405	38	208.00	208.00
Dish Pipe Mount	120.0000	103.00	1.38	0.80	125.00	1.326	36	0.00	1.80
Dish Pipe Mount	0.0000	103.00	0.00	-1.59	125.00	1.326	36	0.00	1.80
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	125.00	1.326	36	0.01	0.01
Sum Weight:		12473.00							

Discrete Appurtenance Vectors - No Ice

30,000 sq in CaAa - Elevation 191 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	7435.55	0.00	0.00	-7435.55	-1420189.70	0.00	0.00
30	7435.55	0.00	3717.77	-6439.37	-1229920.36	-710094.85	0.00
60	7435.55	0.00	6439.37	-3717.77	-710094.85	-1229920.36	0.00
90	7435.55	0.00	7435.55	0.00	0.00	-1420189.70	0.00
120	7435.55	0.00	6439.37	3717.77	710094.85	-1229920.36	0.00
150	7435.55	0.00	3717.77	6439.37	1229920.36	-710094.85	0.00
180	7435.55	0.00	0.00	7435.55	1420189.70	0.00	0.00
210	7435.55	0.00	-3717.77	6439.37	1229920.36	710094.85	0.00
240	7435.55	0.00	-6439.37	3717.77	710094.85	1229920.36	0.00
270	7435.55	0.00	-7435.55	0.00	0.00	1420189.70	0.00
300	7435.55	0.00	-6439.37	-3717.77	-710094.85	1229920.36	0.00
330	7435.55	0.00	-3717.77	-6439.37	-1229920.36	710094.85	0.00

42,000 sq in CaAa - Elevation 175 - None C

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	Client	The Towers, LLC	Designed by	AG

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	10247.87	0.00	0.00	-10247.87	-1793376.78	0.00	0.00
30	10247.87	0.00	5123.93	-8874.91	-1553109.85	-896688.39	0.00
60	10247.87	0.00	8874.91	-5123.93	-896688.39	-1553109.85	0.00
90	10247.87	0.00	10247.87	0.00	0.00	-1793376.78	0.00
120	10247.87	0.00	8874.91	5123.93	896688.39	-1553109.85	0.00
150	10247.87	0.00	5123.93	8874.91	1553109.85	-896688.39	0.00
180	10247.87	0.00	0.00	10247.87	1793376.78	0.00	0.00
210	10247.87	0.00	-5123.93	8874.91	1553109.85	896688.39	0.00
240	10247.87	0.00	-8874.91	5123.93	896688.39	1553109.85	0.00
270	10247.87	0.00	-10247.87	0.00	0.00	1793376.78	0.00
300	10247.87	0.00	-8874.91	-5123.93	-896688.39	1553109.85	0.00
330	10247.87	0.00	-5123.93	-8874.91	-1553109.85	896688.39	0.00

30,000 sq in CaAa - Elevation 164 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	7200.76	0.00	0.00	-7200.76	-1180924.69	0.00	0.00
30	7200.76	0.00	3600.38	-6236.04	-1022710.78	-590462.35	0.00
60	7200.76	0.00	6236.04	-3600.38	-590462.35	-1022710.78	0.00
90	7200.76	0.00	7200.76	0.00	0.00	-1180924.69	0.00
120	7200.76	0.00	6236.04	3600.38	590462.35	-1022710.78	0.00
150	7200.76	0.00	3600.38	6236.04	1022710.78	-590462.35	0.00
180	7200.76	0.00	0.00	7200.76	1180924.69	0.00	0.00
210	7200.76	0.00	-3600.38	6236.04	1022710.78	590462.35	0.00
240	7200.76	0.00	-6236.04	3600.38	590462.35	1022710.78	0.00
270	7200.76	0.00	-7200.76	0.00	0.00	1180924.69	0.00
300	7200.76	0.00	-6236.04	-3600.38	-590462.35	1022710.78	0.00
330	7200.76	0.00	-3600.38	-6236.04	-1022710.78	590462.35	0.00

Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	62.16	31.08	-53.83	-6646.39	-4026.87	99.07
30	0.00	71.77	35.89	-62.16	-7687.29	-4627.83	114.40
60	0.00	62.16	31.08	-53.83	-6646.39	-4026.87	99.07
90	0.00	35.89	17.94	-31.08	-3802.60	-2385.01	57.20
120	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
150	0.00	35.89	-17.94	31.08	3966.78	2100.64	-57.20
180	0.00	62.16	-31.08	53.83	6810.57	3742.51	-99.07
210	0.00	71.77	-35.89	62.16	7851.46	4343.47	-114.40
240	0.00	62.16	-31.08	53.83	6810.57	3742.51	-99.07
270	0.00	35.89	-17.94	31.08	3966.78	2100.64	-57.20
300	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
330	0.00	35.89	17.94	-31.08	-3802.60	-2385.01	57.20

Dish Pipe Mount - Elevation 125 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
30	0.00	35.89	35.89	0.00	-164.18	-4485.65	-57.20
60	0.00	62.16	62.16	0.00	-164.18	-7769.38	-99.07
90	0.00	71.77	71.77	0.00	-164.18	-8971.30	-114.40

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	Client	The Towers, LLC	Designed by	AG

Dish Pipe Mount - Elevation 125 - From Leg A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
120	0.00	62.16	62.16	0.00	-164.18	-7769.38	-99.07
150	0.00	35.89	35.89	0.00	-164.18	-4485.65	-57.20
180	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
210	0.00	35.89	-35.89	0.00	-164.18	4485.65	57.20
240	0.00	62.16	-62.16	0.00	-164.18	7769.38	99.07
270	0.00	71.77	-71.77	0.00	-164.18	8971.30	114.40
300	0.00	62.16	-62.16	0.00	-164.18	7769.38	99.07
330	0.00	35.89	-35.89	0.00	-164.18	4485.65	57.20

Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.40	0.00	0.00	-0.40	-49.84	0.00	0.00
30	0.40	0.00	0.20	-0.35	-43.16	-24.92	0.00
60	0.40	0.00	0.35	-0.20	-24.92	-43.16	0.00
90	0.40	0.00	0.40	0.00	0.00	-49.84	0.00
120	0.40	0.00	0.35	0.20	24.92	-43.16	0.00
150	0.40	0.00	0.20	0.35	43.16	-24.92	0.00
180	0.40	0.00	0.00	0.40	49.84	0.00	0.00
210	0.40	0.00	-0.20	0.35	43.16	24.92	0.00
240	0.40	0.00	-0.35	0.20	24.92	43.16	0.00
270	0.40	0.00	-0.40	0.00	0.00	49.84	0.00
300	0.40	0.00	-0.35	-0.20	-24.92	43.16	0.00
330	0.40	0.00	-0.20	-0.35	-43.16	24.92	0.00

Discrete Appurtenance Totals - No Ice

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	31.08	-24938.40	-4401351.57	-4026.87	99.07
30	12514.06	-21612.83	-3813635.61	-2206383.99	57.20
60	21643.91	-12496.12	-2204081.07	-3817580.39	0.00
90	24974.29	-31.08	-3966.78	-4405897.32	-57.20
120	21612.83	12442.29	2197188.41	-3813695.71	-99.07
150	12460.23	21581.75	3809586.75	-2199655.51	-114.40
180	-31.08	24938.40	4401187.39	3742.51	-99.07
210	-12514.06	21612.83	3813471.44	2206099.62	-57.20
240	-21643.91	12496.12	2203916.89	3817296.03	0.00
270	-24974.29	31.08	3802.60	4405612.95	57.20
300	-21612.83	-12442.29	-2197352.59	3813411.34	99.07
330	-12460.23	-21581.75	-3809750.93	2199371.15	114.40

Discrete Appurtenance Pressures - With Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K_z	q_z psf	C_{AaC} Front ft ²	C_{AaC} Side ft ²	t_z in
30,000 sq in CaAa	0.0000	6401.41	0.00	0.00	191.00	1.450	3	308.12	308.12	1.1919

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Client	The Towers, LLC	Designed by	AG

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²	t _z in
42,000 sq in CaAa	0.0000	8952.92	0.00	0.00	175.00	1.424	3	429.06	429.06	1.1816
30,000 sq in CaAa	0.0000	6358.07	0.00	0.00	164.00	1.405	3	306.61	306.61	1.1739
Dish Pipe Mount	120.0000	139.56	1.38	0.80	125.00	1.326	3	0.00	2.49	1.1425
Dish Pipe Mount	0.0000	139.56	0.00	-1.59	125.00	1.326	3	0.00	2.49	1.1425
Clamp Ring Assembly	0.0000	480.62	0.00	0.00	125.00	1.326	3	0.01	0.01	1.1425
Sum Weight:		22472.12								

Discrete Appurtenance Vectors - With Ice

30,000 sq in CaAa - Elevation 191 - None A

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	882.27	0.00	0.00	-882.27	-168514.42	0.00	0.00
30	882.27	0.00	441.14	-764.07	-145937.77	-84257.21	0.00
60	882.27	0.00	764.07	-441.14	-84257.21	-145937.77	0.00
90	882.27	0.00	882.27	0.00	0.00	-168514.42	0.00
120	882.27	0.00	764.07	441.14	84257.21	-145937.77	0.00
150	882.27	0.00	441.14	764.07	145937.77	-84257.21	0.00
180	882.27	0.00	0.00	882.27	168514.42	0.00	0.00
210	882.27	0.00	-441.14	764.07	145937.77	84257.21	0.00
240	882.27	0.00	-764.07	441.14	84257.21	145937.77	0.00
270	882.27	0.00	-882.27	0.00	0.00	168514.42	0.00
300	882.27	0.00	-764.07	-441.14	-84257.21	145937.77	0.00
330	882.27	0.00	-441.14	-764.07	-145937.77	84257.21	0.00

42,000 sq in CaAa - Elevation 175 - None C

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	1206.14	0.00	0.00	-1206.14	-211075.29	0.00	0.00
30	1206.14	0.00	603.07	-1044.55	-182796.56	-105537.64	0.00
60	1206.14	0.00	1044.55	-603.07	-105537.64	-182796.56	0.00
90	1206.14	0.00	1206.14	0.00	0.00	-211075.29	0.00
120	1206.14	0.00	1044.55	603.07	105537.64	-182796.56	0.00
150	1206.14	0.00	603.07	1044.55	182796.56	-105537.64	0.00
180	1206.14	0.00	0.00	1206.14	211075.29	0.00	0.00
210	1206.14	0.00	-603.07	1044.55	182796.56	105537.64	0.00
240	1206.14	0.00	-1044.55	603.07	105537.64	182796.56	0.00
270	1206.14	0.00	-1206.14	0.00	0.00	211075.29	0.00
300	1206.14	0.00	-1044.55	-603.07	-105537.64	182796.56	0.00
330	1206.14	0.00	-603.07	-1044.55	-182796.56	105537.64	0.00

30,000 sq in CaAa - Elevation 164 - None B

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	850.22	0.00	0.00	-850.22	-139435.44	0.00	0.00
30	850.22	0.00	425.11	-736.31	-120754.63	-69717.72	0.00
60	850.22	0.00	736.31	-425.11	-69717.72	-120754.63	0.00
90	850.22	0.00	850.22	0.00	0.00	-139435.44	0.00
120	850.22	0.00	736.31	425.11	69717.72	-120754.63	0.00
150	850.22	0.00	425.11	736.31	120754.63	-69717.72	0.00

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30,000 sq in CaAa - Elevation 164 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
180	850.22	0.00	0.00	850.22	139435.44	0.00	0.00
210	850.22	0.00	-425.11	736.31	120754.63	69717.72	0.00
240	850.22	0.00	-736.31	425.11	69717.72	120754.63	0.00
270	850.22	0.00	-850.22	0.00	0.00	139435.44	0.00
300	850.22	0.00	-736.31	-425.11	-69717.72	120754.63	0.00
330	850.22	0.00	-425.11	-736.31	-120754.63	69717.72	0.00

Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	6.87	3.44	-5.95	-632.97	-622.31	10.96
30	0.00	7.94	3.97	-6.87	-748.09	-688.77	12.65
60	0.00	6.87	3.44	-5.95	-632.97	-622.31	10.96
90	0.00	3.97	1.98	-3.44	-318.43	-440.71	6.33
120	0.00	0.00	0.00	0.00	111.23	-192.65	0.00
150	0.00	3.97	-1.98	3.44	540.88	55.42	-6.33
180	0.00	6.87	-3.44	5.95	855.42	237.01	-10.96
210	0.00	7.94	-3.97	6.87	970.54	303.48	-12.65
240	0.00	6.87	-3.44	5.95	855.42	237.01	-10.96
270	0.00	3.97	-1.98	3.44	540.88	55.42	-6.33
300	0.00	0.00	0.00	0.00	111.23	-192.65	0.00
330	0.00	3.97	1.98	-3.44	-318.43	-440.71	6.33

Dish Pipe Mount - Elevation 125 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	0.00	0.00	0.00	-222.45	0.00	0.00
30	0.00	3.97	3.97	0.00	-222.45	-496.13	-6.33
60	0.00	6.87	6.87	0.00	-222.45	-859.32	-10.96
90	0.00	7.94	7.94	0.00	-222.45	-992.25	-12.65
120	0.00	6.87	6.87	0.00	-222.45	-859.32	-10.96
150	0.00	3.97	3.97	0.00	-222.45	-496.13	-6.33
180	0.00	0.00	0.00	0.00	-222.45	0.00	0.00
210	0.00	3.97	-3.97	0.00	-222.45	496.13	6.33
240	0.00	6.87	-6.87	0.00	-222.45	859.32	10.96
270	0.00	7.94	-7.94	0.00	-222.45	992.25	12.65
300	0.00	6.87	-6.87	0.00	-222.45	859.32	10.96
330	0.00	3.97	-3.97	0.00	-222.45	496.13	6.33

Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.03	0.00	0.00	-0.03	-3.99	0.00	0.00
30	0.03	0.00	0.02	-0.03	-3.46	-2.00	0.00
60	0.03	0.00	0.03	-0.02	-2.00	-3.46	0.00
90	0.03	0.00	0.03	0.00	0.00	-3.99	0.00
120	0.03	0.00	0.03	0.02	2.00	-3.46	0.00
150	0.03	0.00	0.02	0.03	3.46	-2.00	0.00
180	0.03	0.00	0.00	0.03	3.99	0.00	0.00
210	0.03	0.00	-0.02	0.03	3.46	2.00	0.00
240	0.03	0.00	-0.03	0.02	2.00	3.46	0.00

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Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
270	0.03	0.00	-0.03	0.00	0.00	3.99	0.00
300	0.03	0.00	-0.03	-0.02	-2.00	3.46	0.00
330	0.03	0.00	-0.02	-0.03	-3.46	2.00	0.00

Discrete Appurtenance Totals - With Ice

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	3.44	-2944.62	-519884.56	-622.31	10.96
30	1477.27	-2551.83	-450462.96	-260699.47	6.33
60	2555.27	-1475.29	-260369.99	-450974.04	0.00
90	2948.59	-3.44	-540.88	-520462.11	-6.33
120	2551.83	1469.33	259403.34	-450544.39	-10.96
150	1471.32	2548.40	449810.85	-259955.28	-12.65
180	-3.44	2944.62	519662.10	237.01	-10.96
210	-1477.27	2551.83	450240.51	260314.18	-6.33
240	-2555.27	1475.29	260147.54	450588.75	0.00
270	-2948.59	3.44	318.43	520076.81	6.33
300	-2551.83	-1469.33	-259625.79	450159.09	10.96
330	-1471.32	-2548.40	-450033.30	259569.99	12.65

Discrete Appurtenance Pressures - Service $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K_z	q_z psf	C_{AAc} Front ft ²	C_{AAc} Side ft ²
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	191.00	1.450	11	208.00	208.00
42,000 sq in CaAa	0.0000	4964.00	0.00	0.00	175.00	1.424	11	292.00	292.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	164.00	1.405	11	208.00	208.00
Dish Pipe Mount	120.0000	103.00	1.38	0.80	125.00	1.326	10	0.00	1.80
Dish Pipe Mount	0.0000	103.00	0.00	-1.59	125.00	1.326	10	0.00	1.80
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	125.00	1.326	10	0.01	0.01
Sum		12473.00							
Weight:									

Discrete Appurtenance Vectors - Service

30,000 sq in CaAa - Elevation 191 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	2131.57	0.00	0.00	-2131.57	-407129.38	0.00	0.00
30	2131.57	0.00	1065.78	-1845.99	-352584.39	-203564.69	0.00
60	2131.57	0.00	1845.99	-1065.78	-203564.69	-352584.39	0.00
90	2131.57	0.00	2131.57	0.00	0.00	-407129.38	0.00
120	2131.57	0.00	1845.99	1065.78	203564.69	-352584.39	0.00
150	2131.57	0.00	1065.78	1845.99	352584.39	-203564.69	0.00
180	2131.57	0.00	0.00	2131.57	407129.38	0.00	0.00

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30,000 sq in CaAa - Elevation 191 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
210	2131.57	0.00	-1065.78	1845.99	352584.39	203564.69	0.00
240	2131.57	0.00	-1845.99	1065.78	203564.69	352584.39	0.00
270	2131.57	0.00	-2131.57	0.00	0.00	407129.38	0.00
300	2131.57	0.00	-1845.99	-1065.78	-203564.69	352584.39	0.00
330	2131.57	0.00	-1065.78	-1845.99	-352584.39	203564.69	0.00

42,000 sq in CaAa - Elevation 175 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	2937.78	0.00	0.00	-2937.78	-514111.87	0.00	0.00
30	2937.78	0.00	1468.89	-2544.19	-445233.94	-257055.94	0.00
60	2937.78	0.00	2544.19	-1468.89	-257055.94	-445233.94	0.00
90	2937.78	0.00	2937.78	0.00	0.00	-514111.87	0.00
120	2937.78	0.00	2544.19	1468.89	257055.94	-445233.94	0.00
150	2937.78	0.00	1468.89	2544.19	445233.94	-257055.94	0.00
180	2937.78	0.00	0.00	2937.78	514111.87	0.00	0.00
210	2937.78	0.00	-1468.89	2544.19	445233.94	257055.94	0.00
240	2937.78	0.00	-2544.19	1468.89	257055.94	445233.94	0.00
270	2937.78	0.00	-2937.78	0.00	0.00	514111.87	0.00
300	2937.78	0.00	-2544.19	-1468.89	-257055.94	445233.94	0.00
330	2937.78	0.00	-1468.89	-2544.19	-445233.94	257055.94	0.00

30,000 sq in CaAa - Elevation 164 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	2064.26	0.00	0.00	-2064.26	-338538.68	0.00	0.00
30	2064.26	0.00	1032.13	-1787.70	-293183.10	-169269.34	0.00
60	2064.26	0.00	1787.70	-1032.13	-169269.34	-293183.10	0.00
90	2064.26	0.00	2064.26	0.00	0.00	-338538.68	0.00
120	2064.26	0.00	1787.70	1032.13	169269.34	-293183.10	0.00
150	2064.26	0.00	1032.13	1787.70	293183.10	-169269.34	0.00
180	2064.26	0.00	0.00	2064.26	338538.68	0.00	0.00
210	2064.26	0.00	-1032.13	1787.70	293183.10	169269.34	0.00
240	2064.26	0.00	-1787.70	1032.13	169269.34	293183.10	0.00
270	2064.26	0.00	-2064.26	0.00	0.00	338538.68	0.00
300	2064.26	0.00	-1787.70	-1032.13	-169269.34	293183.10	0.00
330	2064.26	0.00	-1032.13	-1787.70	-293183.10	169269.34	0.00

Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	17.82	8.91	-15.43	-1846.78	-1255.82	28.40
30	0.00	20.57	10.29	-17.82	-2145.18	-1428.10	32.80
60	0.00	17.82	8.91	-15.43	-1846.78	-1255.82	28.40
90	0.00	10.29	5.14	-8.91	-1031.54	-785.14	16.40
120	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
150	0.00	10.29	-5.14	8.91	1195.72	500.77	-16.40
180	0.00	17.82	-8.91	15.43	2010.96	971.45	-28.40
210	0.00	20.57	-10.29	17.82	2309.36	1143.73	-32.80
240	0.00	17.82	-8.91	15.43	2010.96	971.45	-28.40
270	0.00	10.29	-5.14	8.91	1195.72	500.77	-16.40

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	Client	The Towers, LLC	Designed by	AG

Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
300	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
330	0.00	10.29	5.14	-8.91	-1031.54	-785.14	16.40

Dish Pipe Mount - Elevation 125 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
30	0.00	10.29	10.29	0.00	-164.18	-1285.91	-16.40
60	0.00	17.82	17.82	0.00	-164.18	-2227.27	-28.40
90	0.00	20.57	20.57	0.00	-164.18	-2571.83	-32.80
120	0.00	17.82	17.82	0.00	-164.18	-2227.27	-28.40
150	0.00	10.29	10.29	0.00	-164.18	-1285.91	-16.40
180	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
210	0.00	10.29	-10.29	0.00	-164.18	1285.91	16.40
240	0.00	17.82	-17.82	0.00	-164.18	2227.27	28.40
270	0.00	20.57	-20.57	0.00	-164.18	2571.83	32.80
300	0.00	17.82	-17.82	0.00	-164.18	2227.27	28.40
330	0.00	10.29	-10.29	0.00	-164.18	1285.91	16.40

Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.11	0.00	0.00	-0.11	-14.29	0.00	0.00
30	0.11	0.00	0.06	-0.10	-12.37	-7.14	0.00
60	0.11	0.00	0.10	-0.06	-7.14	-12.37	0.00
90	0.11	0.00	0.11	0.00	0.00	-14.29	0.00
120	0.11	0.00	0.10	0.06	7.14	-12.37	0.00
150	0.11	0.00	0.06	0.10	12.37	-7.14	0.00
180	0.11	0.00	0.00	0.11	14.29	0.00	0.00
210	0.11	0.00	-0.06	0.10	12.37	7.14	0.00
240	0.11	0.00	-0.10	0.06	7.14	12.37	0.00
270	0.11	0.00	-0.11	0.00	0.00	14.29	0.00
300	0.11	0.00	-0.10	-0.06	-7.14	12.37	0.00
330	0.11	0.00	-0.06	-0.10	-12.37	7.14	0.00

Discrete Appurtenance Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	8.91	-7149.16	-1261805.18	-1255.82	28.40
30	3587.44	-6195.80	-1093323.15	-632611.12	16.40
60	6204.71	-3582.29	-631908.07	-1094496.88	0.00
90	7159.44	-8.91	-1195.72	-1263151.19	-16.40
120	6195.80	3566.86	629815.02	-1093383.25	-28.40
150	3572.01	6186.90	1092045.34	-630682.25	-32.80
180	-8.91	7149.16	1261641.00	971.45	-28.40
210	-3587.44	6195.80	1093158.98	632326.75	-16.40
240	-6204.71	3582.29	631743.89	1094212.52	0.00
270	-7159.44	8.91	1031.54	1262866.82	16.40

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Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
300	-6195.80	-3566.86	-629979.20	1093098.88	28.40
330	-3572.01	-6186.90	-1092209.52	630397.89	32.80

Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
125.00	6' Solid w/Radome	0.0000	162.00	0.00	-1.59	1.326	28.27	36
125.00	6' Solid w/Radome	120.0000	162.00	1.38	0.80	1.326	28.27	36
	Sum Weight:		324.00					

Dish Vectors - No Ice

6' Solid w/Radome - Elevation 125 - From Leg A

Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-0.001770	0.000000	0.000000	-779.35	0.00	0.00	0.00	-779.35	-97676.87	0.00	0.00
30	-0.001330	-0.000700	-0.000132	-585.61	-308.22	-348.73	308.22	-585.61	-73459.81	-38527.15	-840.01
60	-0.000420	-0.000890	-0.000404	-184.93	-391.88	-1067.31	391.88	-184.93	-23374.51	-48984.52	-1691.95
90	0.000340	-0.001040	-0.000390	149.71	-457.92	-1030.33	457.92	149.71	18454.97	-57240.34	-1760.24
120	0.001070	-0.001280	0.000002	471.13	-563.60	5.28	563.60	471.13	58633.28	-70449.65	-893.07
150	0.001950	-0.001050	0.000277	858.61	-462.33	731.80	462.33	858.61	107067.41	-57790.73	-5.13
180	0.002210	0.000000	0.000000	973.09	0.00	0.00	0.00	973.09	121377.50	0.00	0.00
210	0.001950	0.001050	-0.000277	858.61	462.33	-731.80	-462.33	858.61	107067.41	57790.73	5.13
240	0.001070	0.001280	-0.000002	471.13	563.60	-5.28	-563.60	471.13	58633.28	70449.65	893.07
270	0.000340	0.001040	0.000390	149.71	457.92	1030.33	-457.92	149.71	18454.97	57240.34	1760.24
300	-0.000420	0.000890	0.000404	-184.93	391.88	1067.31	-391.88	-184.93	-23374.51	48984.52	1691.95
330	-0.001330	0.000700	0.000132	-585.61	308.22	348.73	-308.22	-585.61	-73459.81	38527.15	840.01

6' Solid w/Radome - Elevation 125 - From Leg B

Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	471.13	563.60	-5.28	-126.21	-723.66	-90327.82	15553.09	893.07
30	0.000340	0.001040	0.000390	149.71	457.92	1030.33	99.31	-471.43	-58799.07	-12637.70	1760.24
60	-0.000420	0.000890	0.000404	-184.93	391.88	1067.31	356.09	-246.91	-30734.58	-44735.18	1691.95
90	-0.001330	0.000700	0.000132	-585.61	308.22	348.73	661.26	25.88	3364.41	-82881.63	840.01
120	-0.001770	0.000000	0.000000	-779.35	0.00	0.00	674.94	389.67	48838.44	-84590.65	0.00
150	-0.001330	-0.000700	-0.000132	-585.61	-308.22	-348.73	353.05	559.73	70095.39	-44354.48	-840.01
180	-0.000420	-0.000890	-0.000404	-184.93	-391.88	-1067.31	-35.78	431.84	54109.09	4249.34	-1691.95
210	0.000340	-0.001040	-0.000390	149.71	-457.92	-1030.33	-358.61	321.72	40344.10	44602.64	-1760.24
240	0.001070	-0.001280	0.000002	471.13	-563.60	5.28	-689.81	252.52	31694.54	86002.73	-893.07
270	0.001950	-0.001050	0.000277	858.61	-462.33	731.80	-974.74	-28.92	-3485.47	121618.46	-5.13
300	0.002210	0.000000	0.000000	973.09	0.00	0.00	-842.72	-486.54	-60688.75	105116.00	0.00
330	0.001950	0.001050	-0.000277	858.61	462.33	-731.80	-512.41	-829.69	-103581.94	63827.74	5.13

Dish Totals - No Ice

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Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-126.21	-1503.00	-188004.70	15553.09	893.07
30	407.53	-1057.04	-132258.88	-51164.85	920.22
60	747.97	-431.84	-54109.09	-93719.70	0.00
90	1119.19	175.59	21819.38	-140121.97	-920.22
120	1238.53	860.81	107471.72	-155040.30	-893.07
150	815.37	1418.34	177162.81	-102145.21	-845.14
180	-35.78	1404.93	175486.59	4249.34	-1691.95
210	-820.94	1180.33	147411.52	102393.36	-1755.10
240	-1253.41	723.66	90327.82	156452.38	0.00
270	-1432.66	120.79	14969.50	178858.80	1755.10
300	-1234.59	-671.47	-84063.26	154100.52	1691.95
330	-820.63	-1415.30	-177041.75	102354.89	845.14

Dish Pressures - With Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
125.00	6' Solid w/Radome	0.0000	525.30	0.00	-1.59	1.326	30.09	3	1.1425
125.00	6' Solid w/Radome	120.0000	525.30	1.38	0.80	1.326	30.09	3	1.1425
	Sum		1050.60						
	Weight:								

Dish Vectors - With Ice

6' Solid w/Radome - Elevation 125 - From Leg A											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-0.001770	0.000000	0.000000	-66.43	0.00	0.00	0.00	-66.43	-9141.52	0.00	0.00
30	-0.001330	-0.000700	-0.000132	-49.92	-26.27	-29.73	26.27	-49.92	-7077.19	-3284.15	-71.60
60	-0.000420	-0.000890	-0.000404	-15.76	-33.40	-90.98	33.40	-15.76	-2807.80	-4175.56	-144.23
90	0.000340	-0.001040	-0.000390	12.76	-39.03	-87.83	39.03	12.76	757.85	-4879.31	-150.05
120	0.001070	-0.001280	0.000002	40.16	-48.04	0.45	48.04	40.16	4182.75	-6005.30	-76.13
150	0.001950	-0.001050	0.000277	73.19	-39.41	62.38	39.41	73.19	8311.40	-4926.23	-0.44
180	0.002210	0.000000	0.000000	82.95	0.00	0.00	0.00	82.95	9531.22	0.00	0.00
210	0.001950	0.001050	-0.000277	73.19	39.41	-62.38	-39.41	73.19	8311.40	4926.23	0.44
240	0.001070	0.001280	-0.000002	40.16	48.04	-0.45	-48.04	40.16	4182.75	6005.30	76.13
270	0.000340	0.001040	0.000390	12.76	39.03	87.83	-39.03	12.76	757.85	4879.31	150.05
300	-0.000420	0.000890	0.000404	-15.76	33.40	90.98	-33.40	-15.76	-2807.80	4175.56	144.23
330	-0.001330	0.000700	0.000132	-49.92	26.27	29.73	-26.27	-49.92	-7077.19	3284.15	71.60

6' Solid w/Radome - Elevation 125 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	40.16	48.04	-0.45	-10.76	-61.69	-7292.12	619.72	76.13
30	0.000340	0.001040	0.000390	12.76	39.03	87.83	8.47	-40.19	-4604.53	-1783.34	150.05
60	-0.000420	0.000890	0.000404	-15.76	33.40	90.98	30.35	-21.05	-2212.24	-4519.41	144.23
90	-0.001330	0.000700	0.000132	-49.92	26.27	29.73	56.37	2.21	694.44	-7771.10	71.60
120	-0.001770	0.000000	0.000000	-66.43	0.00	0.00	57.53	33.22	4570.76	-7916.79	0.00
150	-0.001330	-0.000700	-0.000132	-49.92	-26.27	-29.73	30.09	47.71	6382.75	-4486.95	-71.60
180	-0.000420	-0.000890	-0.000404	-15.76	-33.40	-90.98	-3.05	36.81	5020.04	-343.84	-144.23
210	0.000340	-0.001040	-0.000390	12.76	-39.03	-87.83	-30.57	27.42	3846.68	3095.97	-150.05
240	0.001070	-0.001280	0.000002	40.16	-48.04	0.45	-58.80	21.53	3109.37	6625.02	-76.13
270	0.001950	-0.001050	0.000277	73.19	-39.41	62.38	-83.09	-2.46	110.54	9660.99	-0.44

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6' Solid w/Radome - Elevation 125 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
300	0.002210	0.000000	0.000000	82.95	0.00	0.00	-71.84	-41.47	-4765.61	8254.28	0.00
330	0.001950	0.001050	-0.000277	73.19	39.41	-62.38	-43.68	-70.72	-8421.93	4734.77	0.44

Dish Totals - With Ice

Wind Azimuth °	V _x	V _z	OTM _x	OTM _z	Torque
	lb	lb	lb-ft	lb-ft	lb-ft
0	-10.76	-128.12	-16433.64	619.72	76.13
30	34.74	-90.10	-11681.73	-5067.49	78.44
60	63.76	-36.81	-5020.04	-8694.97	0.00
90	95.40	14.97	1452.29	-12650.41	-78.44
120	105.58	73.38	8753.51	-13922.09	-76.13
150	69.50	120.90	14694.15	-9413.18	-72.04
180	-3.05	119.76	14551.27	-343.84	-144.23
210	-69.98	100.61	12158.08	8022.20	-149.61
240	-106.84	61.69	7292.12	12630.32	0.00
270	-122.12	10.30	868.39	14540.30	149.61
300	-105.24	-57.24	-7573.41	12429.84	144.23
330	-69.95	-120.64	-15499.13	8018.92	72.04

Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
125.00	6' Solid w/Radome	0.0000	162.00	0.00	-1.59	1.326	28.27	10
125.00	6' Solid w/Radome	120.0000	162.00	1.38	0.80	1.326	28.27	10
	Sum Weight:		324.00					

Dish Vectors - Service

6' Solid w/Radome - Elevation 125 - From Leg A											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
0	-0.001770	0.000000	0.000000	-223.42	0.00	0.00	0.00	-223.42	-28185.47	0.00	0.00
30	-0.001330	-0.000700	-0.000132	-167.88	-88.36	-99.97	88.36	-167.88	-21243.11	-11044.68	-240.81
60	-0.000420	-0.000890	-0.000404	-53.01	-112.34	-305.97	112.34	-53.01	-6885.03	-14042.52	-485.03
90	0.000340	-0.001040	-0.000390	42.92	-131.27	-295.37	131.27	42.92	5106.34	-16409.23	-504.61
120	0.001070	-0.001280	0.000002	135.06	-161.57	1.51	161.57	135.06	16624.35	-20195.98	-256.02
150	0.001950	-0.001050	0.000277	246.14	-132.54	209.79	132.54	246.14	30509.09	-16567.01	-1.47
180	0.002210	0.000000	0.000000	278.96	0.00	0.00	0.00	278.96	34611.40	0.00	0.00
210	0.001950	0.001050	-0.000277	246.14	132.54	-209.79	-132.54	246.14	30509.09	16567.01	1.47
240	0.001070	0.001280	-0.000002	135.06	161.57	-1.51	-161.57	135.06	16624.35	20195.98	256.02
270	0.000340	0.001040	0.000390	42.92	131.27	295.37	-131.27	42.92	5106.34	16409.23	504.61
300	-0.000420	0.000890	0.000404	-53.01	112.34	305.97	-112.34	-53.01	-6885.03	14042.52	485.03
330	-0.001330	0.000700	0.000132	-167.88	88.36	99.97	-88.36	-167.88	-21243.11	11044.68	240.81

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6' Solid w/Radome - Elevation 125 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
0	0.001070	0.001280	-0.000002	135.06	161.57	-1.51	-36.18	-207.45	-25802.41	4299.12	256.02
30	0.000340	0.001040	0.000390	42.92	131.27	295.37	28.47	-135.14	-16763.98	-3782.40	504.61
60	-0.000420	0.000890	0.000404	-53.01	112.34	305.97	102.08	-70.78	-8718.66	-12983.87	485.03
90	-0.001330	0.000700	0.000132	-167.88	88.36	99.97	189.57	7.42	1056.58	-23919.41	240.81
120	-0.001770	0.000000	0.000000	-223.42	0.00	0.00	193.49	111.71	14092.74	-24409.34	0.00
150	-0.001330	-0.000700	-0.000132	-167.88	-88.36	-99.97	101.21	160.46	20186.52	-12874.73	-240.81
180	-0.000420	-0.000890	-0.000404	-53.01	-112.34	-305.97	-10.26	123.80	15603.69	1058.65	-485.03
210	0.000340	-0.001040	-0.000390	42.92	-131.27	-295.37	-102.80	92.23	11657.64	12626.83	-504.61
240	0.001070	-0.001280	0.000002	135.06	-161.57	1.51	-197.75	72.39	9178.05	24495.10	-256.02
270	0.001950	-0.001050	0.000277	246.14	-132.54	209.79	-279.43	-8.29	-907.09	34705.15	-1.47
300	0.002210	0.000000	0.000000	278.96	0.00	0.00	-241.58	-139.48	-17305.70	29974.35	0.00
330	0.001950	0.001050	-0.000277	246.14	132.54	-209.79	-146.89	-237.85	-29602.00	18138.14	1.47

Dish Totals - Service

Wind Azimuth °	V _x	V _z	OTM _x	OTM _z	Torque
	lb	lb	lb-ft	lb-ft	lb-ft
0	-36.18	-430.87	-53987.88	4299.12	256.02
30	116.83	-303.02	-38007.09	-14827.08	263.80
60	214.42	-123.80	-15603.69	-27026.38	0.00
90	320.84	50.34	6162.92	-40328.64	-263.80
120	355.05	246.77	30717.09	-44605.31	-256.02
150	233.74	406.60	50695.61	-29441.75	-242.28
180	-10.26	402.75	50215.09	1058.65	-485.03
210	-235.34	338.37	42166.74	29193.85	-503.14
240	-359.32	207.45	25802.41	44691.08	0.00
270	-410.70	34.63	4199.25	51114.39	503.14
300	-353.92	-192.49	-24190.73	44016.87	485.03
330	-235.25	-405.73	-50845.11	29182.82	242.28

Force Totals

Load Case	Vertical Forces	Sum of Forces X	Sum of Forces Z	Sum of Overturning Moments, M _x	Sum of Overturning Moments, M _z	Sum of Torques
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Leg Weight	42675.43					
Bracing Weight	0.00					
Total Member Self-Weight	42675.43			-211.20	-365.81	
Total Weight	61676.13			-211.20	-365.81	
Wind 0 deg - No Ice		-95.14	-45635.46	-6244406.15	11526.22	992.14
Wind 30 deg - No Ice		22518.61	-39292.40	-5379209.73	-3085073.78	977.42
Wind 60 deg - No Ice		39014.41	-22524.98	-3085715.10	-5344615.34	0.00
Wind 90 deg - No Ice		45287.53	144.51	17852.60	-6201069.17	-977.42
Wind 120 deg - No Ice		39473.90	22900.12	3132185.07	-5402051.25	-992.14
Wind 150 deg - No Ice		22872.63	39622.62	5420064.80	-3129325.66	-959.54
Wind 180 deg - No Ice		-66.86	45537.38	6231723.87	7991.85	-1791.02
Wind 210 deg - No Ice		-22932.02	39415.69	5394198.19	3136017.93	-1812.30
Wind 240 deg - No Ice		-39519.85	22816.80	3121769.65	5407063.65	0.00
Wind 270 deg - No Ice		-45601.00	151.87	18772.10	6239521.63	1812.30
Wind 300 deg - No Ice		-39469.96	-22710.79	-3108940.79	5400827.10	1791.02
Wind 330 deg - No Ice		-22877.88	-39619.59	-5420107.92	3129250.97	959.54
Member Ice	12111.04					

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Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M _x lb-ft	Sum of Overturning Moments, M _z lb-ft	Sum of Torques lb-ft
Total Weight Ice	84512.89			-529.88	-917.78	
Wind 0 deg - Ice		-7.32	-5725.51	-767821.55	-2.59	87.08
Wind 30 deg - Ice		2838.39	-4939.30	-662632.48	-381518.64	84.77
Wind 60 deg - Ice		4916.39	-2838.48	-381141.71	-660156.80	0.00
Wind 90 deg - Ice		5696.76	11.53	911.41	-764615.88	-84.77
Wind 120 deg - Ice		4954.77	2869.09	383908.53	-664954.27	-87.08
Wind 150 deg - Ice		2867.20	4966.66	664992.80	-385120.14	-84.70
Wind 180 deg - Ice		-6.49	5717.15	765716.73	-106.83	-155.18
Wind 210 deg - Ice		-2873.63	4949.81	662886.38	384088.05	-155.94
Wind 240 deg - Ice		-4959.48	2863.36	383191.34	663706.86	0.00
Wind 270 deg - Ice		-5723.48	13.73	1186.82	766120.47	155.94
Wind 300 deg - Ice		-4954.44	-2852.95	-382950.89	663076.72	155.18
Wind 330 deg - Ice		-2867.65	-4966.40	-666020.22	383340.58	84.70
Total Weight	61676.13			-211.20	-365.81	
Wind 0 deg - Service		-27.27	-13082.43	-1790250.41	3043.31	284.42
Wind 30 deg - Service		6455.47	-11264.05	-1542222.36	-884666.87	280.20
Wind 60 deg - Service		11184.36	-6457.29	-884740.43	-1532415.38	0.00
Wind 90 deg - Service		12982.69	41.43	4967.20	-1777937.18	-280.20
Wind 120 deg - Service		11316.08	6564.84	897760.79	-1548880.68	-284.42
Wind 150 deg - Service		6556.95	11358.72	1553633.07	-897352.67	-275.07
Wind 180 deg - Service		-19.17	13054.32	1786313.44	2030.10	-513.44
Wind 210 deg - Service		-6573.98	11299.40	1546217.83	898749.28	-519.54
Wind 240 deg - Service		-11329.26	6540.95	894774.97	1549795.72	0.00
Wind 270 deg - Service		-13072.55	43.54	5230.79	1788438.56	519.54
Wind 300 deg - Service		-11314.95	-6510.56	-891398.60	1548007.87	513.44
Wind 330 deg - Service		-6558.46	-11357.85	-1553946.74	896809.38	275.07

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice

<i>Comb. No.</i>	<i>Description</i>
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Condition</i>	<i>Gov. Load Comb.</i>	<i>Axial lb</i>	<i>Major Axis Moment lb-ft</i>	<i>Minor Axis Moment lb-ft</i>
L1	195 - 180	Pole	Max Tension	2	0.12	0.22	-0.00
			Max. Compression	26	-8513.50	0.00	0.00
			Max. Mx	20	-3958.67	94415.86	-3.02
			Max. My	2	-3958.10	1.92	94418.46
			Max. Vy	20	-8897.27	94415.86	-3.02
			Max. Vx	2	-8897.51	1.92	94418.46
			Max. Torque	23			0.02
L2	180 - 138.75	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-31945.75	0.00	0.00
			Max. Mx	20	-17070.46	972568.77	-42.66
			Max. My	2	-17068.54	26.06	972599.62
			Max. Vy	20	-30339.50	972568.77	-42.66
			Max. Vx	2	-30340.58	26.06	972599.62
			Max. Torque	22			1.64
L3	138.75 - 90.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-47442.44	-990.94	572.12
			Max. Mx	20	-29647.86	2515634.28	-4290.68
			Max. My	2	-29644.19	2391.69	2517372.36
			Max. Vy	20	-36127.49	2515634.28	-4290.68
			Max. Vx	2	-36163.23	2391.69	2517372.36
			Max. Torque	20			-1818.73
L4	90.5 - 44.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-66831.12	-990.94	572.12
			Max. Mx	20	-46367.51	4226278.27	-11224.77
			Max. My	2	-46365.74	6731.84	4229603.48
			Max. Vy	20	-40689.72	4226278.27	-11224.77
			Max. Vx	2	-40725.15	6731.84	4229603.48
			Max. Torque	20			-1811.23

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
L5	44.25 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-98318.16	-990.94	572.12
			Max. Mx	20	-73986.49	6511721.73	-19353.65
			Max. My	2	-73986.45	11821.85	6516895.95
			Max. Vy	20	-45641.38	6511721.73	-19353.65
			Max. Vx	2	-45675.87	11821.85	6516895.95
			Max. Torque	20			-1806.80

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	26	98318.16	0.00	0.00
	Max. H _x	20	74011.35	45601.04	-151.87
	Max. H _z	2	74011.35	95.14	45635.50
	Max. M _x	2	6516895.95	95.14	45635.50
	Max. M _z	8	6472299.46	-45287.57	-144.51
	Max. Torsion	16	1805.61	22932.02	-39415.69
	Min. Vert	7	55508.51	-39014.41	22524.98
	Min. H _x	8	74011.35	-45287.57	-144.51
	Min. H _z	14	74011.35	66.86	-45537.42
	Min. M _x	14	-6503729.00	66.86	-45537.42
	Min. M _z	20	-6511721.73	45601.04	-151.87
	Min. Torsion	20	-1805.74	45601.04	-151.87

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead Only	61676.13	0.00	0.00	-211.20	-365.81	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	74011.35	-95.14	-45635.50	-6516895.95	11822.02	1009.20
0.9 Dead+1.0 Wind 0 deg - No Ice	55508.52	-95.14	-45635.47	-6442346.49	11838.96	1001.71
1.2 Dead+1.0 Wind 30 deg - No Ice	74011.35	22518.61	-39292.40	-5614411.73	-3220240.53	982.23
0.9 Dead+1.0 Wind 30 deg - No Ice	55508.51	22518.61	-39292.40	-5550057.37	-3183189.09	978.05
1.2 Dead+1.0 Wind 60 deg - No Ice	74011.35	39014.41	-22524.98	-3220915.01	-5578788.40	-0.02
0.9 Dead+1.0 Wind 60 deg - No Ice	55508.51	39014.41	-22524.98	-3183904.55	-5514684.45	-0.01
1.2 Dead+1.0 Wind 90 deg - No Ice	74011.35	45287.57	144.51	18395.67	-6472299.46	-982.24
0.9 Dead+1.0 Wind 90 deg - No Ice	55508.51	45287.54	144.51	18306.04	-6398073.34	-978.06
1.2 Dead+1.0 Wind 120 deg - No Ice	74011.35	39473.90	22900.12	3268708.28	-5637924.54	-1009.13
0.9 Dead+1.0 Wind 120 deg - No Ice	55508.51	39473.90	22900.12	3231432.06	-5573326.51	-1001.68
1.2 Dead+1.0 Wind 150 deg - No Ice	74011.35	22872.63	39622.62	5656358.37	-3265864.12	-981.25

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	Client The Towers, LLC	Designed by AG

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
No Ice						
0.9 Dead+1.0 Wind 150 deg - No Ice	55508.51	22872.63	39622.62	5591791.47	-3228427.94	-972.57
1.2 Dead+1.0 Wind 180 deg - No Ice	74011.35	-66.86	45537.42	6503729.00	8179.89	-1797.13
0.9 Dead+1.0 Wind 180 deg - No Ice	55508.52	-66.86	45537.39	6429427.62	8225.57	-1790.00
1.2 Dead+1.0 Wind 210 deg - No Ice	74011.35	-22932.02	39415.69	5629677.52	3272644.07	-1805.61
0.9 Dead+1.0 Wind 210 deg - No Ice	55508.51	-22932.02	39415.69	5565338.55	3235382.21	-1801.86
1.2 Dead+1.0 Wind 240 deg - No Ice	74011.35	-39519.85	22816.80	3257944.89	5642926.04	-0.03
0.9 Dead+1.0 Wind 240 deg - No Ice	55508.51	-39519.85	22816.80	3220761.76	5578523.00	-0.01
1.2 Dead+1.0 Wind 270 deg - No Ice	74011.35	-45601.04	151.87	19353.95	6511721.73	1805.74
0.9 Dead+1.0 Wind 270 deg - No Ice	55508.52	-45601.01	151.87	19253.85	6437403.78	1801.92
1.2 Dead+1.0 Wind 300 deg - No Ice	74011.35	-39469.96	-22710.79	-3244802.42	5636522.69	1797.02
0.9 Dead+1.0 Wind 300 deg - No Ice	55508.51	-39469.96	-22710.79	-3207596.16	5572170.75	1789.94
1.2 Dead+1.0 Wind 330 deg - No Ice	74011.35	-22877.88	-39619.59	-5656500.46	3265618.02	981.20
0.9 Dead+1.0 Wind 330 deg - No Ice	55508.51	-22877.88	-39619.59	-5591796.34	3228419.51	972.56
1.2 Dead+1.0 Ice+1.0 Temp	98318.16	0.00	0.00	-572.12	-990.94	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	98318.16	-7.32	-5725.55	-822883.77	-144.72	95.76
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	98318.16	2838.41	-4939.34	-710207.52	-409025.61	89.76
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	98318.16	4916.43	-2838.50	-408569.07	-707662.38	-0.00
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	98318.16	5696.80	11.53	877.20	-819570.55	-89.76
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	98318.16	4954.81	2869.11	411316.56	-712710.61	-95.76
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	98318.16	2867.23	4966.70	712527.08	-412815.53	-94.73
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	98318.16	-6.49	5717.19	820504.80	-254.27	-163.83
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	98318.16	-2873.65	4949.85	710310.33	411445.62	-160.90
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	98318.16	-4959.51	2863.38	410561.77	711113.83	-0.00
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	98318.16	-5723.52	13.73	1167.18	820869.59	160.90
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	98318.16	-4954.47	-2852.97	-410472.61	710450.88	163.83
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	98318.16	-2867.67	-4966.44	-713772.27	410658.80	94.73
Dead+Wind 0 deg - Service	61676.13	-27.27	-13082.44	-1857998.67	3116.92	291.27
Dead+Wind 30 deg - Service	61676.13	6455.47	-11264.05	-1600676.30	-918262.09	283.98
Dead+Wind 60 deg - Service	61676.13	11184.36	-6457.29	-918334.11	-1590601.32	-0.00
Dead+Wind 90 deg - Service	61676.13	12982.70	41.43	5099.84	-1845348.80	-283.98
Dead+Wind 120 deg - Service	61676.13	11316.08	6564.84	931702.99	-1607523.04	-291.27
Dead+Wind 150 deg - Service	61676.13	6556.95	11358.72	1612389.07	-931301.18	-283.10
Dead+Wind 180 deg - Service	61676.13	-19.17	13054.32	1853938.42	2075.92	-520.03
Dead+Wind 210 deg - Service	61676.13	-6573.98	11299.40	1604766.55	932714.79	-523.03
Dead+Wind 240 deg - Service	61676.13	-11329.26	6540.95	928633.18	1608439.85	-0.00

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead+Wind 270 deg - Service	61676.13	-13072.56	43.54	5371.40	1856117.39	523.03
Dead+Wind 300 deg - Service	61676.13	-11314.95	-6510.56	-925175.70	1606603.18	520.03
Dead+Wind 330 deg - Service	61676.13	-6558.46	-11357.85	-1612725.01	930719.31	283.10

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-61676.13	0.00	0.00	61676.13	0.00	0.000%
2	-95.14	-74011.35	-45635.46	95.14	74011.35	45635.50	0.000%
3	-95.14	-55508.51	-45635.46	95.14	55508.52	45635.47	0.000%
4	22518.61	-74011.35	-39292.40	-22518.61	74011.35	39292.40	0.000%
5	22518.61	-55508.51	-39292.40	-22518.61	55508.51	39292.40	0.000%
6	39014.41	-74011.35	-22524.98	-39014.41	74011.35	22524.98	0.000%
7	39014.41	-55508.51	-22524.98	-39014.41	55508.51	22524.98	0.000%
8	45287.53	-74011.35	144.51	-45287.57	74011.35	-144.51	0.000%
9	45287.53	-55508.51	144.51	-45287.54	55508.51	-144.51	0.000%
10	39473.90	-74011.35	22900.12	-39473.90	74011.35	-22900.12	0.000%
11	39473.90	-55508.51	22900.12	-39473.90	55508.51	-22900.12	0.000%
12	22872.63	-74011.35	39622.62	-22872.63	74011.35	-39622.62	0.000%
13	22872.63	-55508.51	39622.62	-22872.63	55508.51	-39622.62	0.000%
14	-66.86	-74011.35	45537.38	66.86	74011.35	-45537.42	0.000%
15	-66.86	-55508.51	45537.38	66.86	55508.52	-45537.39	0.000%
16	-22932.02	-74011.35	39415.69	22932.02	74011.35	-39415.69	0.000%
17	-22932.02	-55508.51	39415.69	22932.02	55508.51	-39415.69	0.000%
18	-39519.85	-74011.35	22816.80	39519.85	74011.35	-22816.80	0.000%
19	-39519.85	-55508.51	22816.80	39519.85	55508.51	-22816.80	0.000%
20	-45601.00	-74011.35	151.87	45601.04	74011.35	-151.87	0.000%
21	-45601.00	-55508.51	151.87	45601.01	55508.52	-151.87	0.000%
22	-39469.96	-74011.35	-22710.79	39469.96	74011.35	22710.79	0.000%
23	-39469.96	-55508.51	-22710.79	39469.96	55508.51	22710.79	0.000%
24	-22877.88	-74011.35	-39619.59	22877.88	74011.35	39619.59	0.000%
25	-22877.88	-55508.51	-39619.59	22877.88	55508.51	39619.59	0.000%
26	0.00	-98318.16	0.00	0.00	98318.16	0.00	0.000%
27	-7.32	-98318.16	-5725.51	7.32	98318.16	5725.55	0.000%
28	2838.39	-98318.16	-4939.30	-2838.41	98318.16	4939.34	0.000%
29	4916.39	-98318.16	-2838.48	-4916.43	98318.16	2838.50	0.000%
30	5696.76	-98318.16	11.53	-5696.80	98318.16	-11.53	0.000%
31	4954.77	-98318.16	2869.09	-4954.81	98318.16	-2869.11	0.000%
32	2867.20	-98318.16	4966.66	-2867.23	98318.16	-4966.70	0.000%
33	-6.49	-98318.16	5717.15	6.49	98318.16	-5717.19	0.000%
34	-2873.63	-98318.16	4949.81	2873.65	98318.16	-4949.85	0.000%
35	-4959.48	-98318.16	2863.36	4959.51	98318.16	-2863.38	0.000%
36	-5723.48	-98318.16	13.73	5723.52	98318.16	-13.73	0.000%
37	-4954.44	-98318.16	-2852.95	4954.47	98318.16	2852.97	0.000%
38	-2867.65	-98318.16	-4966.40	2867.67	98318.16	4966.44	0.000%
39	-27.27	-61676.13	-13082.43	27.27	61676.13	13082.44	0.000%
40	6455.47	-61676.13	-11264.05	-6455.47	61676.13	11264.05	0.000%
41	11184.36	-61676.13	-6457.29	-11184.36	61676.13	6457.29	0.000%
42	12982.69	-61676.13	41.43	-12982.70	61676.13	-41.43	0.000%
43	11316.08	-61676.13	6564.84	-11316.08	61676.13	-6564.84	0.000%
44	6556.95	-61676.13	11358.72	-6556.95	61676.13	-11358.72	0.000%
45	-19.17	-61676.13	13054.32	19.17	61676.13	-13054.32	0.000%
46	-6573.98	-61676.13	11299.40	6573.98	61676.13	-11299.40	0.000%
47	-11329.26	-61676.13	6540.95	11329.26	61676.13	-6540.95	0.000%
48	-13072.55	-61676.13	43.54	13072.56	61676.13	-43.54	0.000%
49	-11314.95	-61676.13	-6510.56	11314.95	61676.13	6510.56	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
50	-6558.46	-61676.13	-11357.85	6558.46	61676.13	11357.85	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.0000001	0.0000001
2	Yes	4	0.0000001	0.00074286
3	Yes	4	0.0000001	0.00026408
4	Yes	6	0.0000001	0.00015690
5	Yes	6	0.0000001	0.00004443
6	Yes	6	0.0000001	0.00015596
7	Yes	6	0.0000001	0.00004415
8	Yes	4	0.0000001	0.00071533
9	Yes	4	0.0000001	0.00023643
10	Yes	6	0.0000001	0.00015630
11	Yes	6	0.0000001	0.00004401
12	Yes	6	0.0000001	0.00015789
13	Yes	6	0.0000001	0.00004456
14	Yes	4	0.0000001	0.00093593
15	Yes	4	0.0000001	0.00044180
16	Yes	6	0.0000001	0.00015567
17	Yes	6	0.0000001	0.00004380
18	Yes	6	0.0000001	0.00015688
19	Yes	6	0.0000001	0.00004425
20	Yes	4	0.0000001	0.00083385
21	Yes	4	0.0000001	0.00035779
22	Yes	6	0.0000001	0.00015806
23	Yes	6	0.0000001	0.00004473
24	Yes	6	0.0000001	0.00015634
25	Yes	6	0.0000001	0.00004401
26	Yes	4	0.0000001	0.00000001
27	Yes	5	0.0000001	0.00017597
28	Yes	5	0.0000001	0.00019858
29	Yes	5	0.0000001	0.00019808
30	Yes	5	0.0000001	0.00017562
31	Yes	5	0.0000001	0.00019878
32	Yes	5	0.0000001	0.00019910
33	Yes	5	0.0000001	0.00017538
34	Yes	5	0.0000001	0.00019790
35	Yes	5	0.0000001	0.00019805
36	Yes	5	0.0000001	0.00017533
37	Yes	5	0.0000001	0.00019839
38	Yes	5	0.0000001	0.00019865
39	Yes	4	0.0000001	0.00010401
40	Yes	5	0.0000001	0.00010463
41	Yes	5	0.0000001	0.00010311
42	Yes	4	0.0000001	0.00010193
43	Yes	5	0.0000001	0.00010393
44	Yes	5	0.0000001	0.00010618
45	Yes	4	0.0000001	0.00012124
46	Yes	5	0.0000001	0.00010302
47	Yes	5	0.0000001	0.00010465
48	Yes	4	0.0000001	0.00011824
49	Yes	5	0.0000001	0.00010625
50	Yes	5	0.0000001	0.00010410

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Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	195 - 180	45.225	50	2.3721	0.0011
L2	180 - 138.75	37.826	50	2.3129	0.0011
L3	143.5 - 90.5	21.965	50	1.7382	0.0011
L4	97.25 - 44.25	8.858	50	0.9483	0.0006
L5	52.75 - 0	2.400	50	0.4228	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
191.00	30,000 sq in CaAa	50	43.234	2.3629	0.0011	18826
175.00	42,000 sq in CaAa	50	35.433	2.2669	0.0011	5378
164.00	30,000 sq in CaAa	50	30.376	2.1162	0.0012	4091
125.00	6' Solid w/Radome	50	15.794	1.3963	0.0009	3240

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	195 - 180	158.347	2	8.3293	0.0036
L2	180 - 138.75	132.495	24	8.1220	0.0036
L3	143.5 - 90.5	77.036	24	6.1054	0.0038
L4	97.25 - 44.25	31.090	24	3.3308	0.0019
L5	52.75 - 0	8.422	24	1.4844	0.0006

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
191.00	30,000 sq in CaAa	2	151.384	8.2973	0.0036	5583
175.00	42,000 sq in CaAa	24	124.134	7.9607	0.0037	1588
164.00	30,000 sq in CaAa	24	106.460	7.4321	0.0038	1201
125.00	6' Solid w/Radome	24	55.418	4.9050	0.0032	936

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Base Plate Design Data

Plate Thickness	Number of Anchor Bolts	Anchor Bolt Size	Actual Allowable Ratio Bolt Tension lb	Actual Allowable Ratio Bolt Compression lb	Actual Allowable Ratio Plate Stress ksi	Actual Allowable Ratio Stiffener Stress ksi	Controlling Condition	Ratio
2.5000	18	2.2500	207651.10	215871.81	37.777		Bolt T	0.85
			243576.14	404336.40	45.000			✓
			0.85	0.53	0.84			

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u / φP _n
L1	195 - 194	TP22.4475x18x0.1875	15.00	0.00	0.0	10.7771	-49.05	630461.00	0.000 ¹
	194 - 193					10.9536	-98.74	640784.00	0.000
	193 - 192					11.1300	-149.11	651107.00	0.000
	192 - 191					11.3065	-200.15	661429.00	0.000
	191 - 190					11.4829	-3374.56	671752.00	0.005
	190 - 189					11.6594	-3427.61	682074.00	0.005
	189 - 188					11.8358	-3481.91	692397.00	0.005
	188 - 187					12.0123	-3537.45	702720.00	0.005
	187 - 186					12.1888	-3594.17	713042.00	0.005
	186 - 185					12.3652	-3652.06	723365.00	0.005
	185 - 184					12.5417	-3711.09	733687.00	0.005
	184 - 183					12.7181	-3771.23	744010.00	0.005
	183 - 182					12.8946	-3832.46	754333.00	0.005
	182 - 181					13.0710	-3894.75	764655.00	0.005
181 - 180	13.2475	-3958.10	774978.00	0.005					
L2	180 - 178.079	TP34.6781x22.4475x0.25	41.25	0.00	0.0	18.0657	-4166.23	1056840.00	0.004
	178.079 - 176.158					18.5177	-4379.95	1083280.00	0.004
	176.158 - 174.237					18.9696	-9071.10	1109720.00	0.008
	174.237 - 172.316					19.4216	-9311.92	1136160.00	0.008
	172.316 - 170.395					19.8736	-9554.31	1162600.00	0.008
	170.395 - 168.474					20.3255	-9803.81	1189040.00	0.008
	168.474 - 166.553					20.7775	-10060.00	1215480.00	0.008
	166.553 - 164.632					21.2295	-10322.60	1241930.00	0.008
	164.632 - 162.711					21.6815	-13853.60	1268370.00	0.011
	162.711 - 160.789					22.1334	-14151.90	1294810.00	0.011
	160.789 - 158.868					22.5854	-14449.90	1321250.00	0.011
	158.868 -					23.0374	-14755.30	1347690.00	0.011

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	156.947								
	156.947 - 155.026					23.4893	-15067.70	1374130.00	0.011
	155.026 - 153.105					23.9413	-15386.90	1400570.00	0.011
	153.105 - 151.184					24.3933	-15712.40	1427010.00	0.011
	151.184 - 149.263					24.8453	-16043.90	1453450.00	0.011
	149.263 - 147.342					25.2972	-16381.30	1479890.00	0.011
	147.342 - 145.421					25.7492	-16720.20	1506330.00	0.011
	145.421 - 143.5					26.2012	-17068.50	1532770.00	0.011
	143.5 - 138.75					27.3187	-8350.68	1598150.00	0.005
L3	143.5 - 138.75	TP48.4843x32.7698x0.3125	53.00	0.00	0.0	33.5905	-10190.40	1965040.00	0.005
	138.75 - 136.444					34.2685	-19053.60	2004710.00	0.010
	136.444 - 134.139					34.9466	-19568.70	2044370.00	0.010
	134.139 - 131.833					35.6246	-20082.80	2084040.00	0.010
	131.833 - 129.528					36.3026	-20613.40	2123700.00	0.010
	129.528 - 127.222					36.9807	-21151.60	2163370.00	0.010
	127.222 - 124.917					37.6587	-22472.50	2203040.00	0.010
	124.917 - 122.611					38.3368	-23015.60	2242700.00	0.010
	122.611 - 120.306					39.0148	-23580.70	2282370.00	0.010
	120.306 - 118					39.6929	-24153.40	2322030.00	0.010
	118 - 115.694					40.3709	-24733.40	2361700.00	0.010
	115.694 - 113.389					41.0489	-25320.70	2401360.00	0.011
	113.389 - 111.083					41.7270	-25915.20	2441030.00	0.011
	111.083 - 108.778					42.4050	-26517.00	2480690.00	0.011
	108.778 - 106.472					43.0831	-27126.00	2520360.00	0.011
	106.472 - 104.167					43.7611	-27742.10	2560030.00	0.011
	104.167 - 101.861					44.4392	-28365.30	2599690.00	0.011
	101.861 - 99.5556					45.1172	-28995.60	2639360.00	0.011
	99.5556 - 97.25					45.7952	-29633.00	2679020.00	0.011
	97.25 - 90.5					47.7804	-15215.20	2795150.00	0.005
L4	97.25 - 90.5	TP61.5724x45.8579x0.375	53.00	0.00	0.0	56.5181	-17849.40	3306310.00	0.005
	90.5 - 88.4028					57.2583	-33768.30	3349610.00	0.010
	88.4028 - 86.3056					57.9984	-34453.50	3392910.00	0.010
	86.3056 - 84.2083					58.7385	-35145.60	3436200.00	0.010
	84.2083 - 82.1111					59.4786	-35844.60	3479500.00	0.010

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	82.1111 - 80.0139					60.2188	-36550.70	3522800.00	0.010
	80.0139 - 77.9167					60.9589	-37263.60	3566100.00	0.010
	77.9167 - 75.8194					61.6990	-37983.50	3609390.00	0.011
	75.8194 - 73.7222					62.4392	-38710.30	3652690.00	0.011
	73.7222 - 71.625					63.1793	-39444.10	3695990.00	0.011
	71.625 - 69.5278					63.9194	-40184.80	3739290.00	0.011
	69.5278 - 67.4306					64.6595	-40932.40	3782580.00	0.011
	67.4306 - 65.3333					65.3997	-41687.00	3825880.00	0.011
	65.3333 - 63.2361					66.1398	-42448.50	3869180.00	0.011
	63.2361 - 61.1389					66.8799	-43217.00	3912480.00	0.011
	61.1389 - 59.0417					67.6201	-43992.40	3955770.00	0.011
	59.0417 - 56.9444					68.3602	-44774.70	3999070.00	0.011
	56.9444 - 54.8472					69.1003	-45564.00	4042370.00	0.011
	54.8472 - 52.75					69.8404	-46360.20	4085670.00	0.011
	52.75 - 44.25					72.8402	-24562.20	4261150.00	0.006
L5	52.75 - 44.25	TP73.9425x58.3021x0.4375	52.75	0.00	0.0	83.8519	-28074.60	4905340.00	0.006
	44.25 - 41.9211					84.8108	-53697.70	4961430.00	0.011
	41.9211 - 39.5921					85.7697	-54740.10	5017530.00	0.011
	39.5921 - 37.2632					86.7286	-55792.50	5073620.00	0.011
	37.2632 - 34.9342					87.6875	-56854.90	5129720.00	0.011
	34.9342 - 32.6053					88.6464	-57927.30	5185810.00	0.011
	32.6053 - 30.2763					89.6053	-59009.60	5241910.00	0.011
	30.2763 - 27.9474					90.5642	-60101.90	5298010.00	0.011
	27.9474 - 25.6184					91.5231	-61204.20	5354100.00	0.011
	25.6184 - 23.2895					92.4820	-62316.50	5410200.00	0.012
	23.2895 - 20.9605					93.4409	-63438.70	5466290.00	0.012
	20.9605 - 18.6316					94.3997	-64570.90	5522390.00	0.012
	18.6316 - 16.3026					95.3586	-65713.10	5578480.00	0.012
	16.3026 - 13.9737					96.3175	-66865.10	5634580.00	0.012
	13.9737 - 11.6447					97.2764	-68027.20	5690670.00	0.012
	11.6447 - 9.31579					98.2353	-69199.10	5746770.00	0.012

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	9.31579 - 6.98684					99.1942	-70381.00	5802860.00	0.012
	6.98684 - 4.65789					100.1530	-71572.90	5858960.00	0.012
	4.65789 - 2.32895					101.1120	-72774.60	5915050.00	0.012
	2.32895 - 0					102.0710	-73986.30	5971150.00	0.012

¹ P_u / φP_n controls

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} lb-ft	φM _{ux} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} lb-ft	φM _{uy} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	195 - 194	TP22.4475x18x0.1875	28.26	296290.83	0.000	0.00	296290.83	0.000
	194 - 193		113.10	304904.17	0.000	0.00	304904.17	0.000
	193 - 192		255.57	313599.17	0.001	0.00	313599.17	0.000
	192 - 191		456.59	322373.33	0.001	0.00	322373.33	0.000
	191 - 190		8688.08	331224.17	0.026	0.00	331224.17	0.000
	190 - 189		16979.83	340150.00	0.050	0.00	340150.00	0.000
	189 - 188		25332.25	349149.17	0.073	0.00	349149.17	0.000
	188 - 187		33746.08	358220.00	0.094	0.00	358220.00	0.000
	187 - 186		42221.92	367360.00	0.115	0.00	367360.00	0.000
	186 - 185		50760.58	376568.33	0.135	0.00	376568.33	0.000
	185 - 184		59362.58	385841.67	0.154	0.00	385841.67	0.000
	184 - 183		68028.67	395178.33	0.172	0.00	395178.33	0.000
	183 - 182		76759.50	404577.50	0.190	0.00	404577.50	0.000
	182 - 181		85555.83	414035.83	0.207	0.00	414035.83	0.000
	181 - 180		94418.33	423552.50	0.223	0.00	423552.50	0.000
L2	180 - 178.079	TP34.6781x22.4475x0.25	111643.33	626428.33	0.178	0.00	626428.33	0.000
	178.079 - 176.158		129144.17	658339.17	0.196	0.00	658339.17	0.000
	176.158 - 174.237		155320.00	690066.67	0.225	0.00	690066.67	0.000
	174.237 - 172.316		194435.83	719376.67	0.270	0.00	719376.67	0.000
	172.316 - 170.395		233848.33	749085.83	0.312	0.00	749085.83	0.000
	170.395 - 168.474		273538.33	779181.67	0.351	0.00	779181.67	0.000
	168.474 - 166.553		313507.50	809650.00	0.387	0.00	809650.00	0.000
	166.553 - 164.632		353759.17	840475.00	0.421	0.00	840475.00	0.000
	164.632 - 162.711		404260.00	871650.00	0.464	0.00	871650.00	0.000
	162.711 - 160.789		459791.67	903158.33	0.509	0.00	903158.33	0.000
	160.789 - 158.868		515651.67	934983.33	0.552	0.00	934983.33	0.000
	158.868 - 156.947		571787.50	967108.33	0.591	0.00	967108.33	0.000
	156.947 - 155.026		628199.17	999525.00	0.628	0.00	999525.00	0.000

tnxTower

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Job	SO31895; Tower 661441; Foundation 661442	Page	38 of 47
Project	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date	16:35:58 04/23/24
Client	The Towers, LLC	Designed by	AG

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{ux} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} lb-ft	ϕM_{uy} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
	155.026 - 153.105		684888.33	1032225.00	0.664	0.00	1032225.00	0.000
	153.105 - 151.184		741855.00	1065183.33	0.696	0.00	1065183.33	0.000
	151.184 - 149.263		799101.67	1098391.67	0.728	0.00	1098391.67	0.000
	149.263 - 147.342		856625.00	1131841.67	0.757	0.00	1131841.67	0.000
	147.342 - 145.421		914500.00	1165516.67	0.785	0.00	1165516.67	0.000
	145.421 - 143.5		972600.00	1199391.67	0.811	0.00	1199391.67	0.000
L3	143.5 - 138.75	TP48.4843x32.7698x0.3125	510809.17	1283983.33	0.398	0.00	1283983.33	0.000
	138.75 - 136.444		606924.17	1677633.33	0.362	0.00	1677633.33	0.000
	136.444 - 134.139		1189016.67	1736450.00	0.685	0.00	1736450.00	0.000
	134.139 - 131.833		1260750.00	1795858.33	0.702	0.00	1795858.33	0.000
	131.833 - 129.528		1333141.67	1855816.67	0.718	0.00	1855816.67	0.000
	129.528 - 127.222		1405791.67	1916316.67	0.734	0.00	1916316.67	0.000
	127.222 - 124.917		1478900.00	1977333.33	0.748	0.00	1977333.33	0.000
	124.917 - 122.611		1552750.00	2038833.33	0.762	0.00	2038833.33	0.000
	122.611 - 120.306		1630683.33	2100800.00	0.776	0.00	2100800.00	0.000
	120.306 - 118		1709200.00	2163216.67	0.790	0.00	2163216.67	0.000
	118 - 115.694		1788183.33	2226050.00	0.803	0.00	2226050.00	0.000
	115.694 - 113.389		1867641.67	2289275.00	0.816	0.00	2289275.00	0.000
	113.389 - 111.083		1947566.67	2352875.00	0.828	0.00	2352875.00	0.000
	111.083 - 108.778		2027966.67	2416825.00	0.839	0.00	2416825.00	0.000
	108.778 - 106.472		2108850.00	2481100.00	0.850	0.00	2481100.00	0.000
	106.472 - 104.167		2190208.33	2545683.33	0.860	0.00	2545683.33	0.000
	104.167 - 101.861		2272058.33	2610533.33	0.870	0.00	2610533.33	0.000
	101.861 - 99.5556		2354383.33	2675650.00	0.880	0.00	2675650.00	0.000
	99.5556 - 97.25		2437208.33	2740991.67	0.889	0.00	2740991.67	0.000
L4	97.25 - 90.5	TP61.5724x45.8579x0.375	2520533.33	2806541.67	0.898	0.00	2806541.67	0.000
	97.25 - 90.5		1288683.33	2999433.33	0.430	0.00	2999433.33	0.000
	90.5 - 88.4028		1479358.33	3775408.33	0.392	0.00	3775408.33	0.000
	88.4028 - 86.3056		2846041.67	3857825.00	0.738	0.00	3857825.00	0.000
	86.3056 - 84.2083		2924466.67	3940641.67	0.742	0.00	3940641.67	0.000
	84.2083 - 82.1111		3003325.00	4023825.00	0.746	0.00	4023825.00	0.000
	82.1111 - 80.0139		3082608.33	4107366.67	0.751	0.00	4107366.67	0.000
	80.0139 -		3162316.67	4191250.00	0.755	0.00	4191250.00	0.000
			3242466.67	4275450.00	0.758	0.00	4275450.00	0.000

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{ux} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} lb-ft	ϕM_{uy} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
	77.9167							
	77.9167 - 75.8194		3323041.67	4359950.00	0.762	0.00	4359950.00	0.000
	75.8194 - 73.7222		3404050.00	4444741.67	0.766	0.00	4444741.67	0.000
	73.7222 - 71.625		3485491.67	4529791.67	0.769	0.00	4529791.67	0.000
	71.625 - 69.5278		3567358.33	4615100.00	0.773	0.00	4615100.00	0.000
	69.5278 - 67.4306		3649666.67	4700633.33	0.776	0.00	4700633.33	0.000
	67.4306 - 65.3333		3732408.33	4786383.33	0.780	0.00	4786383.33	0.000
	65.3333 - 63.2361		3815591.67	4872333.33	0.783	0.00	4872333.33	0.000
	63.2361 - 61.1389		3899200.00	4958458.33	0.786	0.00	4958458.33	0.000
	61.1389 - 59.0417		3983250.00	5044741.67	0.790	0.00	5044741.67	0.000
	59.0417 - 56.9444		4067741.67	5131175.00	0.793	0.00	5131175.00	0.000
	56.9444 - 54.8472		4152666.67	5217725.00	0.796	0.00	5217725.00	0.000
	54.8472 - 52.75		4238025.00	5304391.67	0.799	0.00	5304391.67	0.000
	52.75 - 44.25		2165350.00	5656374.67	0.383	0.00	5656374.67	0.000
L5	52.75 - 44.25	TP73.9425x58.3021x0.4375	2424133.33	6906458.00	0.351	0.00	6906458.00	0.000
	44.25 - 41.9211		4687283.33	7034550.00	0.666	0.00	7034550.00	0.000
	41.9211 - 39.5921		4785608.33	7163033.33	0.668	0.00	7163033.33	0.000
	39.5921 - 37.2632		4884450.00	7291883.33	0.670	0.00	7291883.33	0.000
	37.2632 - 34.9342		4983800.00	7421066.67	0.672	0.00	7421066.67	0.000
	34.9342 - 32.6053		5083650.00	7550574.67	0.673	0.00	7550574.67	0.000
	32.6053 - 30.2763		5184008.33	7680366.67	0.675	0.00	7680366.67	0.000
	30.2763 - 27.9474		5284850.00	7810433.33	0.677	0.00	7810433.33	0.000
	27.9474 - 25.6184		5386183.33	7940741.33	0.678	0.00	7940741.33	0.000
	25.6184 - 23.2895		5488000.00	8071266.67	0.680	0.00	8071266.67	0.000
	23.2895 - 20.9605		5590291.67	8201983.33	0.682	0.00	8201983.33	0.000
	20.9605 - 18.6316		5693050.00	8332883.33	0.683	0.00	8332883.33	0.000
	18.6316 - 16.3026		5796283.33	8463916.67	0.685	0.00	8463916.67	0.000
	16.3026 - 13.9737		5899974.67	8595083.33	0.686	0.00	8595083.33	0.000
	13.9737 - 11.6447		6004116.67	8726333.33	0.688	0.00	8726333.33	0.000
	11.6447 - 9.31579		6108716.67	8857666.67	0.690	0.00	8857666.67	0.000
	9.31579 - 6.98684		6213750.00	8989083.33	0.691	0.00	8989083.33	0.000
	6.98684 -		6319233.33	9120500.00	0.693	0.00	9120500.00	0.000

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{rx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} lb-ft	ϕM_{ry} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
	4.65789							
	4.65789 - 2.32895		6425141.33	9251916.67	0.694	0.00	9251916.67	0.000
	2.32895 - 0		6531483.33	9383250.00	0.696	0.00	9383250.00	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	195 - 194	TP22.4475x18x0.1875	56.68	189138.00	0.000	0.00	299953.33	0.000
	194 - 193		113.90	192235.00	0.001	0.00	309856.67	0.000
	193 - 192		172.02	195332.00	0.001	0.00	319920.00	0.000
	192 - 191		231.03	198429.00	0.001	0.00	330144.17	0.000
	191 - 190		8262.02	198429.00	0.042	0.00	340530.00	0.000
	190 - 189		8322.55	201526.00	0.041	0.00	351075.83	0.000
	189 - 188		8383.73	204622.00	0.041	0.00	361782.50	0.000
	188 - 187		8445.58	207719.00	0.041	0.00	372650.00	0.000
	187 - 186		8508.09	210816.00	0.040	0.00	383678.33	0.000
	186 - 185		8571.27	213913.00	0.040	0.00	394868.33	0.000
	185 - 184		8635.14	217009.00	0.040	0.00	406218.33	0.000
	184 - 183		8699.69	220106.00	0.040	0.00	417729.17	0.000
	183 - 182		8764.93	223203.00	0.039	0.00	429400.83	0.000
	182 - 181		8830.87	226300.00	0.039	0.00	441233.33	0.000
	181 - 180		8897.51	229397.00	0.039	0.00	453226.67	0.000
L2	180 - 178.079	TP34.6781x22.4475x0.25	9039.70	309121.00	0.029	0.00	632148.33	0.000
	178.079 - 176.158		9184.21	317053.00	0.029	0.01	664175.00	0.000
	176.158 - 174.237		20308.40	332917.00	0.061	0.03	696992.50	0.000
	174.237 - 172.316		20449.90	332917.00	0.061	0.03	730600.83	0.000
	172.316 - 170.395		20594.90	340849.00	0.060	0.01	765000.83	0.000
	170.395 - 168.474		20740.90	348781.00	0.059	0.01	800192.50	0.000
	168.474 - 166.553		20888.00	356713.00	0.059	0.05	836175.00	0.000
	166.553 - 164.632		21036.20	364645.00	0.058	0.09	872950.00	0.000
	164.632 - 162.711		28881.00	380510.00	0.076	0.16	910516.67	0.000
	162.711 - 160.789		29021.30	380510.00	0.076	0.29	948875.00	0.000
	160.789 - 158.868		29165.50	388442.00	0.075	0.37	988016.67	0.000
	158.868 - 156.947		29310.00	396374.00	0.074	0.47	1027958.33	0.000
	156.947 - 155.026		29455.00	404306.00	0.073	0.58	1068691.67	0.000
	155.026 - 153.105		29600.40	412238.00	0.072	0.71	1110216.67	0.000
	153.105 - 151.184		29746.40	420170.00	0.071	0.85	1152525.00	0.000
	151.184 - 149.263		29893.20	428102.00	0.070	1.01	1195633.33	0.000

tnxTower

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Client	The Towers, LLC

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Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L3	149.263 - 147.342	TP48.4843x32.7698x0.3125	30040.70	436034.00	0.069	1.19	1239525.00	0.000
	147.342 - 145.421		30191.30	443966.00	0.068	0.60	1284216.67	0.000
	145.421 - 143.5		30340.60	451898.00	0.067	0.70	1329691.67	0.000
	143.5 - 138.75		14211.90	459831.00	0.031	0.83	1445541.67	0.000
	138.75 - 136.444		16637.80	564997.00	0.029	1.00	1748366.67	0.000
	136.444 - 134.139		31041.80	589513.00	0.053	2.12	1819658.33	0.000
	134.139 - 131.833		31237.60	601412.00	0.052	2.41	1892383.33	0.000
	131.833 - 129.528		31439.80	625212.00	0.050	1.72	1966525.00	0.000
	129.528 - 127.222		31638.30	637111.00	0.050	1.94	2042100.00	0.000
	127.222 - 124.917		31838.00	649011.00	0.049	2.13	2119091.67	0.000
	124.917 - 122.611		33668.80	660911.00	0.051	1016.70	2197516.67	0.000
	122.611 - 120.306		33986.70	672810.00	0.051	988.26	2277358.33	0.000
	120.306 - 118		34188.50	684710.00	0.050	987.90	2358625.00	0.000
	118 - 115.694		34391.60	696610.00	0.049	987.55	2441316.67	0.000
	115.694 - 113.389		34596.00	708509.00	0.049	987.21	2525441.67	0.000
	113.389 - 111.083		34801.70	720409.00	0.048	986.88	2610983.33	0.000
	111.083 - 108.778		35008.80	732309.00	0.048	986.56	2697950.00	0.000
	108.778 - 106.472		35217.20	744208.00	0.047	986.24	2786341.67	0.000
	106.472 - 104.167		35427.10	756108.00	0.047	985.91	2876166.67	0.000
	104.167 - 101.861		35638.40	768008.00	0.046	985.62	2967408.33	0.000
101.861 - 99.5556	35851.00	779907.00	0.046	985.37	3060075.00	0.000		
99.5556 - 97.25	36065.10	791807.00	0.046	985.07	3154166.67	0.000		
97.25 - 90.5	36280.70	803707.00	0.045	984.81	3249683.33	0.000		
90.5 - 88.4028	17494.70	838545.00	0.021	458.26	3537516.67	0.000		
88.4028 - 86.3056	19647.60	991893.00	0.020	526.24	4124716.67	0.000		
86.3056 - 84.2083	37323.80	1004880.00	0.037	984.29	4233458.33	0.000		
84.2083 - 82.1111	37528.10	1017870.00	0.037	984.08	4343608.33	0.000		
82.1111 - 80.0139	37732.80	1030860.00	0.037	983.94	4455175.00	0.000		
80.0139 - 77.9167	37937.80	1043850.00	0.036	983.77	4568158.33	0.000		
77.9167 - 75.8194	38143.10	1056840.00	0.036	983.61	4682550.00	0.000		
75.8194 - 73.7222	38348.80	1069830.00	0.036	983.42	4798366.67	0.000		
73.7222 -	38554.80	1082820.00	0.036	983.27	4915591.67	0.000		
	38761.10	1095810.00	0.035	983.13	5034233.33	0.000		
	38967.70	1108800.00	0.035	982.98	5154283.33	0.000		

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
	71.625							
	71.625 - 69.5278		39174.60	1121790.00	0.035	982.86	5275758.33	0.000
	69.5278 - 67.4306		39381.90	1134780.00	0.035	982.77	5398641.67	0.000
	67.4306 - 65.3333		39589.50	1147760.00	0.034	982.61	5522933.33	0.000
	65.3333 - 63.2361		39797.40	1160750.00	0.034	982.50	5648650.00	0.000
	63.2361 - 61.1389		40005.60	1173740.00	0.034	982.39	5775783.33	0.000
	61.1389 - 59.0417		40214.20	1186730.00	0.034	982.28	5904324.67	0.000
	59.0417 - 56.9444		40423.00	1199720.00	0.034	982.19	6034283.33	0.000
	56.9444 - 54.8472		40632.20	1212710.00	0.034	982.10	6165650.00	0.000
	54.8472 - 52.75		40841.60	1225700.00	0.033	982.06	6298441.33	0.000
	52.75 - 44.25		20073.20	1278350.00	0.016	463.17	6851108.00	0.000
L5	52.75 - 44.25	TP73.9425x58.3021x0.4375	21881.60	1471600.00	0.015	518.73	7782133.33	0.000
	44.25 - 41.9211		42143.90	1488430.00	0.028	981.79	7961133.33	0.000
	41.9211 - 39.5921		42366.20	1505260.00	0.028	981.77	8142174.67	0.000
	39.5921 - 37.2632		42586.30	1522090.00	0.028	981.66	8325241.33	0.000
	37.2632 - 34.9342		42804.10	1538920.00	0.028	981.60	8510333.33	0.000
	34.9342 - 32.6053		43019.60	1555740.00	0.028	981.55	8697500.00	0.000
	32.6053 - 30.2763		43232.70	1572570.00	0.027	981.50	8886666.67	0.000
	30.2763 - 27.9474		43443.50	1589400.00	0.027	981.50	9077916.67	0.000
	27.9474 - 25.6184		43652.00	1606230.00	0.027	981.46	9271166.67	0.000
	25.6184 - 23.2895		43858.20	1623060.00	0.027	981.38	9466416.67	0.000
	23.2895 - 20.9605		44062.00	1639890.00	0.027	981.39	9663750.00	0.000
	20.9605 - 18.6316		44263.50	1656720.00	0.027	981.36	9863083.33	0.000
	18.6316 - 16.3026		44462.70	1673540.00	0.027	981.33	10064500.00	0.000
	16.3026 - 13.9737		44659.50	1690370.00	0.026	981.32	10267916.67	0.000
	13.9737 - 11.6447		44854.00	1707200.00	0.026	981.24	10473416.67	0.000
	11.6447 - 9.31579		45046.10	1724030.00	0.026	981.27	10680916.67	0.000
	9.31579 - 6.98684		45235.80	1740860.00	0.026	981.22	10890416.67	0.000
	6.98684 - 4.65789		45423.20	1757690.00	0.026	981.21	11102000.00	0.000
	4.65789 - 2.32895		45608.30	1774520.00	0.026	981.20	11315582.67	0.000
	2.32895 - 0		45791.00	1791340.00	0.026	981.20	11531249.33	0.000

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
	162.711 - 160.789	0.011	0.509	0.000	0.076	0.000	0.526	1.000	4.8.2 ✓
	160.789 - 158.868	0.011	0.552	0.000	0.075	0.000	0.568	1.000	4.8.2 ✓
	158.868 - 156.947	0.011	0.591	0.000	0.074	0.000	0.608	1.000	4.8.2 ✓
	156.947 - 155.026	0.011	0.628	0.000	0.073	0.000	0.645	1.000	4.8.2 ✓
	155.026 - 153.105	0.011	0.664	0.000	0.072	0.000	0.680	1.000	4.8.2 ✓
	153.105 - 151.184	0.011	0.696	0.000	0.071	0.000	0.712	1.000	4.8.2 ✓
	151.184 - 149.263	0.011	0.728	0.000	0.070	0.000	0.743	1.000	4.8.2 ✓
	149.263 - 147.342	0.011	0.757	0.000	0.069	0.000	0.773	1.000	4.8.2 ✓
	147.342 - 145.421	0.011	0.785	0.000	0.068	0.000	0.800	1.000	4.8.2 ✓
	145.421 - 143.5	0.011	0.811	0.000	0.067	0.000	0.827	1.000	4.8.2 ✓
	143.5 - 138.75	0.005	0.398	0.000	0.031	0.000	0.404	1.000	4.8.2 ✓
L3	143.5 - 138.75	0.005	0.362	0.000	0.029	0.000	0.368	1.000	4.8.2 ✓
	138.75 - 136.444	0.010	0.685	0.000	0.053	0.000	0.697	1.000	4.8.2 ✓
	136.444 - 134.139	0.010	0.702	0.000	0.052	0.000	0.714	1.000	4.8.2 ✓
	134.139 - 131.833	0.010	0.718	0.000	0.050	0.000	0.731	1.000	4.8.2 ✓
	131.833 - 129.528	0.010	0.734	0.000	0.050	0.000	0.746	1.000	4.8.2 ✓
	129.528 - 127.222	0.010	0.748	0.000	0.049	0.000	0.760	1.000	4.8.2 ✓
	127.222 - 124.917	0.010	0.762	0.000	0.051	0.000	0.774	1.000	4.8.2 ✓
	124.917 - 122.611	0.010	0.776	0.000	0.051	0.000	0.789	1.000	4.8.2 ✓
	122.611 - 120.306	0.010	0.790	0.000	0.050	0.000	0.803	1.000	4.8.2 ✓
	120.306 - 118	0.010	0.803	0.000	0.049	0.000	0.816	1.000	4.8.2 ✓
	118 - 115.694	0.010	0.816	0.000	0.049	0.000	0.829	1.000	4.8.2 ✓
	115.694 - 113.389	0.011	0.828	0.000	0.048	0.000	0.841	1.000	4.8.2 ✓
	113.389 - 111.083	0.011	0.839	0.000	0.048	0.000	0.852	1.000	4.8.2 ✓
	111.083 - 108.778	0.011	0.850	0.000	0.047	0.000	0.863	1.000	4.8.2 ✓
	108.778 -	0.011	0.860	0.000	0.047	0.000	0.873	1.000	4.8.2 ✓

tnxTower

Nello Corporation
 1201 S. Sheridan Street
 South Bend, IN. 46619
 Phone: 800-806-3556
 FAX:

Job	SO31895; Tower 661441; Foundation 661442
Project	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY
Client	The Towers, LLC

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Designed by	AG

Section No.	Elevation ft	Ratio	Ratio	Ratio	Ratio	Ratio	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		P_u	M_{ux}	M_{uy}	V_u	T_u			
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
	106.472						✓		
	106.472 - 104.167	0.011	0.870	0.000	0.046	0.000	0.883	1.000	4.8.2 ✓
	104.167 - 101.861	0.011	0.880	0.000	0.046	0.000	0.893	1.000	4.8.2 ✓
	101.861 - 99.5556	0.011	0.889	0.000	0.046	0.000	0.902	1.000	4.8.2 ✓
	99.5556 - 97.25	0.011	0.898	0.000	0.045	0.000	0.911	1.000	4.8.2 ✓
	97.25 - 90.5	0.005	0.430	0.000	0.021	0.000	0.436	1.000	4.8.2 ✓
L4	97.25 - 90.5	0.005	0.392	0.000	0.020	0.000	0.398	1.000	4.8.2 ✓
	90.5 - 88.4028	0.010	0.738	0.000	0.037	0.000	0.749	1.000	4.8.2 ✓
	88.4028 - 86.3056	0.010	0.742	0.000	0.037	0.000	0.754	1.000	4.8.2 ✓
	86.3056 - 84.2083	0.010	0.746	0.000	0.037	0.000	0.758	1.000	4.8.2 ✓
	84.2083 - 82.1111	0.010	0.751	0.000	0.036	0.000	0.762	1.000	4.8.2 ✓
	82.1111 - 80.0139	0.010	0.755	0.000	0.036	0.000	0.766	1.000	4.8.2 ✓
	80.0139 - 77.9167	0.010	0.758	0.000	0.036	0.000	0.770	1.000	4.8.2 ✓
	77.9167 - 75.8194	0.011	0.762	0.000	0.036	0.000	0.774	1.000	4.8.2 ✓
	75.8194 - 73.7222	0.011	0.766	0.000	0.035	0.000	0.778	1.000	4.8.2 ✓
	73.7222 - 71.625	0.011	0.769	0.000	0.035	0.000	0.781	1.000	4.8.2 ✓
	71.625 - 69.5278	0.011	0.773	0.000	0.035	0.000	0.785	1.000	4.8.2 ✓
	69.5278 - 67.4306	0.011	0.776	0.000	0.035	0.000	0.788	1.000	4.8.2 ✓
	67.4306 - 65.3333	0.011	0.780	0.000	0.034	0.000	0.792	1.000	4.8.2 ✓
	65.3333 - 63.2361	0.011	0.783	0.000	0.034	0.000	0.795	1.000	4.8.2 ✓
	63.2361 - 61.1389	0.011	0.786	0.000	0.034	0.000	0.799	1.000	4.8.2 ✓
	61.1389 - 59.0417	0.011	0.790	0.000	0.034	0.000	0.802	1.000	4.8.2 ✓
	59.0417 - 56.9444	0.011	0.793	0.000	0.034	0.000	0.805	1.000	4.8.2 ✓
	56.9444 - 54.8472	0.011	0.796	0.000	0.034	0.000	0.808	1.000	4.8.2 ✓
	54.8472 - 52.75	0.011	0.799	0.000	0.033	0.000	0.811	1.000	4.8.2 ✓
	52.75 - 44.25	0.006	0.383	0.000	0.016	0.000	0.389	1.000	4.8.2 ✓
L5	52.75 - 44.25	0.006	0.351	0.000	0.015	0.000	0.357	1.000	4.8.2 ✓

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 46 of 47
	Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:35:58 04/23/24
	Client The Towers, LLC	Designed by AG

Section No.	Elevation ft	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Ratio $\frac{V_u}{\phi V_n}$	Ratio $\frac{T_u}{\phi T_n}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	44.25 - 41.9211	0.011	0.666	0.000	0.028	0.000	0.678	1.000	4.8.2 ✓
	41.9211 - 39.5921	0.011	0.668	0.000	0.028	0.000	0.680	1.000	4.8.2 ✓
	39.5921 - 37.2632	0.011	0.670	0.000	0.028	0.000	0.682	1.000	4.8.2 ✓
	37.2632 - 34.9342	0.011	0.672	0.000	0.028	0.000	0.683	1.000	4.8.2 ✓
	34.9342 - 32.6053	0.011	0.673	0.000	0.028	0.000	0.685	1.000	4.8.2 ✓
	32.6053 - 30.2763	0.011	0.675	0.000	0.027	0.000	0.687	1.000	4.8.2 ✓
	30.2763 - 27.9474	0.011	0.677	0.000	0.027	0.000	0.689	1.000	4.8.2 ✓
	27.9474 - 25.6184	0.011	0.678	0.000	0.027	0.000	0.690	1.000	4.8.2 ✓
	25.6184 - 23.2895	0.012	0.680	0.000	0.027	0.000	0.692	1.000	4.8.2 ✓
	23.2895 - 20.9605	0.012	0.682	0.000	0.027	0.000	0.694	1.000	4.8.2 ✓
	20.9605 - 18.6316	0.012	0.683	0.000	0.027	0.000	0.696	1.000	4.8.2 ✓
	18.6316 - 16.3026	0.012	0.685	0.000	0.027	0.000	0.697	1.000	4.8.2 ✓
	16.3026 - 13.9737	0.012	0.686	0.000	0.026	0.000	0.699	1.000	4.8.2 ✓
	13.9737 - 11.6447	0.012	0.688	0.000	0.026	0.000	0.701	1.000	4.8.2 ✓
	11.6447 - 9.31579	0.012	0.690	0.000	0.026	0.000	0.702	1.000	4.8.2 ✓
	9.31579 - 6.98684	0.012	0.691	0.000	0.026	0.000	0.704	1.000	4.8.2 ✓
	6.98684 - 4.65789	0.012	0.693	0.000	0.026	0.000	0.706	1.000	4.8.2 ✓
	4.65789 - 2.32895	0.012	0.694	0.000	0.026	0.000	0.707	1.000	4.8.2 ✓
	2.32895 - 0	0.012	0.696	0.000	0.026	0.000	0.709	1.000	4.8.2 ✓

¹ $P_u / \phi P_n$ controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	195 - 180	Pole	TP22.4475x18x0.1875	1	-3958.10	774978.00	23.0	Pass

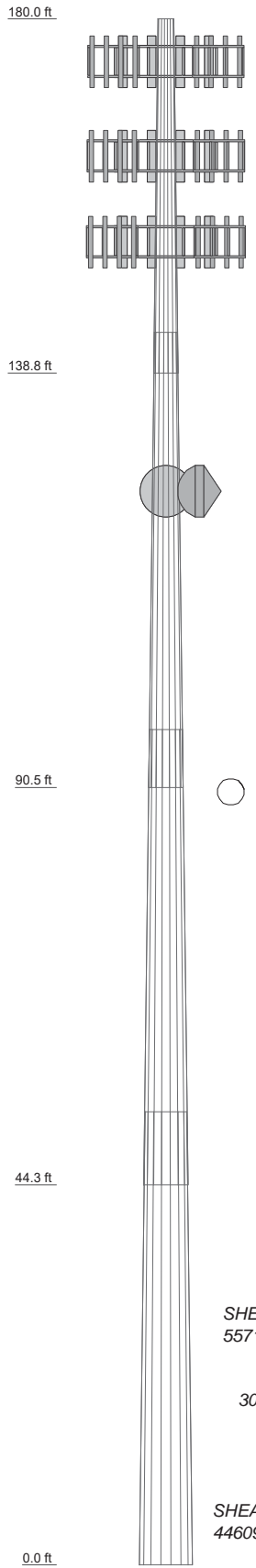
tnxTower

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Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:35:58 04/23/24
Client The Towers, LLC	Designed by AG

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
L2	180 - 138.75	Pole	TP34.6781x22.4475x0.25	2	-17068.50	1532770.00	82.7	Pass	
L3	138.75 - 90.5	Pole	TP48.4843x32.7698x0.3125	3	-29633.00	2679020.00	91.1	Pass	
L4	90.5 - 44.25	Pole	TP61.5724x45.8579x0.375	4	-46360.20	4085670.00	81.1	Pass	
L5	44.25 - 0	Pole	TP73.9425x58.3021x0.4375	5	-73986.30	5971150.00	70.9	Pass	
							Summary		
							Pole (L3)	91.1	Pass
							Base Plate	85.3	Pass
							RATING =	91.1	Pass

Section	1	2	3	4	
Length (ft)	41.25	53.00	53.00	52.75	
Number of Sides	18	18	18	18	
Thickness (in)	0.2500	0.3125	0.3750	0.4375	
Socket Length (ft)	4.75	6.75	8.50	58.3021	
Top Dia (in)	22.4475	32.7698	45.8579	73.9425	
Bot Dia (in)	34.6781	48.4843	61.5724	18009.5	
Grade			A572-65		
Weight (lb)	3468.8	7932.7	12594.9	18009.5	42005.9



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
42,000 sq in CaAa	175	Dish Pipe Mount	125
30,000 sq in CaAa	164	Clamp Ring Assembly	125
30,000 sq in CaAa	154	6' Solid w/Radome	125
Dish Pipe Mount	125		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 106 mph ultimate wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 30 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 78.1%

0.0 ft

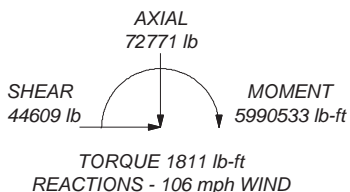
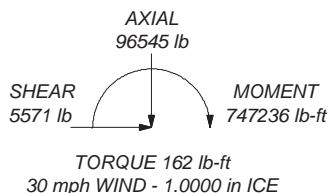
44.3 ft

90.5 ft

138.8 ft

180.0 ft

ALL REACTIONS
ARE FACTORED



Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job: SO31895; Tower 661441; Foundation 661442
	Project: NP 180' - US-KY-5182 / Fairway - Taylor Co., KY
	Client: The Towers, LLC Drawn by: AG App'd:
	Code: TIA-222-H Date: 04/26/24 Scale: NTS
	Path: N:\eri\6614\661441.eri Dwg No. E-1

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 1 of 44
	Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:43:03 04/23/24
	Client The Towers, LLC	Designed by AG

Tower Input Data

The tower is a monopole.

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

The following design criteria apply:

- Tower base elevation above sea level: 0.00 ft.
- Ultimate wind speed of 106 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.0000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 30 mph is used in combination with ice.
- Temperature drop of 50 °F.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in pole design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity √ Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) √ SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r √ Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. √ Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component √ Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces √ Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression √ All Leg Panels Have Same Allowable Offset Girt At Foundation Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|---|---|

Tapered Pole Section Geometry

Section	Elevation	Section Length	Splice Length	Number of Sides	Top Diameter	Bottom Diameter	Wall Thickness	Bend Radius	Pole Grade
	ft	ft	ft		in	in	in	in	

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Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	180.00-138.75	41.25	4.75	18	22.4475	34.6781	0.2500	1.0000	A572-65 (65 ksi)
L2	138.75-90.50	53.00	6.75	18	32.7698	48.4843	0.3125	1.2500	A572-65 (65 ksi)
L3	90.50-44.25	53.00	8.50	18	45.8579	61.5724	0.3750	1.5000	A572-65 (65 ksi)
L4	44.25-0.00	52.75		18	58.3021	73.9425	0.4375	1.7500	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	22.7552	17.6137	1096.4695	7.8801	11.4033	96.1535	2194.3819	8.8085	3.5108	14.043
	35.1745	27.3187	4090.9530	12.2220	17.6165	232.2230	8187.2891	13.6620	5.6634	22.653
L2	34.6572	32.1935	4284.7901	11.5223	16.6470	257.3906	8575.2183	16.0998	5.2175	16.696
	49.1840	47.7804	14007.8559	17.1010	24.6300	568.7315	28034.1437	23.8947	7.9832	25.546
L3	48.5397	54.1360	14148.7922	16.1464	23.2958	607.3538	28316.2017	27.0731	7.4110	19.763
	62.4644	72.8402	34464.6619	21.7251	31.2788	1101.8549	68974.6732	36.4270	10.1767	27.138
L4	61.6932	80.3523	33990.8370	20.5419	29.6175	1147.6614	68026.4000	40.1838	9.4912	21.694
	75.0157	102.0709	69674.3741	26.0943	37.5628	1854.8775	139440.427	51.0451	12.2439	27.986

4

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontal in	Double Angle Stitch Bolt Spacing Redundants in
L1 180.00-138.75				1	1	1.1			
L2 138.75-90.50				1	1	1.1			
L3 90.50-44.25				1	1	1.1			
L4 44.25-0.00				1	1	1.1			

Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	18
Embedment length	60.0000 in
p _c	4 ksi
Grout space	3.3750 in
Base plate grade	A572-50
Base plate thickness	2.5000 in
Bolt circle diameter	81.0000 in
Outer diameter	87.0000 in
Inner diameter	70.2500 in

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	Client The Towers, LLC	Designed by AG

Base Plate Data	
Base plate type	Plain Plate

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
LDF7-50A (1-5/8 FOAM)	C	No	Yes	Inside Pole	175.00 - 0.00	18	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	B	No	Yes	Inside Pole	164.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
LDF7-50A (1-5/8 FOAM)	A	No	Yes	Inside Pole	154.00 - 0.00	12	No Ice	0.00	0.82
							1/2" Ice	0.00	0.82
							1" Ice	0.00	0.82
EW63	C	No	Yes	Inside Pole	125.00 - 0.00	2	No Ice	0.00	0.51
							1/2" Ice	0.00	0.51
							1" Ice	0.00	0.51

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	180.00-138.75	A	0.000	0.000	0.000	0.000	150.06
		B	0.000	0.000	0.000	0.000	248.46
		C	0.000	0.000	0.000	0.000	535.05
L2	138.75-90.50	A	0.000	0.000	0.000	0.000	474.78
		B	0.000	0.000	0.000	0.000	474.78
		C	0.000	0.000	0.000	0.000	747.36
L3	90.50-44.25	A	0.000	0.000	0.000	0.000	455.10
		B	0.000	0.000	0.000	0.000	455.10
		C	0.000	0.000	0.000	0.000	729.83
L4	44.25-0.00	A	0.000	0.000	0.000	0.000	435.42
		B	0.000	0.000	0.000	0.000	435.42
		C	0.000	0.000	0.000	0.000	698.26

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	180.00-138.75	A	1.170	0.000	0.000	0.000	0.000	150.06
		B		0.000	0.000	0.000	0.000	248.46
		C		0.000	0.000	0.000	0.000	535.05
L2	138.75-90.50	A	1.131	0.000	0.000	0.000	0.000	474.78
		B		0.000	0.000	0.000	0.000	474.78
		C		0.000	0.000	0.000	0.000	747.36
L3	90.50-44.25	A	1.073	0.000	0.000	0.000	0.000	455.10

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Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L4	44.25-0.00	B	0.962	0.000	0.000	0.000	0.000	455.10
		C		0.000	0.000	0.000	0.000	729.83
		A		0.000	0.000	0.000	0.000	435.42
		B		0.000	0.000	0.000	0.000	435.42
		C		0.000	0.000	0.000	0.000	698.26

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb	
42,000 sq in CaAa	C	None		0.0000	175.00	No Ice	292.00	292.00	4964.00
						1/2" Ice	350.00	350.00	6652.00
						1" Ice	408.00	408.00	8340.00
30,000 sq in CaAa	B	None		0.0000	164.00	No Ice	208.00	208.00	3536.00
						1/2" Ice	250.00	250.00	4738.00
						1" Ice	292.00	292.00	5940.00
30,000 sq in CaAa	A	None		0.0000	154.00	No Ice	208.00	208.00	3536.00
						1/2" Ice	250.00	250.00	4738.00
						1" Ice	292.00	292.00	5940.00
Dish Pipe Mount	B	From Leg	0.00 0.00 0.00	0.0000	125.00	No Ice	0.00	1.80	103.00
						1/2" Ice	0.00	2.10	119.00
						1" Ice	0.00	2.40	135.00
Dish Pipe Mount	A	From Leg	0.00 0.00 0.00	0.0000	125.00	No Ice	0.00	1.80	103.00
						1/2" Ice	0.00	2.10	119.00
						1" Ice	0.00	2.40	135.00
Clamp Ring Assembly	A	None		0.0000	125.00	No Ice	0.01	0.01	231.00
						1/2" Ice	0.01	0.01	340.25
						1" Ice	0.01	0.01	449.49

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight lb	
6' Solid w/Radome	A	Paraboloid w/Radome	From Leg	0.00 0.00 0.00	0.0000		125.00	6.00	No Ice	28.27	162.00
									1/2" Ice	29.07	321.00
									1" Ice	29.86	480.00
6' Solid w/Radome	B	Paraboloid w/Radome	From Leg	0.00 0.00 0.00	0.0000		125.00	6.00	No Ice	28.27	162.00
									1/2" Ice	29.07	321.00
									1" Ice	29.86	480.00

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Tower Pressures - No Ice

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	C_{AA} In Face ft ²	C_{AA} Out Face ft ²
L1 180.00-138.75	158.04	1.394	38	99.567	A	0.000	99.567	99.567	100.00	0.000	0.000
					B	0.000	99.567		100.00	0.000	0.000
					C	0.000	99.567		100.00	0.000	0.000
L2 138.75-90.50	113.50	1.3	35	168.556	A	0.000	168.556	168.556	100.00	0.000	0.000
					B	0.000	168.556		100.00	0.000	0.000
					C	0.000	168.556		100.00	0.000	0.000
L3 90.50-44.25	66.83	1.163	32	213.914	A	0.000	213.914	213.914	100.00	0.000	0.000
					B	0.000	213.914		100.00	0.000	0.000
					C	0.000	213.914		100.00	0.000	0.000
L4 44.25-0.00	22.32	0.923	25	252.057	A	0.000	252.057	252.057	100.00	0.000	0.000
					B	0.000	252.057		100.00	0.000	0.000
					C	0.000	252.057		100.00	0.000	0.000

Tower Pressure - With Ice

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	t_z in	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	C_{AA} In Face ft ²	C_{AA} Out Face ft ²
L1 180.00-138.75	158.04	1.394	3	1.1696	107.608	A	0.000	107.608	107.608	100.00	0.000	0.000
						B	0.000	107.608		100.00	0.000	0.000
						C	0.000	107.608		100.00	0.000	0.000
L2 138.75-90.50	113.50	1.3	3	1.1315	177.961	A	0.000	177.961	177.961	100.00	0.000	0.000
						B	0.000	177.961		100.00	0.000	0.000
						C	0.000	177.961		100.00	0.000	0.000
L3 90.50-44.25	66.83	1.163	3	1.0731	222.636	A	0.000	222.636	222.636	100.00	0.000	0.000
						B	0.000	222.636		100.00	0.000	0.000
						C	0.000	222.636		100.00	0.000	0.000
L4 44.25-0.00	22.32	0.923	2	0.9616	259.971	A	0.000	259.971	259.971	100.00	0.000	0.000
						B	0.000	259.971		100.00	0.000	0.000
						C	0.000	259.971		100.00	0.000	0.000

Tower Pressure - Service

$G_H = 1.100$

Section Elevation ft	z ft	K_Z	q_z psf	A_G ft ²	F a c e	A_F ft ²	A_R ft ²	A_{leg} ft ²	Leg %	C_{AA} In Face ft ²	C_{AA} Out Face ft ²
L1 180.00-138.75	158.04	1.394	11	99.567	A	0.000	99.567	99.567	100.00	0.000	0.000
					B	0.000	99.567		100.00	0.000	0.000
					C	0.000	99.567		100.00	0.000	0.000
L2	113.50	1.3	10	168.556	A	0.000	168.556	168.556	100.00	0.000	0.000

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Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F _a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
138.75-90.50					B	0.000	168.556		100.00	0.000	0.000
L3 90.50-44.25	66.83	1.163	9	213.914	C	0.000	168.556		100.00	0.000	0.000
					A	0.000	213.914	213.914	100.00	0.000	0.000
					B	0.000	213.914		100.00	0.000	0.000
L4 44.25-0.00	22.32	0.923	7	252.057	C	0.000	213.914		100.00	0.000	0.000
					A	0.000	252.057	252.057	100.00	0.000	0.000
					B	0.000	252.057		100.00	0.000	0.000
					C	0.000	252.057		100.00	0.000	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F _a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2 138.75-90.50	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L3 90.50-44.25	1640.03	12594.94	A	1	0.73	32	1	1	213.914	5436.48	117.55	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L4 44.25-0.00	1569.11	18009.45	A	1	0.73	25	1	1	252.057	5101.46	115.29	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	5839.62	42005.94						OTM	1502958.1 0 lb-ft	18381.70		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F _a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2 138.75-90.50	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L3 90.50-44.25	1640.03	12594.94	A	1	0.73	32	1	1	213.914	5436.48	117.55	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L4 44.25-0.00	1569.11	18009.45	A	1	0.73	25	1	1	252.057	5101.46	115.29	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	5839.62	42005.94						OTM	1502958.1 0 lb-ft	18381.70		

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Tower Forces - No Ice - Wind 90 To Face

Section Elevation <i>ft</i>	Add Weight <i>lb</i>	Self Weight <i>lb</i>	F a c e	<i>e</i>	C_F	q_z <i>psf</i>	D_F	D_R	A_E <i>ft²</i>	F <i>lb</i>	w <i>plf</i>	Ctrl. Face
L1 180.00-138.75	933.57	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2 138.75-90.50	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L3 90.50-44.25	1640.03	12594.94	A	1	0.73	32	1	1	213.914	5436.48	117.55	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L4 44.25-0.00	1569.11	18009.45	A	1	0.73	25	1	1	252.057	5101.46	115.29	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	5839.62	42005.94						OTM	1502958.1 0 lb-ft	18381.70		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation <i>ft</i>	Add Weight <i>lb</i>	Self Weight <i>lb</i>	F a c e	<i>e</i>	C_F	q_z <i>psf</i>	D_F	D_R	A_E <i>ft²</i>	F <i>lb</i>	w <i>plf</i>	Ctrl. Face
L1 180.00-138.75	933.57	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L2 138.75-90.50	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L3 90.50-44.25	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
			B	1	1.2		1	1	222.186			
			C	1	1.2		1	1	222.186			
L4 44.25-0.00	1569.11	21599.14	A	1	1.2	2	1	1	259.149	690.61	15.61	C
			B	1	1.2		1	1	259.149			
			C	1	1.2		1	1	259.149			
Sum Weight:	5839.62	53645.35						OTM	209153.99 lb-ft	2533.39		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation <i>ft</i>	Add Weight <i>lb</i>	Self Weight <i>lb</i>	F a c e	<i>e</i>	C_F	q_z <i>psf</i>	D_F	D_R	A_E <i>ft²</i>	F <i>lb</i>	w <i>plf</i>	Ctrl. Face
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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L2 138.75-90.50	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L3 90.50-44.25	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
			B	1	1.2		1	1	222.186			
			C	1	1.2		1	1	222.186			
L4 44.25-0.00	1569.11	21599.14	A	1	1.2	2	1	1	259.149	690.61	15.61	C
			B	1	1.2		1	1	259.149			
			C	1	1.2		1	1	259.149			
Sum Weight:	5839.62	53645.35						OTM	209153.99 lb-ft	2533.39		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L2 138.75-90.50	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L3 90.50-44.25	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
			B	1	1.2		1	1	222.186			
			C	1	1.2		1	1	222.186			
L4 44.25-0.00	1569.11	21599.14	A	1	1.2	2	1	1	259.149	690.61	15.61	C
			B	1	1.2		1	1	259.149			
			C	1	1.2		1	1	259.149			
Sum Weight:	5839.62	53645.35						OTM	209153.99 lb-ft	2533.39		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2 138.75-90.50	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L3	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C

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	Client The Towers, LLC	Designed by AG

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
90.50-44.25			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L4 44.25-0.00	1569.11	18009.45	A	1	0.73	7	1	1	252.057	1462.45	33.05	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	5839.62	42005.94						OTM	430856.81 lb-ft	5269.53		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2 138.75-90.50	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L3 90.50-44.25	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L4 44.25-0.00	1569.11	18009.45	A	1	0.73	7	1	1	252.057	1462.45	33.05	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	5839.62	42005.94						OTM	430856.81 lb-ft	5269.53		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 180.00-138.75	933.57	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2 138.75-90.50	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L3 90.50-44.25	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C
			B	1	0.73		1	1	213.914			
			C	1	0.73		1	1	213.914			
L4 44.25-0.00	1569.11	18009.45	A	1	0.73	7	1	1	252.057	1462.45	33.05	C
			B	1	0.73		1	1	252.057			
			C	1	0.73		1	1	252.057			
Sum Weight:	5839.62	42005.94						OTM	430856.81 lb-ft	5269.53		

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	Client The Towers, LLC	Designed by AG

Mast Vectors - No Ice

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	180.00-138.75	0	Wind Normal	3043.15	0.00	-3043.15	-480938.19	0.00	0.00
		30	Wind 90	3043.15	1521.57	-2635.45	-416504.69	-240469.10	0.00
		60	Wind 60	3043.15	2635.45	-1521.57	-240469.10	-416504.69	0.00
		90	Wind 90	3043.15	3043.15	0.00	0.00	-480938.19	0.00
		120	Wind Normal	3043.15	2635.45	1521.57	240469.10	-416504.69	0.00
		150	Wind 90	3043.15	1521.57	2635.45	416504.69	-240469.10	0.00
		180	Wind 60	3043.15	0.00	3043.15	480938.19	0.00	0.00
		210	Wind 90	3043.15	-1521.57	2635.45	416504.69	240469.10	0.00
		240	Wind Normal	3043.15	-2635.45	1521.57	240469.10	416504.69	0.00
		270	Wind 90	3043.15	-3043.15	0.00	0.00	480938.19	0.00
		300	Wind 60	3043.15	-2635.45	-1521.57	-240469.10	416504.69	0.00
		330	Wind 90	3043.15	-1521.57	-2635.45	-416504.69	240469.10	0.00
		L2	138.75-90.50	0	Wind Normal	4800.61	0.00	-4800.61	-544859.02
30	Wind 90			4800.61	2400.31	-4157.45	-471861.75	-272429.51	0.00
60	Wind 60			4800.61	4157.45	-2400.31	-272429.51	-471861.75	0.00
90	Wind 90			4800.61	4800.61	0.00	0.00	-544859.02	0.00
120	Wind Normal			4800.61	4157.45	2400.31	272429.51	-471861.75	0.00
150	Wind 90			4800.61	2400.31	4157.45	471861.75	-272429.51	0.00
180	Wind 60			4800.61	0.00	4800.61	544859.02	0.00	0.00
210	Wind 90			4800.61	-2400.31	4157.45	471861.75	272429.51	0.00
240	Wind Normal			4800.61	-4157.45	2400.31	272429.51	471861.75	0.00
270	Wind 90			4800.61	-4800.61	0.00	0.00	544859.02	0.00
300	Wind 60			4800.61	-4157.45	-2400.31	-272429.51	471861.75	0.00
330	Wind 90			4800.61	-2400.31	-4157.45	-471861.75	272429.51	0.00
L3	90.50-44.25			0	Wind Normal	5436.48	0.00	-5436.48	-363317.64
		30	Wind 90	5436.48	2718.24	-4708.13	-314642.31	-181658.82	0.00
		60	Wind 60	5436.48	4708.13	-2718.24	-181658.82	-314642.31	0.00
		90	Wind 90	5436.48	5436.48	0.00	0.00	-363317.64	0.00
		120	Wind Normal	5436.48	4708.13	2718.24	181658.82	-314642.31	0.00
		150	Wind 90	5436.48	2718.24	4708.13	314642.31	-181658.82	0.00
		180	Wind 60	5436.48	0.00	5436.48	363317.64	0.00	0.00
		210	Wind 90	5436.48	-2718.24	4708.13	314642.31	181658.82	0.00
		240	Wind Normal	5436.48	-4708.13	2718.24	181658.82	314642.31	0.00
		270	Wind 90	5436.48	-5436.48	0.00	0.00	363317.64	0.00
		300	Wind 60	5436.48	-4708.13	-2718.24	-181658.82	314642.31	0.00
		330	Wind 90	5436.48	-2718.24	-4708.13	-314642.31	181658.82	0.00
		L4	44.25-0.00	0	Wind Normal	5101.46	0.00	-5101.46	-113843.25
30	Wind 90			5101.46	2550.73	-4417.99	-98591.15	-56921.62	0.00
60	Wind 60			5101.46	4417.99	-2550.73	-56921.62	-98591.15	0.00
90	Wind 90			5101.46	5101.46	0.00	0.00	-113843.25	0.00
120	Wind Normal			5101.46	4417.99	2550.73	56921.62	-98591.15	0.00
150	Wind 90			5101.46	2550.73	4417.99	98591.15	-56921.62	0.00
180	Wind 60			5101.46	0.00	5101.46	113843.25	0.00	0.00
210	Wind 90			5101.46	-2550.73	4417.99	98591.15	56921.62	0.00
240	Wind Normal			5101.46	-4417.99	2550.73	56921.62	98591.15	0.00
270	Wind 90			5101.46	-5101.46	0.00	0.00	113843.25	0.00
300	Wind 60			5101.46	-4417.99	-2550.73	-56921.62	98591.15	0.00
330	Wind 90			5101.46	-2550.73	-4417.99	-98591.15	56921.62	0.00

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	Client The Towers, LLC	Designed by AG

Mast Totals - No Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-18381.70	-1502958.10	0.00	0.00
30	9190.85	-15919.02	-1301599.90	-751479.05	0.00
60	15919.02	-9190.85	-751479.05	-1301599.90	0.00
90	18381.70	0.00	0.00	-1502958.10	0.00
120	15919.02	9190.85	751479.05	-1301599.90	0.00
150	9190.85	15919.02	1301599.90	-751479.05	0.00
180	0.00	18381.70	1502958.10	0.00	0.00
210	-9190.85	15919.02	1301599.90	751479.05	0.00
240	-15919.02	9190.85	751479.05	1301599.90	0.00
270	-18381.70	0.00	0.00	1502958.10	0.00
300	-15919.02	-9190.85	-751479.05	1301599.90	0.00
330	-9190.85	-15919.02	-1301599.90	751479.05	0.00

Mast Vectors - With Ice

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	180.00-138.75	0	Wind Normal	433.05	0.00	-433.05	-68439.49	0.00	0.00
		30	Wind 90	433.05	216.53	-375.03	-59270.33	-34219.74	0.00
		60	Wind 60	433.05	375.03	-216.53	-34219.74	-59270.33	0.00
		90	Wind 90	433.05	433.05	0.00	0.00	-68439.49	0.00
		120	Wind Normal	433.05	375.03	216.53	34219.74	-59270.33	0.00
		150	Wind 90	433.05	216.53	375.03	59270.33	-34219.74	0.00
		180	Wind 60	433.05	0.00	433.05	68439.49	0.00	0.00
		210	Wind 90	433.05	-216.53	375.03	59270.33	34219.74	0.00
		240	Wind Normal	433.05	-375.03	216.53	34219.74	59270.33	0.00
		270	Wind 90	433.05	-433.05	0.00	0.00	68439.49	0.00
		300	Wind 60	433.05	-375.03	-216.53	-34219.74	59270.33	0.00
		330	Wind 90	433.05	-216.53	-375.03	-59270.33	34219.74	0.00
L2	138.75-90.50	0	Wind Normal	666.22	0.00	-666.22	-75614.76	0.00	0.00
		30	Wind 90	666.22	333.11	-576.97	-65484.30	-37807.38	0.00
		60	Wind 60	666.22	576.97	-333.11	-37807.38	-65484.30	0.00
		90	Wind 90	666.22	666.22	0.00	0.00	-75614.76	0.00
		120	Wind Normal	666.22	576.97	333.11	37807.38	-65484.30	0.00
		150	Wind 90	666.22	333.11	576.97	65484.30	-37807.38	0.00
		180	Wind 60	666.22	0.00	666.22	75614.76	0.00	0.00
		210	Wind 90	666.22	-333.11	576.97	65484.30	37807.38	0.00
		240	Wind Normal	666.22	-576.97	333.11	37807.38	65484.30	0.00
		270	Wind 90	666.22	-666.22	0.00	0.00	75614.76	0.00
		300	Wind 60	666.22	-576.97	-333.11	-37807.38	65484.30	0.00
		330	Wind 90	666.22	-333.11	-576.97	-65484.30	37807.38	0.00
L3	90.50-44.25	0	Wind Normal	743.51	0.00	-743.51	-49688.16	0.00	0.00
		30	Wind 90	743.51	371.75	-643.90	-43031.21	-24844.08	0.00
		60	Wind 60	743.51	643.90	-371.75	-24844.08	-43031.21	0.00
		90	Wind 90	743.51	743.51	0.00	0.00	-49688.16	0.00
		120	Wind Normal	743.51	643.90	371.75	24844.08	-43031.21	0.00
		150	Wind 90	743.51	371.75	643.90	43031.21	-24844.08	0.00
		180	Wind 60	743.51	0.00	743.51	49688.16	0.00	0.00
		210	Wind 90	743.51	-371.75	643.90	43031.21	24844.08	0.00
		240	Wind Normal	743.51	-643.90	371.75	24844.08	43031.21	0.00
		270	Wind 90	743.51	-743.51	0.00	0.00	49688.16	0.00
		300	Wind 60	743.51	-643.90	-371.75	-24844.08	43031.21	0.00
		330	Wind 90	743.51	-371.75	-643.90	-43031.21	24844.08	0.00

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	Client The Towers, LLC	Designed by AG

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L4	44.25-0.00	0	Wind Normal	690.61	0.00	-690.61	-15411.59	0.00	0.00
		30	Wind 90	690.61	345.31	-598.09	-13346.82	-7705.79	0.00
		60	Wind 60	690.61	598.09	-345.31	-7705.79	-13346.82	0.00
		90	Wind 90	690.61	690.61	0.00	0.00	-15411.59	0.00
		120	Wind Normal	690.61	598.09	345.31	7705.79	-13346.82	0.00
		150	Wind 90	690.61	345.31	598.09	13346.82	-7705.79	0.00
		180	Wind 60	690.61	0.00	690.61	15411.59	0.00	0.00
		210	Wind 90	690.61	-345.31	598.09	13346.82	7705.79	0.00
		240	Wind Normal	690.61	-598.09	345.31	7705.79	13346.82	0.00
		270	Wind 90	690.61	-690.61	0.00	0.00	15411.59	0.00
		300	Wind 60	690.61	-598.09	-345.31	-7705.79	13346.82	0.00
		330	Wind 90	690.61	-345.31	-598.09	-13346.82	7705.79	0.00

Mast Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-2533.39	-209153.99	0.00	0.00
30	1266.70	-2193.98	-181132.67	-104577.00	0.00
60	2193.98	-1266.70	-104577.00	-181132.67	0.00
90	2533.39	0.00	0.00	-209153.99	0.00
120	2193.98	1266.70	104577.00	-181132.67	0.00
150	1266.70	2193.98	181132.67	-104577.00	0.00
180	0.00	2533.39	209153.99	0.00	0.00
210	-1266.70	2193.98	181132.67	104577.00	0.00
240	-2193.98	1266.70	104577.00	181132.67	0.00
270	-2533.39	0.00	0.00	209153.99	0.00
300	-2193.98	-1266.70	-104577.00	181132.67	0.00
330	-1266.70	-2193.98	-181132.67	104577.00	0.00

Mast Vectors - Service

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L1	180.00-138.75	0	Wind Normal	872.39	0.00	-872.39	-137871.77	0.00	0.00
		30	Wind 90	872.39	436.19	-755.51	-119400.46	-68935.89	0.00
		60	Wind 60	872.39	755.51	-436.19	-68935.89	-119400.46	0.00
		90	Wind 90	872.39	872.39	0.00	0.00	-137871.77	0.00
		120	Wind Normal	872.39	755.51	436.19	68935.89	-119400.46	0.00
		150	Wind 90	872.39	436.19	755.51	119400.46	-68935.89	0.00
		180	Wind 60	872.39	0.00	872.39	137871.77	0.00	0.00
		210	Wind 90	872.39	-436.19	755.51	119400.46	68935.89	0.00
		240	Wind Normal	872.39	-755.51	436.19	68935.89	119400.46	0.00
		270	Wind 90	872.39	-872.39	0.00	0.00	137871.77	0.00
		300	Wind 60	872.39	-755.51	-436.19	-68935.89	119400.46	0.00
		330	Wind 90	872.39	-436.19	-755.51	-119400.46	68935.89	0.00
		L2	138.75-90.50	0	Wind Normal	1376.20	0.00	-1376.20	-156196.12
30	Wind 90			1376.20	688.10	-1191.83	-135269.81	-78098.06	0.00
60	Wind 60			1376.20	1191.83	-688.10	-78098.06	-135269.81	0.00
90	Wind 90			1376.20	1376.20	0.00	0.00	-156196.12	0.00

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	Client The Towers, LLC	Designed by AG

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
L3	90.50-44.25	120	Wind Normal	1376.20	1191.83	688.10	78098.06	-135269.81	0.00
		150	Wind 90	1376.20	688.10	1191.83	135269.81	-78098.06	0.00
		180	Wind 60	1376.20	0.00	1376.20	156196.12	0.00	0.00
		210	Wind 90	1376.20	-688.10	1191.83	135269.81	78098.06	0.00
		240	Wind Normal	1376.20	-1191.83	688.10	78098.06	135269.81	0.00
		270	Wind 90	1376.20	-1376.20	0.00	0.00	156196.12	0.00
		300	Wind 60	1376.20	-1191.83	-688.10	-78098.06	135269.81	0.00
		330	Wind 90	1376.20	-688.10	-1191.83	-135269.81	78098.06	0.00
		0	Wind Normal	1558.49	0.00	-1558.49	-104153.19	0.00	0.00
		30	Wind 90	1558.49	779.25	-1349.69	-90199.31	-52076.59	0.00
		60	Wind 60	1558.49	1349.69	-779.25	-52076.59	-90199.31	0.00
		90	Wind 90	1558.49	1558.49	0.00	0.00	-104153.19	0.00
		120	Wind Normal	1558.49	1349.69	779.25	52076.59	-90199.31	0.00
		150	Wind 90	1558.49	779.25	1349.69	90199.31	-52076.59	0.00
		180	Wind 60	1558.49	0.00	1558.49	104153.19	0.00	0.00
210	Wind 90	1558.49	-779.25	1349.69	90199.31	52076.59	0.00		
240	Wind Normal	1558.49	-1349.69	779.25	52076.59	90199.31	0.00		
270	Wind 90	1558.49	-1558.49	0.00	0.00	104153.19	0.00		
300	Wind 60	1558.49	-1349.69	-779.25	-52076.59	90199.31	0.00		
330	Wind 90	1558.49	-779.25	-1349.69	-90199.31	52076.59	0.00		
L4	44.25-0.00	0	Wind Normal	1462.45	0.00	-1462.45	-32635.73	0.00	0.00
		30	Wind 90	1462.45	731.22	-1266.52	-28263.37	-16317.87	0.00
		60	Wind 60	1462.45	1266.52	-731.22	-16317.87	-28263.37	0.00
		90	Wind 90	1462.45	1462.45	0.00	0.00	-32635.73	0.00
		120	Wind Normal	1462.45	1266.52	731.22	16317.87	-28263.37	0.00
		150	Wind 90	1462.45	731.22	1266.52	28263.37	-16317.87	0.00
		180	Wind 60	1462.45	0.00	1462.45	32635.73	0.00	0.00
		210	Wind 90	1462.45	-731.22	1266.52	28263.37	16317.87	0.00
		240	Wind Normal	1462.45	-1266.52	731.22	16317.87	28263.37	0.00
		270	Wind 90	1462.45	-1462.45	0.00	0.00	32635.73	0.00
		300	Wind 60	1462.45	-1266.52	-731.22	-16317.87	28263.37	0.00
		330	Wind 90	1462.45	-731.22	-1266.52	-28263.37	16317.87	0.00

Mast Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-5269.53	-430856.81	0.00	0.00
30	2634.76	-4563.55	-373132.95	-215428.41	0.00
60	4563.55	-2634.76	-215428.41	-373132.95	0.00
90	5269.53	0.00	0.00	-430856.81	0.00
120	4563.55	2634.76	215428.41	-373132.95	0.00
150	2634.76	4563.55	373132.95	-215428.41	0.00
180	0.00	5269.53	430856.81	0.00	0.00
210	-2634.76	4563.55	373132.95	215428.41	0.00
240	-4563.55	2634.76	215428.41	373132.95	0.00
270	-5269.53	0.00	0.00	430856.81	0.00
300	-4563.55	-2634.76	-215428.41	373132.95	0.00
330	-2634.76	-4563.55	-373132.95	215428.41	0.00

Discrete Appurtenance Pressures - No Ice

G_H = 1.100

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Project	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date	16:43:03 04/23/24
Client	The Towers, LLC	Designed by	AG

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
42,000 sq in CaAa	0.0000	4964.00	0.00	0.00	175.00	1.424	39	292.00	292.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	164.00	1.405	38	208.00	208.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	154.00	1.386	38	208.00	208.00
Dish Pipe Mount	120.0000	103.00	1.38	0.80	125.00	1.326	36	0.00	1.80
Dish Pipe Mount	0.0000	103.00	0.00	-1.59	125.00	1.326	36	0.00	1.80
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	125.00	1.326	36	0.01	0.01
Sum Weight:		12473.00							

Discrete Appurtenance Vectors - No Ice

42,000 sq in CaAa - Elevation 175 - None C

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	10247.87	0.00	0.00	-10247.87	-1793376.78	0.00	0.00
30	10247.87	0.00	5123.93	-8874.91	-1553109.85	-896688.39	0.00
60	10247.87	0.00	8874.91	-5123.93	-896688.39	-1553109.85	0.00
90	10247.87	0.00	10247.87	0.00	0.00	-1793376.78	0.00
120	10247.87	0.00	8874.91	5123.93	896688.39	-1553109.85	0.00
150	10247.87	0.00	5123.93	8874.91	1553109.85	-896688.39	0.00
180	10247.87	0.00	0.00	10247.87	1793376.78	0.00	0.00
210	10247.87	0.00	-5123.93	8874.91	1553109.85	896688.39	0.00
240	10247.87	0.00	-8874.91	5123.93	896688.39	1553109.85	0.00
270	10247.87	0.00	-10247.87	0.00	0.00	1793376.78	0.00
300	10247.87	0.00	-8874.91	-5123.93	-896688.39	1553109.85	0.00
330	10247.87	0.00	-5123.93	-8874.91	-1553109.85	896688.39	0.00

30,000 sq in CaAa - Elevation 164 - None B

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	7200.76	0.00	0.00	-7200.76	-1180924.69	0.00	0.00
30	7200.76	0.00	3600.38	-6236.04	-1022710.78	-590462.35	0.00
60	7200.76	0.00	6236.04	-3600.38	-590462.35	-1022710.78	0.00
90	7200.76	0.00	7200.76	0.00	0.00	-1180924.69	0.00
120	7200.76	0.00	6236.04	3600.38	590462.35	-1022710.78	0.00
150	7200.76	0.00	3600.38	6236.04	1022710.78	-590462.35	0.00
180	7200.76	0.00	0.00	7200.76	1180924.69	0.00	0.00
210	7200.76	0.00	-3600.38	6236.04	1022710.78	590462.35	0.00
240	7200.76	0.00	-6236.04	3600.38	590462.35	1022710.78	0.00
270	7200.76	0.00	-7200.76	0.00	0.00	1180924.69	0.00
300	7200.76	0.00	-6236.04	-3600.38	-590462.35	1022710.78	0.00
330	7200.76	0.00	-3600.38	-6236.04	-1022710.78	590462.35	0.00

30,000 sq in CaAa - Elevation 154 - None A

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	7106.01	0.00	0.00	-7106.01	-1094326.30	0.00	0.00
30	7106.01	0.00	3553.01	-6153.99	-947714.38	-547163.15	0.00
60	7106.01	0.00	6153.99	-3553.01	-547163.15	-947714.38	0.00
90	7106.01	0.00	7106.01	0.00	0.00	-1094326.30	0.00
120	7106.01	0.00	6153.99	3553.01	547163.15	-947714.38	0.00

30,000 sq in CaAa - Elevation 154 - None A

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
150	7106.01	0.00	3553.01	6153.99	947714.38	-547163.15	0.00
180	7106.01	0.00	0.00	7106.01	1094326.30	0.00	0.00
210	7106.01	0.00	-3553.01	6153.99	947714.38	547163.15	0.00
240	7106.01	0.00	-6153.99	3553.01	547163.15	947714.38	0.00
270	7106.01	0.00	-7106.01	0.00	0.00	1094326.30	0.00
300	7106.01	0.00	-6153.99	-3553.01	-547163.15	947714.38	0.00
330	7106.01	0.00	-3553.01	-6153.99	-947714.38	547163.15	0.00

Dish Pipe Mount - Elevation 125 - From Leg B

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.00	62.16	31.08	-53.83	-6646.39	-4026.87	99.07
30	0.00	71.77	35.89	-62.16	-7687.29	-4627.83	114.40
60	0.00	62.16	31.08	-53.83	-6646.39	-4026.87	99.07
90	0.00	35.89	17.94	-31.08	-3802.60	-2385.01	57.20
120	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
150	0.00	35.89	-17.94	31.08	3966.78	2100.64	-57.20
180	0.00	62.16	-31.08	53.83	6810.57	3742.51	-99.07
210	0.00	71.77	-35.89	62.16	7851.46	4343.47	-114.40
240	0.00	62.16	-31.08	53.83	6810.57	3742.51	-99.07
270	0.00	35.89	-17.94	31.08	3966.78	2100.64	-57.20
300	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
330	0.00	35.89	17.94	-31.08	-3802.60	-2385.01	57.20

Dish Pipe Mount - Elevation 125 - From Leg A

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
30	0.00	35.89	35.89	0.00	-164.18	-4485.65	-57.20
60	0.00	62.16	62.16	0.00	-164.18	-7769.38	-99.07
90	0.00	71.77	71.77	0.00	-164.18	-8971.30	-114.40
120	0.00	62.16	62.16	0.00	-164.18	-7769.38	-99.07
150	0.00	35.89	35.89	0.00	-164.18	-4485.65	-57.20
180	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
210	0.00	35.89	-35.89	0.00	-164.18	4485.65	57.20
240	0.00	62.16	-62.16	0.00	-164.18	7769.38	99.07
270	0.00	71.77	-71.77	0.00	-164.18	8971.30	114.40
300	0.00	62.16	-62.16	0.00	-164.18	7769.38	99.07
330	0.00	35.89	-35.89	0.00	-164.18	4485.65	57.20

Clamp Ring Assembly - Elevation 125 - None A

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.40	0.00	0.00	-0.40	-49.84	0.00	0.00
30	0.40	0.00	0.20	-0.35	-43.16	-24.92	0.00
60	0.40	0.00	0.35	-0.20	-24.92	-43.16	0.00
90	0.40	0.00	0.40	0.00	0.00	-49.84	0.00
120	0.40	0.00	0.35	0.20	24.92	-43.16	0.00
150	0.40	0.00	0.20	0.35	43.16	-24.92	0.00
180	0.40	0.00	0.00	0.40	49.84	0.00	0.00
210	0.40	0.00	-0.20	0.35	43.16	24.92	0.00

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	Client The Towers, LLC	Designed by AG

Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
240	0.40	0.00	-0.35	0.20	24.92	43.16	0.00
270	0.40	0.00	-0.40	0.00	0.00	49.84	0.00
300	0.40	0.00	-0.35	-0.20	-24.92	43.16	0.00
330	0.40	0.00	-0.20	-0.35	-43.16	24.92	0.00

Discrete Appurtenance Totals - No Ice

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	31.08	-24608.87	-4075488.18	-4026.87	99.07
30	12349.29	-21327.44	-3531429.64	-2043452.29	57.20
60	21358.52	-12331.35	-2041149.37	-3535374.42	0.00
90	24644.75	-31.08	-3966.78	-4080033.92	-57.20
120	21327.44	12277.52	2034256.72	-3531489.73	-99.07
150	12295.46	21296.37	3527380.77	-2036723.81	-114.40
180	-31.08	24608.87	4075324.00	3742.51	-99.07
210	-12349.29	21327.44	3531265.46	2043167.93	-57.20
240	-21358.52	12331.35	2040985.19	3535090.05	0.00
270	-24644.75	31.08	3802.60	4079749.56	57.20
300	-21327.44	-12277.52	-2034420.89	3531205.37	99.07
330	-12295.46	-21296.37	-3527544.95	2036439.45	114.40

Discrete Appurtenance Pressures - With Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K_z	q_z psf	C_{AAc} Front ft ²	C_{AAc} Side ft ²	t_z in
42,000 sq in CaAa	0.0000	8952.92	0.00	0.00	175.00	1.424	3	429.06	429.06	1.1816
30,000 sq in CaAa	0.0000	6358.07	0.00	0.00	164.00	1.405	3	306.61	306.61	1.1739
30,000 sq in CaAa	0.0000	6340.37	0.00	0.00	154.00	1.386	3	305.99	305.99	1.1665
Dish Pipe Mount	120.0000	139.56	1.38	0.80	125.00	1.326	3	0.00	2.49	1.1425
Dish Pipe Mount	0.0000	139.56	0.00	-1.59	125.00	1.326	3	0.00	2.49	1.1425
Clamp Ring Assembly	0.0000	480.62	0.00	0.00	125.00	1.326	3	0.01	0.01	1.1425
Sum		22411.08								
Weight:										

Discrete Appurtenance Vectors - With Ice

42,000 sq in CaAa - Elevation 175 - None C							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	1206.14	0.00	0.00	-1206.14	-211075.29	0.00	0.00
30	1206.14	0.00	603.07	-1044.55	-182796.56	-105537.64	0.00
60	1206.14	0.00	1044.55	-603.07	-105537.64	-182796.56	0.00
90	1206.14	0.00	1206.14	0.00	0.00	-211075.29	0.00
120	1206.14	0.00	1044.55	603.07	105537.64	-182796.56	0.00
150	1206.14	0.00	603.07	1044.55	182796.56	-105537.64	0.00

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	Client	The Towers, LLC	Designed by	AG

42,000 sq in CaAa - Elevation 175 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
180	1206.14	0.00	0.00	1206.14	211075.29	0.00	0.00
210	1206.14	0.00	-603.07	1044.55	182796.56	105537.64	0.00
240	1206.14	0.00	-1044.55	603.07	105537.64	182796.56	0.00
270	1206.14	0.00	-1206.14	0.00	0.00	211075.29	0.00
300	1206.14	0.00	-1044.55	-603.07	-105537.64	182796.56	0.00
330	1206.14	0.00	-603.07	-1044.55	-182796.56	105537.64	0.00

30,000 sq in CaAa - Elevation 164 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	850.22	0.00	0.00	-850.22	-139435.44	0.00	0.00
30	850.22	0.00	425.11	-736.31	-120754.63	-69717.72	0.00
60	850.22	0.00	736.31	-425.11	-69717.72	-120754.63	0.00
90	850.22	0.00	850.22	0.00	0.00	-139435.44	0.00
120	850.22	0.00	736.31	425.11	69717.72	-120754.63	0.00
150	850.22	0.00	425.11	736.31	120754.63	-69717.72	0.00
180	850.22	0.00	0.00	850.22	139435.44	0.00	0.00
210	850.22	0.00	-425.11	736.31	120754.63	69717.72	0.00
240	850.22	0.00	-736.31	425.11	69717.72	120754.63	0.00
270	850.22	0.00	-850.22	0.00	0.00	139435.44	0.00
300	850.22	0.00	-736.31	-425.11	-69717.72	120754.63	0.00
330	850.22	0.00	-425.11	-736.31	-120754.63	69717.72	0.00

30,000 sq in CaAa - Elevation 154 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	837.34	0.00	0.00	-837.34	-128949.88	0.00	0.00
30	837.34	0.00	418.67	-725.16	-111673.87	-64474.94	0.00
60	837.34	0.00	725.16	-418.67	-64474.94	-111673.87	0.00
90	837.34	0.00	837.34	0.00	0.00	-128949.88	0.00
120	837.34	0.00	725.16	418.67	64474.94	-111673.87	0.00
150	837.34	0.00	418.67	725.16	111673.87	-64474.94	0.00
180	837.34	0.00	0.00	837.34	128949.88	0.00	0.00
210	837.34	0.00	-418.67	725.16	111673.87	64474.94	0.00
240	837.34	0.00	-725.16	418.67	64474.94	111673.87	0.00
270	837.34	0.00	-837.34	0.00	0.00	128949.88	0.00
300	837.34	0.00	-725.16	-418.67	-64474.94	111673.87	0.00
330	837.34	0.00	-418.67	-725.16	-111673.87	64474.94	0.00

Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	6.87	3.44	-5.95	-632.97	-622.31	10.96
30	0.00	7.94	3.97	-6.87	-748.09	-688.77	12.65
60	0.00	6.87	3.44	-5.95	-632.97	-622.31	10.96
90	0.00	3.97	1.98	-3.44	-318.43	-440.71	6.33
120	0.00	0.00	0.00	0.00	111.23	-192.65	0.00
150	0.00	3.97	-1.98	3.44	540.88	55.42	-6.33
180	0.00	6.87	-3.44	5.95	855.42	237.01	-10.96
210	0.00	7.94	-3.97	6.87	970.54	303.48	-12.65
240	0.00	6.87	-3.44	5.95	855.42	237.01	-10.96

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Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
270	0.00	3.97	-1.98	3.44	540.88	55.42	-6.33
300	0.00	0.00	0.00	0.00	111.23	-192.65	0.00
330	0.00	3.97	1.98	-3.44	-318.43	-440.71	6.33

Dish Pipe Mount - Elevation 125 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	0.00	0.00	0.00	-222.45	0.00	0.00
30	0.00	3.97	3.97	0.00	-222.45	-496.13	-6.33
60	0.00	6.87	6.87	0.00	-222.45	-859.32	-10.96
90	0.00	7.94	7.94	0.00	-222.45	-992.25	-12.65
120	0.00	6.87	6.87	0.00	-222.45	-859.32	-10.96
150	0.00	3.97	3.97	0.00	-222.45	-496.13	-6.33
180	0.00	0.00	0.00	0.00	-222.45	0.00	0.00
210	0.00	3.97	-3.97	0.00	-222.45	496.13	6.33
240	0.00	6.87	-6.87	0.00	-222.45	859.32	10.96
270	0.00	7.94	-7.94	0.00	-222.45	992.25	12.65
300	0.00	6.87	-6.87	0.00	-222.45	859.32	10.96
330	0.00	3.97	-3.97	0.00	-222.45	496.13	6.33

Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.03	0.00	0.00	-0.03	-3.99	0.00	0.00
30	0.03	0.00	0.02	-0.03	-3.46	-2.00	0.00
60	0.03	0.00	0.03	-0.02	-2.00	-3.46	0.00
90	0.03	0.00	0.03	0.00	0.00	-3.99	0.00
120	0.03	0.00	0.03	0.02	2.00	-3.46	0.00
150	0.03	0.00	0.02	0.03	3.46	-2.00	0.00
180	0.03	0.00	0.00	0.03	3.99	0.00	0.00
210	0.03	0.00	-0.02	0.03	3.46	2.00	0.00
240	0.03	0.00	-0.03	0.02	2.00	3.46	0.00
270	0.03	0.00	-0.03	0.00	0.00	3.99	0.00
300	0.03	0.00	-0.03	-0.02	-2.00	3.46	0.00
330	0.03	0.00	-0.02	-0.03	-3.46	2.00	0.00

Discrete Appurtenance Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	3.44	-2899.68	-480320.02	-622.31	10.96
30	1454.80	-2512.92	-416199.07	-240917.20	6.33
60	2516.36	-1452.82	-240587.72	-416710.15	0.00
90	2903.65	-3.44	-540.88	-480897.57	-6.33
120	2512.92	1446.86	239621.07	-416280.49	-10.96
150	1448.85	2509.48	415546.96	-240173.01	-12.65
180	-3.44	2899.68	480097.57	237.01	-10.96
210	-1454.80	2512.92	415976.62	240531.91	-6.33
240	-2516.36	1452.82	240365.27	416324.85	0.00

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Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
270	-2903.65	3.44	318.43	480512.27	6.33
300	-2512.92	-1446.86	-239843.53	415895.19	10.96
330	-1448.85	-2509.48	-415769.41	239787.72	12.65

Discrete Appurtenance Pressures - Service *G_H = 1.100*

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²
42,000 sq in CaAa	0.0000	4964.00	0.00	0.00	175.00	1.424	11	292.00	292.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	164.00	1.405	11	208.00	208.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	154.00	1.386	11	208.00	208.00
Dish Pipe Mount	120.0000	103.00	1.38	0.80	125.00	1.326	10	0.00	1.80
Dish Pipe Mount	0.0000	103.00	0.00	-1.59	125.00	1.326	10	0.00	1.80
Clamp Ring Assembly	0.0000	231.00	0.00	0.00	125.00	1.326	10	0.01	0.01
Sum Weight:		12473.00							

Discrete Appurtenance Vectors - Service

42,000 sq in CaAa - Elevation 175 - None C

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	2937.78	0.00	0.00	-2937.78	-514111.87	0.00	0.00
30	2937.78	0.00	1468.89	-2544.19	-445233.94	-257055.94	0.00
60	2937.78	0.00	2544.19	-1468.89	-257055.94	-445233.94	0.00
90	2937.78	0.00	2937.78	0.00	0.00	-514111.87	0.00
120	2937.78	0.00	2544.19	1468.89	257055.94	-445233.94	0.00
150	2937.78	0.00	1468.89	2544.19	445233.94	-257055.94	0.00
180	2937.78	0.00	0.00	2937.78	514111.87	0.00	0.00
210	2937.78	0.00	-1468.89	2544.19	445233.94	257055.94	0.00
240	2937.78	0.00	-2544.19	1468.89	257055.94	445233.94	0.00
270	2937.78	0.00	-2937.78	0.00	0.00	514111.87	0.00
300	2937.78	0.00	-2544.19	-1468.89	-257055.94	445233.94	0.00
330	2937.78	0.00	-1468.89	-2544.19	-445233.94	257055.94	0.00

30,000 sq in CaAa - Elevation 164 - None B

Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	2064.26	0.00	0.00	-2064.26	-338538.68	0.00	0.00
30	2064.26	0.00	1032.13	-1787.70	-293183.10	-169269.34	0.00
60	2064.26	0.00	1787.70	-1032.13	-169269.34	-293183.10	0.00
90	2064.26	0.00	2064.26	0.00	0.00	-338538.68	0.00
120	2064.26	0.00	1787.70	1032.13	169269.34	-293183.10	0.00
150	2064.26	0.00	1032.13	1787.70	293183.10	-169269.34	0.00
180	2064.26	0.00	0.00	2064.26	338538.68	0.00	0.00
210	2064.26	0.00	-1032.13	1787.70	293183.10	169269.34	0.00
240	2064.26	0.00	-1787.70	1032.13	169269.34	293183.10	0.00
270	2064.26	0.00	-2064.26	0.00	0.00	338538.68	0.00
300	2064.26	0.00	-1787.70	-1032.13	-169269.34	293183.10	0.00

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30,000 sq in CaAa - Elevation 164 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
330	2064.26	0.00	-1032.13	-1787.70	-293183.10	169269.34	0.00

30,000 sq in CaAa - Elevation 154 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	2037.10	0.00	0.00	-2037.10	-313713.30	0.00	0.00
30	2037.10	0.00	1018.55	-1764.18	-271683.69	-156856.65	0.00
60	2037.10	0.00	1764.18	-1018.55	-156856.65	-271683.69	0.00
90	2037.10	0.00	2037.10	0.00	0.00	-313713.30	0.00
120	2037.10	0.00	1764.18	1018.55	156856.65	-271683.69	0.00
150	2037.10	0.00	1018.55	1764.18	271683.69	-156856.65	0.00
180	2037.10	0.00	0.00	2037.10	313713.30	0.00	0.00
210	2037.10	0.00	-1018.55	1764.18	271683.69	156856.65	0.00
240	2037.10	0.00	-1764.18	1018.55	156856.65	271683.69	0.00
270	2037.10	0.00	-2037.10	0.00	0.00	313713.30	0.00
300	2037.10	0.00	-1764.18	-1018.55	-156856.65	271683.69	0.00
330	2037.10	0.00	-1018.55	-1764.18	-271683.69	156856.65	0.00

Dish Pipe Mount - Elevation 125 - From Leg B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	17.82	8.91	-15.43	-1846.78	-1255.82	28.40
30	0.00	20.57	10.29	-17.82	-2145.18	-1428.10	32.80
60	0.00	17.82	8.91	-15.43	-1846.78	-1255.82	28.40
90	0.00	10.29	5.14	-8.91	-1031.54	-785.14	16.40
120	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
150	0.00	10.29	-5.14	8.91	1195.72	500.77	-16.40
180	0.00	17.82	-8.91	15.43	2010.96	971.45	-28.40
210	0.00	20.57	-10.29	17.82	2309.36	1143.73	-32.80
240	0.00	17.82	-8.91	15.43	2010.96	971.45	-28.40
270	0.00	10.29	-5.14	8.91	1195.72	500.77	-16.40
300	0.00	0.00	0.00	0.00	82.09	-142.18	0.00
330	0.00	10.29	5.14	-8.91	-1031.54	-785.14	16.40

Dish Pipe Mount - Elevation 125 - From Leg A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
30	0.00	10.29	10.29	0.00	-164.18	-1285.91	-16.40
60	0.00	17.82	17.82	0.00	-164.18	-2227.27	-28.40
90	0.00	20.57	20.57	0.00	-164.18	-2571.83	-32.80
120	0.00	17.82	17.82	0.00	-164.18	-2227.27	-28.40
150	0.00	10.29	10.29	0.00	-164.18	-1285.91	-16.40
180	0.00	0.00	0.00	0.00	-164.18	0.00	0.00
210	0.00	10.29	-10.29	0.00	-164.18	1285.91	16.40
240	0.00	17.82	-17.82	0.00	-164.18	2227.27	28.40
270	0.00	20.57	-20.57	0.00	-164.18	2571.83	32.80
300	0.00	17.82	-17.82	0.00	-164.18	2227.27	28.40
330	0.00	10.29	-10.29	0.00	-164.18	1285.91	16.40

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Clamp Ring Assembly - Elevation 125 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.11	0.00	0.00	-0.11	-14.29	0.00	0.00
30	0.11	0.00	0.06	-0.10	-12.37	-7.14	0.00
60	0.11	0.00	0.10	-0.06	-7.14	-12.37	0.00
90	0.11	0.00	0.11	0.00	0.00	-14.29	0.00
120	0.11	0.00	0.10	0.06	7.14	-12.37	0.00
150	0.11	0.00	0.06	0.10	12.37	-7.14	0.00
180	0.11	0.00	0.00	0.11	14.29	0.00	0.00
210	0.11	0.00	-0.06	0.10	12.37	7.14	0.00
240	0.11	0.00	-0.10	0.06	7.14	12.37	0.00
270	0.11	0.00	-0.11	0.00	0.00	14.29	0.00
300	0.11	0.00	-0.10	-0.06	-7.14	12.37	0.00
330	0.11	0.00	-0.06	-0.10	-12.37	7.14	0.00

Discrete Appurtenance Totals - Service

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	8.91	-7054.69	-1168389.09	-1255.82	28.40
30	3540.20	-6113.99	-1012422.45	-585903.08	16.40
60	6122.90	-3535.06	-585200.03	-1013596.18	0.00
90	7064.97	-8.91	-1195.72	-1169735.10	-16.40
120	6113.99	3519.63	583106.98	-1012482.54	-28.40
150	3524.77	6105.08	1011144.64	-583974.21	-32.80
180	-8.91	7054.69	1168224.92	971.45	-28.40
210	-3540.20	6113.99	1012258.27	585618.71	-16.40
240	-6122.90	3535.06	585035.85	1013311.81	0.00
270	-7064.97	8.91	1031.54	1169450.74	16.40
300	-6113.99	-3519.63	-583271.16	1012198.18	28.40
330	-3524.77	-6105.08	-1011308.82	583689.84	32.80

Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K_z	A_A ft ²	q_z psf
125.00	6' Solid w/Radome	0.0000	162.00	0.00	-1.59	1.326	28.27	36
125.00	6' Solid w/Radome	120.0000	162.00	1.38	0.80	1.326	28.27	36
	Sum		324.00					
	Weight:							

Dish Vectors - No Ice

6' Solid w/Radome - Elevation 125 - From Leg A											
Wind Azimuth °	C_A	C_S	C_M	F_A lb	F_S lb	F_M lb-ft	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	-0.001770	0.000000	0.000000	-779.35	0.00	0.00	0.00	-779.35	-97676.87	0.00	0.00

6' Solid w/Radome - Elevation 125 - From Leg A

Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
30	-0.001330	-0.000700	-0.000132	-585.61	-308.22	-348.73	308.22	-585.61	-73459.81	-38527.15	-840.01
60	-0.000420	-0.000890	-0.000404	-184.93	-391.88	-1067.31	391.88	-184.93	-23374.51	-48984.52	-1691.95
90	0.000340	-0.001040	-0.000390	149.71	-457.92	-1030.33	457.92	149.71	18454.97	-57240.34	-1760.24
120	0.001070	-0.001280	0.000002	471.13	-563.60	5.28	563.60	471.13	58633.28	-70449.65	-893.07
150	0.001950	-0.001050	0.000277	858.61	-462.33	731.80	462.33	858.61	107067.41	-57790.73	-5.13
180	0.002210	0.000000	0.000000	973.09	0.00	0.00	0.00	973.09	121377.50	0.00	0.00
210	0.001950	0.001050	-0.000277	858.61	462.33	-731.80	-462.33	858.61	107067.41	57790.73	5.13
240	0.001070	0.001280	-0.000002	471.13	563.60	-5.28	-563.60	471.13	58633.28	70449.65	893.07
270	0.000340	0.001040	0.000390	149.71	457.92	1030.33	-457.92	149.71	18454.97	57240.34	1760.24
300	-0.000420	0.000890	0.000404	-184.93	391.88	1067.31	-391.88	-184.93	-23374.51	48984.52	1691.95
330	-0.001330	0.000700	0.000132	-585.61	308.22	348.73	-308.22	-585.61	-73459.81	38527.15	840.01

6' Solid w/Radome - Elevation 125 - From Leg B

Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	471.13	563.60	-5.28	-126.21	-723.66	-90327.82	15553.09	893.07
30	0.000340	0.001040	0.000390	149.71	457.92	1030.33	99.31	-471.43	-58799.07	-12637.70	1760.24
60	-0.000420	0.000890	0.000404	-184.93	391.88	1067.31	356.09	-246.91	-30734.58	-44735.18	1691.95
90	-0.001330	0.000700	0.000132	-585.61	308.22	348.73	661.26	25.88	3364.41	-82881.63	840.01
120	-0.001770	0.000000	0.000000	-779.35	0.00	0.00	674.94	389.67	48838.44	-84590.65	0.00
150	-0.001330	-0.000700	-0.000132	-585.61	-308.22	-348.73	353.05	559.73	70095.39	-44354.48	-840.01
180	-0.000420	-0.000890	-0.000404	-184.93	-391.88	-1067.31	-35.78	431.84	54109.09	4249.34	-1691.95
210	0.000340	-0.001040	-0.000390	149.71	-457.92	-1030.33	-358.61	321.72	40344.10	44602.64	-1760.24
240	0.001070	-0.001280	0.000002	471.13	-563.60	5.28	-689.81	252.52	31694.54	86002.73	-893.07
270	0.001950	-0.001050	0.000277	858.61	-462.33	731.80	-974.74	-28.92	-3485.47	121618.46	-5.13
300	0.002210	0.000000	0.000000	973.09	0.00	0.00	-842.72	-486.54	-60688.75	105116.00	0.00
330	0.001950	0.001050	-0.000277	858.61	462.33	-731.80	-512.41	-829.69	-103581.94	63827.74	5.13

Dish Totals - No Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-126.21	-1503.00	-188004.70	15553.09	893.07
30	407.53	-1057.04	-132258.88	-51164.85	920.22
60	747.97	-431.84	-54109.09	-93719.70	0.00
90	1119.19	175.59	21819.38	-140121.97	-920.22
120	1238.53	860.81	107471.72	-155040.30	-893.07
150	815.37	1418.34	177162.81	-102145.21	-845.14
180	-35.78	1404.93	175486.59	4249.34	-1691.95
210	-820.94	1180.33	147411.52	102393.36	-1755.10
240	-1253.41	723.66	90327.82	156452.38	0.00
270	-1432.66	120.79	14969.50	178858.80	1755.10
300	-1234.59	-671.47	-84063.26	154100.52	1691.95
330	-820.63	-1415.30	-177041.75	102354.89	845.14

Dish Pressures - With Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
125.00	6' Solid w/Radome	0.0000	525.30	0.00	-1.59	1.326	30.09	3	1.1425
125.00	6' Solid w/Radome	120.0000	525.30	1.38	0.80	1.326	30.09	3	1.1425

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Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
		Sum	1050.60						
		Weight:							

Dish Vectors - With Ice

6' Solid w/Radome - Elevation 125 - From Leg A											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-0.001770	0.000000	0.000000	-66.43	0.00	0.00	0.00	-66.43	-9141.52	0.00	0.00
30	-0.001330	-0.000700	-0.000132	-49.92	-26.27	-29.73	26.27	-49.92	-7077.19	-3284.15	-71.60
60	-0.000420	-0.000890	-0.000404	-15.76	-33.40	-90.98	33.40	-15.76	-2807.80	-4175.56	-144.23
90	0.000340	-0.001040	-0.000390	12.76	-39.03	-87.83	39.03	12.76	757.85	-4879.31	-150.05
120	0.001070	-0.001280	0.000002	40.16	-48.04	0.45	48.04	40.16	4182.75	-6005.30	-76.13
150	0.001950	-0.001050	0.000277	73.19	-39.41	62.38	39.41	73.19	8311.40	-4926.23	-0.44
180	0.002210	0.000000	0.000000	82.95	0.00	0.00	0.00	82.95	9531.22	0.00	0.00
210	0.001950	0.001050	-0.000277	73.19	39.41	-62.38	-39.41	73.19	8311.40	4926.23	0.44
240	0.001070	0.001280	-0.000002	40.16	48.04	-0.45	-48.04	40.16	4182.75	6005.30	76.13
270	0.000340	0.001040	0.000390	12.76	39.03	87.83	-39.03	12.76	757.85	4879.31	150.05
300	-0.000420	0.000890	0.000404	-15.76	33.40	90.98	-33.40	-15.76	-2807.80	4175.56	144.23
330	-0.001330	0.000700	0.000132	-49.92	26.27	29.73	-26.27	-49.92	-7077.19	3284.15	71.60

6' Solid w/Radome - Elevation 125 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	40.16	48.04	-0.45	-10.76	-61.69	-7292.12	619.72	76.13
30	0.000340	0.001040	0.000390	12.76	39.03	87.83	8.47	-40.19	-4604.53	-1783.34	150.05
60	-0.000420	0.000890	0.000404	-15.76	33.40	90.98	30.35	-21.05	-2212.24	-4519.41	144.23
90	-0.001330	0.000700	0.000132	-49.92	26.27	29.73	56.37	2.21	694.44	-7771.10	71.60
120	-0.001770	0.000000	0.000000	-66.43	0.00	0.00	57.53	33.22	4570.76	-7916.79	0.00
150	-0.001330	-0.000700	-0.000132	-49.92	-26.27	-29.73	30.09	47.71	6382.75	-4486.95	-71.60
180	-0.000420	-0.000890	-0.000404	-15.76	-33.40	-90.98	-3.05	36.81	5020.04	-343.84	-144.23
210	0.000340	-0.001040	-0.000390	12.76	-39.03	-87.83	-30.57	27.42	3846.68	3095.97	-150.05
240	0.001070	-0.001280	0.000002	40.16	-48.04	0.45	-58.80	21.53	3109.37	6625.02	-76.13
270	0.001950	-0.001050	0.000277	73.19	-39.41	62.38	-83.09	-2.46	110.54	9660.99	-0.44
300	0.002210	0.000000	0.000000	82.95	0.00	0.00	-71.84	-41.47	-4765.61	8254.28	0.00
330	0.001950	0.001050	-0.000277	73.19	39.41	-62.38	-43.68	-70.72	-8421.93	4734.77	0.44

Dish Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-10.76	-128.12	-16433.64	619.72	76.13
30	34.74	-90.10	-11681.73	-5067.49	78.44
60	63.76	-36.81	-5020.04	-8694.97	0.00
90	95.40	14.97	1452.29	-12650.41	-78.44
120	105.58	73.38	8753.51	-13922.09	-76.13
150	69.50	120.90	14694.15	-9413.18	-72.04
180	-3.05	119.76	14551.27	-343.84	-144.23
210	-69.98	100.61	12158.08	8022.20	-149.61
240	-106.84	61.69	7292.12	12630.32	0.00
270	-122.12	10.30	868.39	14540.30	149.61
300	-105.24	-57.24	-7573.41	12429.84	144.23
330	-69.95	-120.64	-15499.13	8018.92	72.04

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Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
125.00	6' Solid w/Radome	0.0000	162.00	0.00	-1.59	1.326	28.27	10
125.00	6' Solid w/Radome	120.0000	162.00	1.38	0.80	1.326	28.27	10
	Sum		324.00					
	Weight:							

Dish Vectors - Service

6' Solid w/Radome - Elevation 125 - From Leg A

Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-0.001770	0.000000	0.000000	-223.42	0.00	0.00	0.00	-223.42	-28185.47	0.00	0.00
30	-0.001330	-0.000700	-0.000132	-167.88	-88.36	-99.97	88.36	-167.88	-21243.11	-11044.68	-240.81
60	-0.000420	-0.000890	-0.000404	-53.01	-112.34	-305.97	112.34	-53.01	-6885.03	-14042.52	-485.03
90	0.000340	-0.001040	-0.000390	42.92	-131.27	-295.37	131.27	42.92	5106.34	-16409.23	-504.61
120	0.001070	-0.001280	0.000002	135.06	-161.57	1.51	161.57	135.06	16624.35	-20195.98	-256.02
150	0.001950	-0.001050	0.000277	246.14	-132.54	209.79	132.54	246.14	30509.09	-16567.01	-1.47
180	0.002210	0.000000	0.000000	278.96	0.00	0.00	0.00	278.96	34611.40	0.00	0.00
210	0.001950	0.001050	-0.000277	246.14	132.54	-209.79	-132.54	246.14	30509.09	16567.01	1.47
240	0.001070	0.001280	-0.000002	135.06	161.57	-1.51	-161.57	135.06	16624.35	20195.98	256.02
270	0.000340	0.001040	0.000390	42.92	131.27	295.37	-131.27	42.92	5106.34	16409.23	504.61
300	-0.000420	0.000890	0.000404	-53.01	112.34	305.97	-112.34	-53.01	-6885.03	14042.52	485.03
330	-0.001330	0.000700	0.000132	-167.88	88.36	99.97	-88.36	-167.88	-21243.11	11044.68	240.81

6' Solid w/Radome - Elevation 125 - From Leg B

Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	135.06	161.57	-1.51	-36.18	-207.45	-25802.41	4299.12	256.02
30	0.000340	0.001040	0.000390	42.92	131.27	295.37	28.47	-135.14	-16763.98	-3782.40	504.61
60	-0.000420	0.000890	0.000404	-53.01	112.34	305.97	102.08	-70.78	-8718.66	-12983.87	485.03
90	-0.001330	0.000700	0.000132	-167.88	88.36	99.97	189.57	7.42	1056.58	-23919.41	240.81
120	-0.001770	0.000000	0.000000	-223.42	0.00	0.00	193.49	111.71	14092.74	-24409.34	0.00
150	-0.001330	-0.000700	-0.000132	-167.88	-88.36	-99.97	101.21	160.46	20186.52	-12874.73	-240.81
180	-0.000420	-0.000890	-0.000404	-53.01	-112.34	-305.97	-10.26	123.80	15603.69	1058.65	-485.03
210	0.000340	-0.001040	-0.000390	42.92	-131.27	-295.37	-102.80	92.23	11657.64	12626.83	-504.61
240	0.001070	-0.001280	0.000002	135.06	-161.57	1.51	-197.75	72.39	9178.05	24495.10	-256.02
270	0.001950	-0.001050	0.000277	246.14	-132.54	209.79	-279.43	-8.29	-907.09	34705.15	-1.47
300	0.002210	0.000000	0.000000	278.96	0.00	0.00	-241.58	-139.48	-17305.70	29974.35	0.00
330	0.001950	0.001050	-0.000277	246.14	132.54	-209.79	-146.89	-237.85	-29602.00	18138.14	1.47

Dish Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-36.18	-430.87	-53987.88	4299.12	256.02
30	116.83	-303.02	-38007.09	-14827.08	263.80
60	214.42	-123.80	-15603.69	-27026.38	0.00
90	320.84	50.34	6162.92	-40328.64	-263.80

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Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
120	355.05	246.77	30717.09	-44605.31	-256.02
150	233.74	406.60	50695.61	-29441.75	-242.28
180	-10.26	402.75	50215.09	1058.65	-485.03
210	-235.34	338.37	42166.74	29193.85	-503.14
240	-359.32	207.45	25802.41	44691.08	0.00
270	-410.70	34.63	4199.25	51114.39	503.14
300	-353.92	-192.49	-24190.73	44016.87	485.03
330	-235.25	-405.73	-50845.11	29182.82	242.28

Force Totals

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M _x lb-ft	Sum of Overturning Moments, M _z lb-ft	Sum of Torques lb-ft
Leg Weight	42005.94					
Bracing Weight	0.00					
Total Member Self-Weight	42005.94			-211.20	-365.81	
Total Weight	60642.56			-211.20	-365.81	
Wind 0 deg - No Ice		-95.14	-44493.58	-5766450.98	11526.22	992.14
Wind 30 deg - No Ice		21947.67	-38303.51	-4965288.41	-2846096.19	977.42
Wind 60 deg - No Ice		38025.51	-21954.04	-2846737.52	-4930694.02	0.00
Wind 90 deg - No Ice		44145.65	144.51	17852.60	-5723114.00	-977.42
Wind 120 deg - No Ice		38485.00	22329.18	2893207.48	-4988129.93	-992.14
Wind 150 deg - No Ice		22301.69	38633.73	5006143.47	-2890348.07	-959.54
Wind 180 deg - No Ice		-66.86	44395.50	5753768.69	7991.85	-1791.02
Wind 210 deg - No Ice		-22361.08	38426.79	4980276.87	2897040.34	-1812.30
Wind 240 deg - No Ice		-38530.95	22245.86	2882792.07	4993142.33	0.00
Wind 270 deg - No Ice		-44459.12	151.87	18772.10	5761566.46	1812.30
Wind 300 deg - No Ice		-38481.06	-22139.85	-2869963.21	4986905.78	1791.02
Wind 330 deg - No Ice		-22306.94	-38630.69	-5006186.60	2890273.39	959.54
Member Ice	11639.42					
Total Weight Ice	82946.66			-529.88	-917.78	
Wind 0 deg - Ice		-7.32	-5561.20	-705907.65	-2.59	87.08
Wind 30 deg - Ice		2756.24	-4797.01	-609013.46	-350561.69	84.77
Wind 60 deg - Ice		4774.10	-2756.33	-350184.76	-606537.79	0.00
Wind 90 deg - Ice		5532.45	11.53	911.41	-702701.97	-84.77
Wind 120 deg - Ice		4812.48	2786.94	352951.58	-611335.25	-87.08
Wind 150 deg - Ice		2785.05	4824.37	611373.78	-354163.19	-84.70
Wind 180 deg - Ice		-6.49	5552.84	703802.83	-106.83	-155.18
Wind 210 deg - Ice		-2791.48	4807.51	609267.36	353131.10	-155.94
Wind 240 deg - Ice		-4817.18	2781.20	352234.38	610087.85	0.00
Wind 270 deg - Ice		-5559.17	13.73	1186.82	704206.57	155.94
Wind 300 deg - Ice		-4812.14	-2770.80	-351993.93	609457.71	155.18
Wind 330 deg - Ice		-2785.50	-4824.11	-612401.21	352383.63	84.70
Total Weight	60642.56			-211.20	-365.81	
Wind 0 deg - Service		-27.27	-12755.09	-1653233.79	3043.31	284.42
Wind 30 deg - Service		6291.80	-10980.56	-1423562.48	-816158.56	280.20
Wind 60 deg - Service		10900.87	-6293.62	-816232.12	-1413755.51	0.00
Wind 90 deg - Service		12655.34	41.43	4967.20	-1640920.55	-280.20
Wind 120 deg - Service		11032.59	6401.16	829252.48	-1430220.80	-284.42
Wind 150 deg - Service		6393.28	11075.23	1434973.20	-828844.36	-275.07
Wind 180 deg - Service		-19.17	12726.97	1649296.82	2030.10	-513.44
Wind 210 deg - Service		-6410.31	11015.91	1427557.95	830240.96	-519.54
Wind 240 deg - Service		-11045.77	6377.28	826266.66	1431135.84	0.00
Wind 270 deg - Service		-12745.21	43.54	5230.79	1651421.94	519.54
Wind 300 deg - Service		-11031.46	-6346.89	-822890.29	1429347.99	513.44

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Load Case	Vertical Forces <i>lb</i>	Sum of Forces <i>X</i> <i>lb</i>	Sum of Forces <i>Z</i> <i>lb</i>	Sum of Overturning Moments, <i>M_x</i> <i>lb-ft</i>	Sum of Overturning Moments, <i>M_z</i> <i>lb-ft</i>	Sum of Torques <i>lb-ft</i>
Wind 330 deg - Service		-6394.79	-11074.36	-1435286.87	828301.06	275.07

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service

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Comb. No.	Description
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
L1	180 - 138.75	Pole	Max Tension	2	0.03	0.18	-0.00
			Max. Compression	26	-30208.16	0.00	0.00
			Max. Mx	20	-16529.79	625892.24	-27.61
			Max. My	2	-16527.98	16.91	625913.70
			Max. Vy	20	-28773.71	625892.24	-27.61
			Max. Vx	2	-28774.75	16.91	625913.70
			Max. Torque	14			-0.41
L2	138.75 - 90.5	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-45669.49	-990.94	572.12
			Max. Mx	20	-28720.52	2099780.58	-4243.50
			Max. My	2	-28717.16	2364.54	2101507.71
			Max. Vy	20	-34713.88	2099780.58	-4243.50
			Max. Vx	2	-34749.59	2364.54	2101507.71
			Max. Torque	20			-1820.05
L3	90.5 - 44.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65058.18	-990.94	572.12
			Max. Mx	20	-45258.82	3750015.13	-11169.55
			Max. My	2	-45257.17	6700.01	3753328.01
			Max. Vy	20	-39399.12	3750015.13	-11169.55
			Max. Vx	2	-39434.52	6700.01	3753328.01
			Max. Torque	20			-1814.93
L4	44.25 - 0	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-96545.22	-990.94	572.12
			Max. Mx	20	-72748.85	5970838.09	-19294.35
			Max. My	2	-72748.81	11787.62	5975999.29
			Max. Vy	20	-44495.49	5970838.09	-19294.35
			Max. Vx	2	-44529.99	11787.62	5975999.29
			Max. Torque	20			-1811.54

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	26	96545.22	0.00	0.00
	Max. H _x	20	72771.07	44459.14	-151.87
	Max. H _z	2	72771.07	95.14	44493.60
	Max. M _x	2	5975999.29	95.14	44493.60
	Max. M _z	8	5931489.89	-44145.67	-144.51
	Max. Torsion	16	1810.53	22361.08	-38426.79
	Min. Vert	7	54578.30	-38025.51	21954.04
	Min. H _x	8	72771.07	-44145.67	-144.51
	Min. H _z	14	72771.07	66.86	-44395.52
	Min. M _x	14	-5962860.33	66.86	-44395.52
	Min. M _z	20	-5970838.09	44459.14	-151.87
	Min. Torsion	20	-1810.66	44459.14	-151.87

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Tower Mast Reaction Summary

Load Combination	Vertical	Shear _x	Shear _z	Overtuning Moment, M _x	Overtuning Moment, M _z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
Dead Only	60642.56	0.00	0.00	-211.20	-365.81	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	72771.07	-95.14	-44493.60	-5975999.29	11787.77	1008.94
0.9 Dead+1.0 Wind 0 deg - No Ice	54578.30	-95.14	-44493.59	-5919827.12	11814.11	1002.45
1.2 Dead+1.0 Wind 30 deg - No Ice	72771.07	21947.67	-38303.51	-5146007.96	-2949869.87	983.47
0.9 Dead+1.0 Wind 30 deg - No Ice	54578.30	21947.67	-38303.51	-5097563.22	-2921985.94	979.78
1.2 Dead+1.0 Wind 60 deg - No Ice	72771.07	38025.51	-21954.04	-2950527.58	-5110463.54	-0.08
0.9 Dead+1.0 Wind 60 deg - No Ice	54578.30	38025.51	-21954.04	-2922686.25	-5062241.05	-0.03
1.2 Dead+1.0 Wind 90 deg - No Ice	72771.07	44145.67	144.51	18341.74	-5931489.89	-983.41
0.9 Dead+1.0 Wind 90 deg - No Ice	54578.30	44145.65	144.51	18267.56	-5875606.86	-979.75
1.2 Dead+1.0 Wind 120 deg - No Ice	72771.07	38485.00	22329.18	2998217.62	-5169489.47	-1008.84
0.9 Dead+1.0 Wind 120 deg - No Ice	54578.30	38485.00	22329.18	2970147.60	-5120818.25	-1002.40
1.2 Dead+1.0 Wind 150 deg - No Ice	72771.07	22301.69	38633.73	5187882.35	-2995389.25	-980.81
0.9 Dead+1.0 Wind 150 deg - No Ice	54578.30	22301.69	38633.73	5139255.82	-2967157.14	-973.23
1.2 Dead+1.0 Wind 180 deg - No Ice	72771.07	-66.86	44395.52	5962860.33	8153.39	-1800.64
0.9 Dead+1.0 Wind 180 deg - No Ice	54578.30	-66.86	44395.51	5906924.75	8206.15	-1794.35
1.2 Dead+1.0 Wind 210 deg - No Ice	72771.07	-22361.08	38426.79	5161266.28	3002138.17	-1810.53
0.9 Dead+1.0 Wind 210 deg - No Ice	54578.30	-22361.08	38426.79	5112845.33	2974086.26	-1807.15
1.2 Dead+1.0 Wind 240 deg - No Ice	72771.07	-38530.95	22245.86	2987486.52	5174478.30	-0.08
0.9 Dead+1.0 Wind 240 deg - No Ice	54578.30	-38530.95	22245.86	2959500.07	5126004.44	-0.03
1.2 Dead+1.0 Wind 270 deg - No Ice	72771.07	-44459.14	151.87	19294.62	5970838.09	1810.66
0.9 Dead+1.0 Wind 270 deg - No Ice	54578.30	-44459.13	151.87	19211.54	5914891.70	1807.21
1.2 Dead+1.0 Wind 300 deg - No Ice	72771.07	-38481.06	-22139.85	-2974378.47	5168081.42	1800.67
0.9 Dead+1.0 Wind 300 deg - No Ice	54578.30	-38481.06	-22139.85	-2946358.32	5119654.62	1794.35
1.2 Dead+1.0 Wind 330 deg - No Ice	72771.07	-22306.94	-38630.69	-5188024.29	2995143.40	980.65
0.9 Dead+1.0 Wind 330 deg - No Ice	54578.30	-22306.94	-38630.69	-5139261.35	2967147.56	973.17
1.2 Dead+1.0 Ice+1.0 Temp	96545.22	0.00	0.00	-572.12	-990.94	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	96545.21	-7.32	-5561.39	-746625.33	-133.82	94.40
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	96545.22	2756.25	-4797.02	-644191.91	-370910.07	88.97
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	96545.22	4774.11	-2756.33	-370460.15	-641655.80	-0.00

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Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	lb	lb	lb	lb-ft	lb-ft	lb-ft
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	96545.21	5532.64	11.53	878.42	-743325.17	-88.97
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	96545.22	4812.49	2786.95	373204.99	-646677.68	-94.40
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	96545.22	2785.06	4824.38	646511.11	-374680.15	-93.15
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	96545.21	-6.49	5553.03	744270.59	-242.84	-162.47
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	96545.22	-2791.49	4807.53	644306.01	373337.59	-160.12
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	96545.22	-4817.19	2781.21	372454.17	645109.54	-0.00
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	96545.21	-5559.36	13.73	1166.82	744637.77	160.12
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	96545.22	-4812.15	-2770.81	-372353.83	644450.00	162.47
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	96545.22	-2785.51	-4824.12	-647738.08	372554.97	93.15
Dead+Wind 0 deg - Service	60642.56	-27.27	-12755.09	-1704654.50	3110.56	290.34
Dead+Wind 30 deg - Service	60642.56	6291.80	-10980.57	-1467889.29	-841611.54	283.50
Dead+Wind 60 deg - Service	60642.56	10900.87	-6293.62	-841683.63	-1457838.78	-0.01
Dead+Wind 90 deg - Service	60642.56	12655.35	41.43	5087.69	-1692035.16	-283.49
Dead+Wind 120 deg - Service	60642.56	11032.60	6401.16	855021.11	-1474718.83	-290.34
Dead+Wind 150 deg - Service	60642.56	6393.28	11075.23	1479575.30	-854618.01	-282.01
Dead+Wind 180 deg - Service	60642.56	-19.17	12726.97	1700606.29	2072.03	-519.19
Dead+Wind 210 deg - Service	60642.56	-6410.31	11015.91	1471972.09	856030.82	-522.63
Dead+Wind 240 deg - Service	60642.56	-11045.77	6377.28	851959.24	1475636.66	-0.01
Dead+Wind 270 deg - Service	60642.56	-12745.21	43.54	5358.38	1702780.61	522.64
Dead+Wind 300 deg - Service	60642.56	-11031.47	-6346.89	-848508.74	1473804.28	519.19
Dead+Wind 330 deg - Service	60642.56	-6394.79	-11074.36	-1479908.54	854040.82	282.00

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-60642.56	0.00	0.00	60642.56	0.00	0.000%
2	-95.14	-72771.07	-44493.58	95.14	72771.07	44493.60	0.000%
3	-95.14	-54578.30	-44493.58	95.14	54578.30	44493.59	0.000%
4	21947.67	-72771.07	-38303.51	-21947.67	72771.07	38303.51	0.000%
5	21947.67	-54578.30	-38303.51	-21947.67	54578.30	38303.51	0.000%
6	38025.51	-72771.07	-21954.04	-38025.51	72771.07	21954.04	0.000%
7	38025.51	-54578.30	-21954.04	-38025.51	54578.30	21954.04	0.000%
8	44145.65	-72771.07	144.51	-44145.67	72771.07	-144.51	0.000%
9	44145.65	-54578.30	144.51	-44145.65	54578.30	-144.51	0.000%
10	38485.00	-72771.07	22329.18	-38485.00	72771.07	-22329.18	0.000%
11	38485.00	-54578.30	22329.18	-38485.00	54578.30	-22329.18	0.000%
12	22301.69	-72771.07	38633.73	-22301.69	72771.07	-38633.73	0.000%
13	22301.69	-54578.30	38633.73	-22301.69	54578.30	-38633.73	0.000%
14	-66.86	-72771.07	44395.50	66.86	72771.07	-44395.52	0.000%
15	-66.86	-54578.30	44395.50	66.86	54578.30	-44395.51	0.000%
16	-22361.08	-72771.07	38426.79	22361.08	72771.07	-38426.79	0.000%
17	-22361.08	-54578.30	38426.79	22361.08	54578.30	-38426.79	0.000%
18	-38530.95	-72771.07	22245.86	38530.95	72771.07	-22245.86	0.000%
19	-38530.95	-54578.30	22245.86	38530.95	54578.30	-22245.86	0.000%
20	-44459.12	-72771.07	151.87	44459.14	72771.07	-151.87	0.000%
21	-44459.12	-54578.30	151.87	44459.13	54578.30	-151.87	0.000%
22	-38481.06	-72771.07	-22139.85	38481.06	72771.07	22139.85	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
23	-38481.06	-54578.30	-22139.85	38481.06	54578.30	22139.85	0.000%
24	-22306.94	-72771.07	-38630.69	22306.94	72771.07	38630.69	0.000%
25	-22306.94	-54578.30	-38630.69	22306.94	54578.30	38630.69	0.000%
26	0.00	-96545.22	0.00	0.00	96545.22	0.00	0.000%
27	-7.32	-96545.22	-5561.20	7.32	96545.21	5561.39	0.000%
28	2756.24	-96545.22	-4797.01	-2756.25	96545.22	4797.02	0.000%
29	4774.10	-96545.22	-2756.33	-4774.11	96545.22	2756.33	0.000%
30	5532.45	-96545.22	11.53	-5532.64	96545.21	-11.53	0.000%
31	4812.48	-96545.22	2786.94	-4812.49	96545.22	-2786.95	0.000%
32	2785.05	-96545.22	4824.37	-2785.06	96545.22	-4824.38	0.000%
33	-6.49	-96545.22	5552.84	6.49	96545.21	-5553.03	0.000%
34	-2791.48	-96545.22	4807.51	2791.49	96545.22	-4807.53	0.000%
35	-4817.18	-96545.22	2781.20	4817.19	96545.22	-2781.21	0.000%
36	-5559.17	-96545.22	13.73	5559.36	96545.21	-13.73	0.000%
37	-4812.14	-96545.22	-2770.80	4812.15	96545.22	2770.81	0.000%
38	-2785.50	-96545.22	-4824.11	2785.51	96545.22	4824.12	0.000%
39	-27.27	-60642.56	-12755.09	27.27	60642.56	12755.09	0.000%
40	6291.80	-60642.56	-10980.56	-6291.80	60642.56	10980.57	0.000%
41	10900.87	-60642.56	-6293.62	-10900.87	60642.56	6293.62	0.000%
42	12655.34	-60642.56	41.43	-12655.35	60642.56	-41.43	0.000%
43	11032.59	-60642.56	6401.16	-11032.60	60642.56	-6401.16	0.000%
44	6393.28	-60642.56	11075.23	-6393.28	60642.56	-11075.23	0.000%
45	-19.17	-60642.56	12726.97	19.17	60642.56	-12726.97	0.000%
46	-6410.31	-60642.56	11015.91	6410.31	60642.56	-11015.91	0.000%
47	-11045.77	-60642.56	6377.28	11045.77	60642.56	-6377.28	0.000%
48	-12745.21	-60642.56	43.54	12745.21	60642.56	-43.54	0.000%
49	-11031.46	-60642.56	-6346.89	11031.47	60642.56	6346.89	0.000%
50	-6394.79	-60642.56	-11074.36	6394.79	60642.56	11074.36	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00027478
3	Yes	4	0.00000001	0.00013071
4	Yes	5	0.00000001	0.00068211
5	Yes	5	0.00000001	0.00029438
6	Yes	5	0.00000001	0.00067423
7	Yes	5	0.00000001	0.00029108
8	Yes	4	0.00000001	0.00025417
9	Yes	4	0.00000001	0.00011412
10	Yes	5	0.00000001	0.00068097
11	Yes	5	0.00000001	0.00029268
12	Yes	5	0.00000001	0.00069227
13	Yes	5	0.00000001	0.00029790
14	Yes	4	0.00000001	0.00040830
15	Yes	4	0.00000001	0.00023210
16	Yes	5	0.00000001	0.00067667
17	Yes	5	0.00000001	0.00029069
18	Yes	5	0.00000001	0.00068459
19	Yes	5	0.00000001	0.00029458
20	Yes	4	0.00000001	0.00036229
21	Yes	4	0.00000001	0.00020023
22	Yes	5	0.00000001	0.00069177
23	Yes	5	0.00000001	0.00029835

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24	Yes	5	0.0000001	0.00068197
25	Yes	5	0.0000001	0.00029297
26	Yes	4	0.0000001	0.0000001
27	Yes	4	0.0000001	0.00099250
28	Yes	5	0.0000001	0.00008059
29	Yes	5	0.0000001	0.00008038
30	Yes	4	0.0000001	0.00098991
31	Yes	5	0.0000001	0.00008077
32	Yes	5	0.0000001	0.00008081
33	Yes	4	0.0000001	0.00098838
34	Yes	5	0.0000001	0.00008038
35	Yes	5	0.0000001	0.00008040
36	Yes	4	0.0000001	0.00098807
37	Yes	5	0.0000001	0.00008047
38	Yes	5	0.0000001	0.00008073
39	Yes	4	0.0000001	0.00005233
40	Yes	4	0.0000001	0.00048030
41	Yes	4	0.0000001	0.00046759
42	Yes	4	0.0000001	0.00005154
43	Yes	4	0.0000001	0.00047044
44	Yes	4	0.0000001	0.00049023
45	Yes	4	0.0000001	0.00006028
46	Yes	4	0.0000001	0.00046292
47	Yes	4	0.0000001	0.00047764
48	Yes	4	0.0000001	0.00005946
49	Yes	4	0.0000001	0.00049343
50	Yes	4	0.0000001	0.00047163

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	180 - 138.75	31.508	50	1.6852	0.0011
L2	143.5 - 90.5	19.179	50	1.4448	0.0011
L3	97.25 - 44.25	7.948	50	0.8379	0.0006
L4	52.75 - 0	2.182	50	0.3826	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
175.00	42,000 sq in CaAa	50	29.737	1.6606	0.0011	32011
164.00	30,000 sq in CaAa	50	25.888	1.6018	0.0012	10003
154.00	30,000 sq in CaAa	50	22.512	1.5357	0.0012	6155
125.00	6' Solid w/Radome	50	14.010	1.2220	0.0009	4530

Maximum Tower Deflections - Design Wind

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	180 - 138.75	110.433	24	5.9171	0.0038
L2	143.5 - 90.5	67.257	24	5.0728	0.0038
L3	97.25 - 44.25	27.883	24	2.9415	0.0019
L4	52.75 - 0	7.653	24	1.3426	0.0007

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
175.00	42,000 sq in CaAa	24	104.233	5.8307	0.0038	9285
164.00	30,000 sq in CaAa	24	90.755	5.6242	0.0039	2899
154.00	30,000 sq in CaAa	24	78.933	5.3922	0.0039	1782
125.00	6' Solid w/Radome	24	49.141	4.2904	0.0032	1304

Base Plate Design Data

Plate Thickness in	Number of Anchor Bolts	Anchor Bolt Size in	Actual Allowable Ratio Bolt Tension lb	Actual Allowable Ratio Bolt Compression lb	Actual Allowable Ratio Plate Stress ksi	Actual Allowable Ratio Stiffener Stress ksi	Controlling Condition	Ratio
2.5000	18	2.2500	190181.38	198264.57	34.696		Bolt T	0.78
			243576.14	404336.40	45.000			✓
			0.78	0.49	0.77			

Compression Checks

Pole Design Data

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio P _u /φP _n
L1	180 - 178.079	TP34.6781x22.4475x0.25	41.25	0.00	0.0	18.0657	-193.13	1056840.00	0.000
	18.5177					-389.85	1083280.00	0.000	
	18.9696					-5460.36	1109720.00	0.005	
	19.4216					-5666.73	1136160.00	0.005	
	19.8736					-5876.66	1162600.00	0.005	
	20.3255					-6091.66	1189040.00	0.005	
	20.7775					-6311.62	1215480.00	0.005	
	178.079 - 176.158								
176.158 - 174.237									
174.237 - 172.316									
172.316 - 170.395									
170.395 - 168.474									
168.474 - 166.553									

tnxTower

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 South Bend, IN. 46619
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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	166.553								
	166.553 - 164.632					21.2295	-6536.43	1241930.00	0.005
	164.632 - 162.711					21.6815	-10257.30	1268370.00	0.008
	162.711 - 160.789					22.1334	-10503.00	1294810.00	0.008
	160.789 - 158.868					22.5854	-10749.60	1321250.00	0.008
	158.868 - 156.947					23.0374	-11002.20	1347690.00	0.008
	156.947 - 155.026					23.4893	-11260.80	1374130.00	0.008
	155.026 - 153.105					23.9413	-15058.60	1400570.00	0.011
	153.105 - 151.184					24.3933	-15345.70	1427010.00	0.011
	151.184 - 149.263					24.8453	-15632.20	1453450.00	0.011
	149.263 - 147.342					25.2972	-15925.60	1479890.00	0.011
	147.342 - 145.421					25.7492	-16225.60	1506330.00	0.011
	145.421 - 143.5					26.2012	-16531.80	1532770.00	0.011
	143.5 - 138.75					27.3187	-8074.74	1598150.00	0.005
L2	143.5 - 138.75	TP48.4843x32.7698x0.3125	53.00	0.00	0.0	33.5905	-9868.31	1965040.00	0.005
	138.75 - 136.444					34.2685	-18428.80	2004710.00	0.009
	136.444 - 134.139					34.9466	-18920.20	2044370.00	0.009
	134.139 - 131.833					35.6246	-19420.40	2084040.00	0.009
	131.833 - 129.528					36.3026	-19929.10	2123700.00	0.009
	129.528 - 127.222					36.9807	-20437.90	2163370.00	0.009
	127.222 - 124.917					37.6587	-21759.30	2203040.00	0.010
	124.917 - 122.611					38.3368	-22283.00	2242700.00	0.010
	122.611 - 120.306					39.0148	-22827.90	2282370.00	0.010
	120.306 - 118					39.6929	-23380.90	2322030.00	0.010
	118 - 115.694					40.3709	-23941.80	2361700.00	0.010
	115.694 - 113.389					41.0489	-24510.60	2401360.00	0.010
	113.389 - 111.083					41.7270	-25087.20	2441030.00	0.010
	111.083 - 108.778					42.4050	-25671.50	2480690.00	0.010
	108.778 - 106.472					43.0831	-26263.50	2520360.00	0.010
	106.472 - 104.167					43.7611	-26863.20	2560030.00	0.010
	104.167 - 101.861					44.4392	-27470.30	2599690.00	0.011
	101.861 - 99.5556					45.1172	-28085.00	2639360.00	0.011
	99.5556 -					45.7952	-28707.10	2679020.00	0.011

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AG

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
L3	97.25	TP61.5724x45.8579x0.375	53.00	0.00	0.0	47.7804	-14786.30	2795150.00	0.005
	97.25 - 90.5					56.5181	-17339.20	3306310.00	0.005
	90.5 - 88.4028					57.2583	-32813.60	3349610.00	0.010
	88.4028 - 86.3056					57.9984	-33488.20	3392910.00	0.010
	86.3056 - 84.2083					58.7385	-34170.00	3436200.00	0.010
	84.2083 - 82.1111					59.4786	-34859.00	3479500.00	0.010
	82.1111 - 80.0139					60.2188	-35555.20	3522800.00	0.010
	80.0139 - 77.9167					60.9589	-36258.40	3566100.00	0.010
	77.9167 - 75.8194					61.6990	-36968.90	3609390.00	0.010
	75.8194 - 73.7222					62.4392	-37686.40	3652690.00	0.010
	73.7222 - 71.625					63.1793	-38411.10	3695990.00	0.010
	71.625 - 69.5278					63.9194	-39142.80	3739290.00	0.010
	69.5278 - 67.4306					64.6595	-39881.70	3782580.00	0.011
	67.4306 - 65.3333					65.3997	-40627.60	3825880.00	0.011
	65.3333 - 63.2361					66.1398	-41380.70	3869180.00	0.011
	63.2361 - 61.1389					66.8799	-42140.80	3912480.00	0.011
	61.1389 - 59.0417					67.6201	-42908.00	3955770.00	0.011
	59.0417 - 56.9444					68.3602	-43682.30	3999070.00	0.011
	56.9444 - 54.8472					69.1003	-44463.70	4042370.00	0.011
	54.8472 - 52.75					69.8404	-45252.10	4085670.00	0.011
L4	52.75 - 44.25	TP73.9425x58.3021x0.4375	52.75	0.00	0.0	72.8402	-24043.50	4261150.00	0.006
	44.25 - 41.9211					83.8519	-27476.20	4905340.00	0.006
	41.9211 - 39.5921					84.8108	-52569.70	4961430.00	0.011
	39.5921 - 37.2632					85.7697	-53605.10	5017530.00	0.011
	37.2632 - 34.9342					86.7286	-54650.70	5073620.00	0.011
	34.9342 - 32.6053					87.6875	-55706.30	5129720.00	0.011
	32.6053 - 30.2763					88.6464	-56772.10	5185810.00	0.011
	30.2763 - 27.9474					89.6053	-57848.00	5241910.00	0.011
	27.9474 - 25.6184					90.5642	-58933.90	5298010.00	0.011
	25.6184 - 23.2895					91.5231	-60029.90	5354100.00	0.011
	23.2895 - 20.9605					92.4820	-61136.00	5410200.00	0.011
						93.4409	-62252.10	5466290.00	0.011

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
	20.9605 - 18.6316					94.3997	-63378.30	5522390.00	0.011
	18.6316 - 16.3026					95.3586	-64514.50	5578480.00	0.012
	16.3026 - 13.9737					96.3175	-65660.70	5634580.00	0.012
	13.9737 - 11.6447					97.2764	-66817.00	5690670.00	0.012
	11.6447 - 9.31579					98.2353	-67983.30	5746770.00	0.012
	9.31579 - 6.98684					99.1942	-69159.60	5802860.00	0.012
	6.98684 - 4.65789					100.153	-70346.00	5858960.00	0.012
	4.65789 - 2.32895					101.112	-71542.30	5915050.00	0.012
	2.32895 - 0					102.071	-72748.70	5971150.00	0.012

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} lb-ft	φM _{ux} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} lb-ft	φM _{uy} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	180 - 178.079	TP34.6781x22.4475x0.25	131.34	626428.33	0.000	0.00	626428.33	0.000
	178.079 - 176.158		526.00	658339.17	0.001	0.00	658339.17	0.000
	176.158 - 174.237		9441.50	690066.67	0.014	0.00	690066.67	0.000
	174.237 - 172.316		31138.67	719376.67	0.043	0.00	719376.67	0.000
	172.316 - 170.395		53115.58	749085.83	0.071	0.00	749085.83	0.000
	170.395 - 168.474		75375.50	779181.67	0.097	0.00	779181.67	0.000
	168.474 - 166.553		97922.50	809650.00	0.121	0.00	809650.00	0.000
	166.553 - 164.632		120761.67	840475.00	0.144	0.00	840475.00	0.000
	164.632 - 162.711		153702.50	871650.00	0.176	0.00	871650.00	0.000
	162.711 - 160.789		191690.83	903158.33	0.212	0.00	903158.33	0.000
	160.789 - 158.868		230000.00	934983.33	0.246	0.00	934983.33	0.000
	158.868 - 156.947		268608.33	967108.33	0.278	0.00	967108.33	0.000
	156.947 - 155.026		307518.33	999525.00	0.308	0.00	999525.00	0.000
	155.026 - 153.105		353481.67	1032225.00	0.342	0.00	1032225.00	0.000
	153.105 - 151.184		407313.33	1065183.33	0.382	0.00	1065183.33	0.000
	151.184 - 149.263		461498.33	1098391.67	0.420	0.00	1098391.67	0.000
	149.263 -		515985.00	1131841.67	0.456	0.00	1131841.67	0.000

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{rx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} lb-ft	ϕM_{ry} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
	147.342							
	147.342 - 145.421		570774.17	1165516.67	0.490	0.00	1165516.67	0.000
	145.421 - 143.5		625868.33	1199391.67	0.522	0.00	1199391.67	0.000
L2	143.5 - 138.75	TP48.4843x32.7698x0.3125	349020.00	1283983.33	0.272	0.00	1283983.33	0.000
	138.75 - 136.444		414630.83	1677633.33	0.247	0.00	1677633.33	0.000
	136.444 - 134.139		831336.67	1736450.00	0.479	0.00	1736450.00	0.000
	134.139 - 131.833		899491.67	1795858.33	0.501	0.00	1795858.33	0.000
	131.833 - 129.528		968125.00	1855816.67	0.522	0.00	1855816.67	0.000
	129.528 - 127.222		1037225.00	1916316.67	0.541	0.00	1916316.67	0.000
	127.222 - 124.917		1106983.33	1977333.33	0.560	0.00	1977333.33	0.000
	124.917 - 122.611		1177366.67	2038833.33	0.577	0.00	2038833.33	0.000
	122.611 - 120.306		1251775.00	2100800.00	0.596	0.00	2100800.00	0.000
	120.306 - 118		1326825.00	2163216.67	0.613	0.00	2163216.67	0.000
	118 - 115.694		1402358.33	2226050.00	0.630	0.00	2226050.00	0.000
	115.694 - 113.389		1478383.33	2289275.00	0.646	0.00	2289275.00	0.000
	113.389 - 111.083		1554900.00	2352875.00	0.661	0.00	2352875.00	0.000
	111.083 - 108.778		1631916.67	2416825.00	0.675	0.00	2416825.00	0.000
	108.778 - 106.472		1709433.33	2481100.00	0.689	0.00	2481100.00	0.000
	106.472 - 104.167		1787458.33	2545683.33	0.702	0.00	2545683.33	0.000
	104.167 - 101.861		1865983.33	2610533.33	0.715	0.00	2610533.33	0.000
	101.861 - 99.5556		1945016.67	2675650.00	0.727	0.00	2675650.00	0.000
	99.5556 - 97.25		2024566.67	2740991.67	0.739	0.00	2740991.67	0.000
L3	97.25 - 90.5	TP61.5724x45.8579x0.375	2104625.00	2806541.67	0.750	0.00	2806541.67	0.000
	90.5 - 88.4028		1090666.67	2999433.33	0.364	0.00	2999433.33	0.000
	88.4028 - 86.3056		1251966.67	3775408.33	0.332	0.00	3775408.33	0.000
	86.3056 - 84.2083		2417675.00	3857825.00	0.627	0.00	3857825.00	0.000
	84.2083 - 82.1111		2493166.67	3940641.67	0.633	0.00	3940641.67	0.000
	82.1111 - 80.0139		2569100.00	4023825.00	0.638	0.00	4023825.00	0.000
	80.0139 - 77.9167		2645475.00	4107366.67	0.644	0.00	4107366.67	0.000
	77.9167 - 75.8194		2722300.00	4191250.00	0.650	0.00	4191250.00	0.000
	75.8194 - 73.7222		2799558.33	4275450.00	0.655	0.00	4275450.00	0.000
	73.7222 - 71.625		2877275.00	4359950.00	0.660	0.00	4359950.00	0.000
			2955433.33	4444741.67	0.665	0.00	4444741.67	0.000
			3034033.33	4529791.67	0.670	0.00	4529791.67	0.000

tnxTower

Nello Corporation
 1201 S. Sheridan Street
 South Bend, IN. 46619
 Phone: 800-806-3556
 FAX:

Job	SO31895; Tower 661441; Foundation 661442	Page	37 of 44
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Client	The Towers, LLC	Designed by	AG

Section No.	Elevation ft	Size	M_{ux} lb-ft	ϕM_{ux} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M_{uy} lb-ft	ϕM_{uy} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
	71.625 - 69.5278		3113083.33	4615100.00	0.675	0.00	4615100.00	0.000
	69.5278 - 67.4306		3192583.33	4700633.33	0.679	0.00	4700633.33	0.000
	67.4306 - 65.3333		3272533.33	4786383.33	0.684	0.00	4786383.33	0.000
	65.3333 - 63.2361		3352933.33	4872333.33	0.688	0.00	4872333.33	0.000
	63.2361 - 61.1389		3433783.33	4958458.33	0.693	0.00	4958458.33	0.000
	61.1389 - 59.0417		3515083.33	5044741.67	0.697	0.00	5044741.67	0.000
	59.0417 - 56.9444		3596841.67	5131175.00	0.701	0.00	5131175.00	0.000
	56.9444 - 54.8472		3679041.67	5217725.00	0.705	0.00	5217725.00	0.000
	54.8472 - 52.75		3761708.33	5304391.67	0.709	0.00	5304391.67	0.000
	52.75 - 44.25		1935508.33	5656374.67	0.342	0.00	5656374.67	0.000
L4	52.75 - 44.25	TP73.9425x58.3021x0.4375	2166733.33	6906458.00	0.314	0.00	6906458.00	0.000
	44.25 - 41.9211		4197066.67	7034550.00	0.597	0.00	7034550.00	0.000
	41.9211 - 39.5921		4292425.00	7163033.33	0.599	0.00	7163033.33	0.000
	39.5921 - 37.2632		4388325.00	7291883.33	0.602	0.00	7291883.33	0.000
	37.2632 - 34.9342		4484741.67	7421066.67	0.604	0.00	7421066.67	0.000
	34.9342 - 32.6053		4581683.33	7550574.67	0.607	0.00	7550574.67	0.000
	32.6053 - 30.2763		4679133.33	7680366.67	0.609	0.00	7680366.67	0.000
	30.2763 - 27.9474		4777100.00	7810433.33	0.612	0.00	7810433.33	0.000
	27.9474 - 25.6184		4875575.00	7940741.33	0.614	0.00	7940741.33	0.000
	25.6184 - 23.2895		4974541.67	8071266.67	0.616	0.00	8071266.67	0.000
	23.2895 - 20.9605		5074008.33	8201983.33	0.619	0.00	8201983.33	0.000
	20.9605 - 18.6316		5173958.33	8332883.33	0.621	0.00	8332883.33	0.000
	18.6316 - 16.3026		5274391.67	8463916.67	0.623	0.00	8463916.67	0.000
	16.3026 - 13.9737		5375308.33	8595083.33	0.625	0.00	8595083.33	0.000
	13.9737 - 11.6447		5476691.67	8726333.33	0.628	0.00	8726333.33	0.000
	11.6447 - 9.31579		5578550.00	8857666.67	0.630	0.00	8857666.67	0.000
	9.31579 - 6.98684		5680866.67	8989083.33	0.632	0.00	8989083.33	0.000
	6.98684 - 4.65789		5783633.33	9120500.00	0.634	0.00	9120500.00	0.000
	4.65789 - 2.32895		5886858.00	9251916.67	0.636	0.00	9251916.67	0.000
	2.32895 - 0		5990533.33	9383250.00	0.638	0.00	9383250.00	0.000

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	Client The Towers, LLC	Designed by AG

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	180 - 178.079	TP34.6781x22.4475x0.25	137.23	317053.00	0.000	0.00	632148.33	0.000
	178.079 - 176.158		276.38	324985.00	0.001	0.00	664175.00	0.000
	176.158 - 174.237		11223.80	324985.00	0.035	0.10	696992.50	0.000
	174.237 - 172.316		11367.60	332917.00	0.034	0.08	730600.83	0.000
	172.316 - 170.395		11514.30	340849.00	0.034	0.08	765000.83	0.000
	170.395 - 168.474		11663.10	348781.00	0.033	0.07	800192.50	0.000
	168.474 - 166.553		11814.00	356713.00	0.033	0.07	836175.00	0.000
	166.553 - 164.632		11967.20	364645.00	0.033	0.07	872950.00	0.000
	164.632 - 162.711		19718.30	380510.00	0.052	0.01	910516.67	0.000
	162.711 - 160.789		19868.50	380510.00	0.052	0.03	948875.00	0.000
	160.789 - 158.868		20024.40	388442.00	0.052	0.04	988016.67	0.000
	158.868 - 156.947		20181.70	396374.00	0.051	0.06	1027958.33	0.000
	156.947 - 155.026		20340.30	404306.00	0.050	0.09	1068691.67	0.000
	155.026 - 153.105		27987.00	420170.00	0.067	0.09	1110216.67	0.000
	153.105 - 151.184		28138.10	420170.00	0.067	0.14	1152525.00	0.000
	151.184 - 149.263		28295.60	428102.00	0.066	0.19	1195633.33	0.000
	149.263 - 147.342		28453.80	436034.00	0.065	0.25	1239525.00	0.000
	147.342 - 145.421		28612.80	443966.00	0.064	0.32	1284216.67	0.000
	145.421 - 143.5		28772.50	451898.00	0.064	0.41	1329691.67	0.000
	L2		143.5 - 138.75	TP48.4843x32.7698x0.3125	13490.70	459831.00	0.029	0.23
138.75 - 136.444		15783.60	564997.00		0.028	0.28	1748366.67	0.000
136.444 - 134.139		29476.80	589513.00		0.050	0.64	1819658.33	0.000
134.139 - 131.833		29682.00	601412.00		0.049	0.79	1892383.33	0.000
131.833 - 129.528		29888.40	613312.00		0.049	0.95	1966525.00	0.000
129.528 - 127.222		30096.10	625212.00		0.048	1.13	2042100.00	0.000
127.222 - 124.917		30312.10	649011.00		0.047	0.85	2119091.67	0.000
124.917 - 122.611		32142.00	660911.00		0.049	1014.36	2197516.67	0.000
122.611 - 120.306		32469.50	672810.00		0.048	985.78	2277358.33	0.000
120.306 - 118		32680.90	684710.00		0.048	985.48	2358625.00	0.000
118 - 115.694		32893.60	696610.00		0.047	985.26	2441316.67	0.000
		33107.50	708509.00		0.047	985.13	2525441.67	0.000

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Client	The Towers, LLC

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Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
L3	115.694 - 113.389	TP61.5724x45.8579x0.375	33322.80	720409.00	0.046	984.92	2610983.33	0.000
	113.389 - 111.083		33539.40	732309.00	0.046	984.70	2697950.00	0.000
	111.083 - 108.778		33757.40	744208.00	0.045	984.50	2786341.67	0.000
	108.778 - 106.472		33976.70	756108.00	0.045	984.19	2876166.67	0.000
	106.472 - 104.167		34197.50	768008.00	0.045	983.99	2967408.33	0.000
	104.167 - 101.861		34419.70	779907.00	0.044	983.79	3060075.00	0.000
	101.861 - 99.5556		34643.30	791807.00	0.044	983.61	3154166.67	0.000
	99.5556 - 97.25		34868.30	803707.00	0.043	983.53	3249683.33	0.000
	97.25 - 90.5		16833.60	838545.00	0.020	457.65	3537516.67	0.000
	90.5 - 88.4028		18889.10	991893.00	0.019	525.54	4124716.67	0.000
	88.4028 - 86.3056		35916.10	1004880.00	0.036	983.02	4233458.33	0.000
	86.3056 - 84.2083		36127.20	1017870.00	0.035	983.02	4343608.33	0.000
	84.2083 - 82.1111		36338.60	1030860.00	0.035	982.89	4455175.00	0.000
	82.1111 - 80.0139		36550.40	1043850.00	0.035	982.63	4568158.33	0.000
	80.0139 - 77.9167		36762.50	1056840.00	0.035	982.65	4682550.00	0.000
	77.9167 - 75.8194		36975.00	1069830.00	0.035	982.40	4798366.67	0.000
	75.8194 - 73.7222		37187.80	1082820.00	0.034	982.42	4915591.67	0.000
	73.7222 - 71.625		37401.00	1095810.00	0.034	982.31	5034233.33	0.000
	71.625 - 69.5278		37614.50	1108800.00	0.034	982.08	5154283.33	0.000
	69.5278 - 67.4306		37828.40	1121790.00	0.034	982.11	5275758.33	0.000
67.4306 - 65.3333	38042.60	1134780.00	0.034	981.88	5398641.67	0.000		
65.3333 - 63.2361	38257.20	1147760.00	0.033	981.92	5522933.33	0.000		
63.2361 - 61.1389	38472.10	1160750.00	0.033	981.83	5648650.00	0.000		
61.1389 - 59.0417	38687.30	1173740.00	0.033	981.61	5775783.33	0.000		
59.0417 - 56.9444	38902.90	1186730.00	0.033	981.52	5904324.67	0.000		
56.9444 - 54.8472	39118.90	1199720.00	0.033	981.45	6034283.33	0.000		
54.8472 - 52.75	39335.20	1212710.00	0.032	981.52	6165650.00	0.000		
52.75 - 44.25	39551.80	1225700.00	0.032	981.46	6298441.33	0.000		
L4	52.75 - 44.25	TP73.9425x58.3021x0.4375	19463.70	1278350.00	0.015	462.93	6851108.00	0.000
	44.25 - 41.9211		21199.40	1471600.00	0.014	518.43	7782133.33	0.000
	41.9211 - 39.5921		40863.80	1488430.00	0.027	981.13	7961133.33	0.000
	39.5921 -		41093.30	1505260.00	0.027	981.23	8142174.67	0.000
	39.5921 -		41320.40	1522090.00	0.027	981.02	8325241.33	0.000

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	Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:43:03 04/23/24
	Client The Towers, LLC	Designed by AG

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u lb-ft	ϕT_n lb-ft	Ratio $\frac{T_u}{\phi T_n}$
	37.2632							
	37.2632 - 34.9342		41545.40	1538920.00	0.027	980.98	8510333.33	0.000
	34.9342 - 32.6053		41768.00	1555740.00	0.027	980.94	8697500.00	0.000
	32.6053 - 30.2763		41988.40	1572570.00	0.027	980.90	8886666.67	0.000
	30.2763 - 27.9474		42206.50	1589400.00	0.027	980.86	9077916.67	0.000
	27.9474 - 25.6184		42422.30	1606230.00	0.026	980.98	9271166.67	0.000
	25.6184 - 23.2895		42635.80	1623060.00	0.026	980.96	9466416.67	0.000
	23.2895 - 20.9605		42847.10	1639890.00	0.026	980.77	9663750.00	0.000
	20.9605 - 18.6316		43056.10	1656720.00	0.026	980.74	9863083.33	0.000
	18.6316 - 16.3026		43262.70	1673540.00	0.026	980.88	10064500.00	0.000
	16.3026 - 13.9737		43467.10	1690370.00	0.026	980.87	10267916.67	0.000
	13.9737 - 11.6447		43669.20	1707200.00	0.026	980.68	10473416.67	0.000
	11.6447 - 9.31579		43869.00	1724030.00	0.025	980.83	10680916.67	0.000
	9.31579 - 6.98684		44066.50	1740860.00	0.025	980.66	10890416.67	0.000
	6.98684 - 4.65789		44261.70	1757690.00	0.025	980.65	11102000.00	0.000
	4.65789 - 2.32895		44454.50	1774520.00	0.025	980.65	11315582.67	0.000
	2.32895 - 0		44645.10	1791340.00	0.025	980.64	11531249.33	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	180 - 178.079	0.000	0.000	0.000	0.000	0.000	0.000	1.000	4.8.2 ✓
	178.079 - 176.158	0.000	0.001	0.000	0.001	0.000	0.001	1.000	4.8.2 ✓
	176.158 - 174.237	0.005	0.014	0.000	0.035	0.000	0.020	1.000	4.8.2 ✓
	174.237 - 172.316	0.005	0.043	0.000	0.034	0.000	0.049	1.000	4.8.2 ✓
	172.316 - 170.395	0.005	0.071	0.000	0.034	0.000	0.077	1.000	4.8.2 ✓
	170.395 - 168.474	0.005	0.097	0.000	0.033	0.000	0.103	1.000	4.8.2 ✓
	168.474 - 166.553	0.005	0.121	0.000	0.033	0.000	0.127	1.000	4.8.2 ✓

tnxTower

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Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	166.553 - 164.632	0.005	0.144	0.000	0.033	0.000	0.150	1.000	4.8.2 ✓
	164.632 - 162.711	0.008	0.176	0.000	0.052	0.000	0.187	1.000	4.8.2 ✓
	162.711 - 160.789	0.008	0.212	0.000	0.052	0.000	0.223	1.000	4.8.2 ✓
	160.789 - 158.868	0.008	0.246	0.000	0.052	0.000	0.257	1.000	4.8.2 ✓
	158.868 - 156.947	0.008	0.278	0.000	0.051	0.000	0.289	1.000	4.8.2 ✓
	156.947 - 155.026	0.008	0.308	0.000	0.050	0.000	0.318	1.000	4.8.2 ✓
	155.026 - 153.105	0.011	0.342	0.000	0.067	0.000	0.358	1.000	4.8.2 ✓
	153.105 - 151.184	0.011	0.382	0.000	0.067	0.000	0.398	1.000	4.8.2 ✓
	151.184 - 149.263	0.011	0.420	0.000	0.066	0.000	0.435	1.000	4.8.2 ✓
	149.263 - 147.342	0.011	0.456	0.000	0.065	0.000	0.471	1.000	4.8.2 ✓
	147.342 - 145.421	0.011	0.490	0.000	0.064	0.000	0.505	1.000	4.8.2 ✓
	145.421 - 143.5	0.011	0.522	0.000	0.064	0.000	0.537	1.000	4.8.2 ✓
	143.5 - 138.75	0.005	0.272	0.000	0.029	0.000	0.278	1.000	4.8.2 ✓
L2	143.5 - 138.75	0.005	0.247	0.000	0.028	0.000	0.253	1.000	4.8.2 ✓
	138.75 - 136.444	0.009	0.479	0.000	0.050	0.000	0.490	1.000	4.8.2 ✓
	136.444 - 134.139	0.009	0.501	0.000	0.049	0.000	0.513	1.000	4.8.2 ✓
	134.139 - 131.833	0.009	0.522	0.000	0.049	0.000	0.533	1.000	4.8.2 ✓
	131.833 - 129.528	0.009	0.541	0.000	0.048	0.000	0.553	1.000	4.8.2 ✓
	129.528 - 127.222	0.009	0.560	0.000	0.047	0.000	0.571	1.000	4.8.2 ✓
	127.222 - 124.917	0.010	0.577	0.000	0.049	0.000	0.590	1.000	4.8.2 ✓
	124.917 - 122.611	0.010	0.596	0.000	0.048	0.000	0.608	1.000	4.8.2 ✓
	122.611 - 120.306	0.010	0.613	0.000	0.048	0.000	0.626	1.000	4.8.2 ✓
	120.306 - 118	0.010	0.630	0.000	0.047	0.000	0.642	1.000	4.8.2 ✓
	118 - 115.694	0.010	0.646	0.000	0.047	0.000	0.658	1.000	4.8.2 ✓
	115.694 - 113.389	0.010	0.661	0.000	0.046	0.000	0.673	1.000	4.8.2 ✓
	113.389 - 111.083	0.010	0.675	0.000	0.046	0.000	0.688	1.000	4.8.2 ✓

tnxTower

Nello Corporation
 1201 S. Sheridan Street
 South Bend, IN. 46619
 Phone: 800-806-3556
 FAX:

Job	SO31895; Tower 661441; Foundation 661442	Page	42 of 44
Project	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date	16:43:03 04/23/24
Client	The Towers, LLC	Designed by	AG

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	111.083 - 108.778	0.010	0.689	0.000	0.045	0.000	0.701	1.000	4.8.2 ✓
	108.778 - 106.472	0.010	0.702	0.000	0.045	0.000	0.715	1.000	4.8.2 ✓
	106.472 - 104.167	0.010	0.715	0.000	0.045	0.000	0.727	1.000	4.8.2 ✓
	104.167 - 101.861	0.011	0.727	0.000	0.044	0.000	0.739	1.000	4.8.2 ✓
	101.861 - 99.5556	0.011	0.739	0.000	0.044	0.000	0.751	1.000	4.8.2 ✓
	99.5556 - 97.25	0.011	0.750	0.000	0.043	0.000	0.763	1.000	4.8.2 ✓
	97.25 - 90.5	0.005	0.364	0.000	0.020	0.000	0.369	1.000	4.8.2 ✓
L3	97.25 - 90.5	0.005	0.332	0.000	0.019	0.000	0.337	1.000	4.8.2 ✓
	90.5 - 88.4028	0.010	0.627	0.000	0.036	0.000	0.638	1.000	4.8.2 ✓
	88.4028 - 86.3056	0.010	0.633	0.000	0.035	0.000	0.644	1.000	4.8.2 ✓
	86.3056 - 84.2083	0.010	0.638	0.000	0.035	0.000	0.650	1.000	4.8.2 ✓
	84.2083 - 82.1111	0.010	0.644	0.000	0.035	0.000	0.655	1.000	4.8.2 ✓
	82.1111 - 80.0139	0.010	0.650	0.000	0.035	0.000	0.661	1.000	4.8.2 ✓
	80.0139 - 77.9167	0.010	0.655	0.000	0.035	0.000	0.666	1.000	4.8.2 ✓
	77.9167 - 75.8194	0.010	0.660	0.000	0.034	0.000	0.671	1.000	4.8.2 ✓
	75.8194 - 73.7222	0.010	0.665	0.000	0.034	0.000	0.676	1.000	4.8.2 ✓
	73.7222 - 71.625	0.010	0.670	0.000	0.034	0.000	0.681	1.000	4.8.2 ✓
	71.625 - 69.5278	0.010	0.675	0.000	0.034	0.000	0.686	1.000	4.8.2 ✓
	69.5278 - 67.4306	0.011	0.679	0.000	0.034	0.000	0.691	1.000	4.8.2 ✓
	67.4306 - 65.3333	0.011	0.684	0.000	0.033	0.000	0.695	1.000	4.8.2 ✓
	65.3333 - 63.2361	0.011	0.688	0.000	0.033	0.000	0.700	1.000	4.8.2 ✓
	63.2361 - 61.1389	0.011	0.693	0.000	0.033	0.000	0.704	1.000	4.8.2 ✓
	61.1389 - 59.0417	0.011	0.697	0.000	0.033	0.000	0.709	1.000	4.8.2 ✓
	59.0417 - 56.9444	0.011	0.701	0.000	0.033	0.000	0.713	1.000	4.8.2 ✓
	56.9444 - 54.8472	0.011	0.705	0.000	0.032	0.000	0.717	1.000	4.8.2 ✓
	54.8472 - 52.75	0.011	0.709	0.000	0.032	0.000	0.721	1.000	4.8.2 ✓

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 43 of 44
	Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:43:03 04/23/24
	Client The Towers, LLC	Designed by AG

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
	52.75 - 44.25	0.006	0.342	0.000	0.015	0.000	0.348	1.000	4.8.2 ✓
L4	52.75 - 44.25	0.006	0.314	0.000	0.014	0.000	0.320	1.000	4.8.2 ✓
	44.25 - 41.9211	0.011	0.597	0.000	0.027	0.000	0.608	1.000	4.8.2 ✓
	41.9211 - 39.5921	0.011	0.599	0.000	0.027	0.000	0.611	1.000	4.8.2 ✓
	39.5921 - 37.2632	0.011	0.602	0.000	0.027	0.000	0.613	1.000	4.8.2 ✓
	37.2632 - 34.9342	0.011	0.604	0.000	0.027	0.000	0.616	1.000	4.8.2 ✓
	34.9342 - 32.6053	0.011	0.607	0.000	0.027	0.000	0.618	1.000	4.8.2 ✓
	32.6053 - 30.2763	0.011	0.609	0.000	0.027	0.000	0.621	1.000	4.8.2 ✓
	30.2763 - 27.9474	0.011	0.612	0.000	0.027	0.000	0.623	1.000	4.8.2 ✓
	27.9474 - 25.6184	0.011	0.614	0.000	0.026	0.000	0.626	1.000	4.8.2 ✓
	25.6184 - 23.2895	0.011	0.616	0.000	0.026	0.000	0.628	1.000	4.8.2 ✓
	23.2895 - 20.9605	0.011	0.619	0.000	0.026	0.000	0.631	1.000	4.8.2 ✓
	20.9605 - 18.6316	0.011	0.621	0.000	0.026	0.000	0.633	1.000	4.8.2 ✓
	18.6316 - 16.3026	0.012	0.623	0.000	0.026	0.000	0.635	1.000	4.8.2 ✓
	16.3026 - 13.9737	0.012	0.625	0.000	0.026	0.000	0.638	1.000	4.8.2 ✓
	13.9737 - 11.6447	0.012	0.628	0.000	0.026	0.000	0.640	1.000	4.8.2 ✓
	11.6447 - 9.31579	0.012	0.630	0.000	0.025	0.000	0.642	1.000	4.8.2 ✓
	9.31579 - 6.98684	0.012	0.632	0.000	0.025	0.000	0.645	1.000	4.8.2 ✓
	6.98684 - 4.65789	0.012	0.634	0.000	0.025	0.000	0.647	1.000	4.8.2 ✓
	4.65789 - 2.32895	0.012	0.636	0.000	0.025	0.000	0.649	1.000	4.8.2 ✓
	2.32895 - 0	0.012	0.638	0.000	0.025	0.000	0.651	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
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tnxTower

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Job SO31895; Tower 661441; Foundation 661442	Page 44 of 44
Project NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	Date 16:43:03 04/23/24
Client The Towers, LLC	Designed by AG

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
L1	180 - 138.75	Pole	TP34.6781x22.4475x0.25	1	-16531.80	1532770.00	53.7	Pass	
L2	138.75 - 90.5	Pole	TP48.4843x32.7698x0.3125	2	-28707.10	2679020.00	76.3	Pass	
L3	90.5 - 44.25	Pole	TP61.5724x45.8579x0.375	3	-45252.10	4085670.00	72.1	Pass	
L4	44.25 - 0	Pole	TP73.9425x58.3021x0.4375	4	-72748.70	5971150.00	65.1	Pass	
							Summary		
							Pole (L2)	76.3	Pass
							Base Plate	78.1	Pass
							RATING =	78.1	Pass

Yield Strength (ksi)	Ultimate Tensile Strength (ksi)	Bolt Threads per Inch	Root Diameter of Bolt (in)	Bolt Gross Area (in ²)	Bolt Net Area (in ²)	Bolt Cage Moment of Inertia [Area] (in ⁴)	Top of Concrete to Bottom of Leveling Nut (in)	Plastic Section Modulus (in ³)	Maximum Bolt Tensile Force (kip)	Maximum Bolt Compressive Force (kip)	Maximum Bolt Shear Force (kip)	Bending Moment Due to Shear (kip-ft)	Maximum Force on Bolt Head (kip)
75	100	4.5	2.033	3.976	3.248	14762.25	2.250	1.401	210.916	219.140	2.542	0.310	56.154

TIA-222-H 4.9.9 TIA-222-H 4.9.9.1 TIA-222-H 4.9.9

Anchor Concrete Design

Anchor Embedment Depth (in)	Effective Embedment Depth (in)	Required Rebar Tensile Development Length (in)	Rebar Engaged by Bolts (in)	Spacing / Cover Dimension (in)	Transverse Reinf. Index (in)	Anchor Tensile Development Length (in)	Force Resisted by Development (%)	Hex Nut Width Across Flats (in)	Net Bearing Area of Hex Head (in ²)	Cracking Modification Factor	Pullout Reduction Factor	Nominal Pullout Strength of Anchor (kip)	Design Pullout Strength (kip)
58.00	55.38	30.27	43.94	7.07	0.16	75.47	73%	3.500	6.633	1.4	0.70	334.290	234.003

OK OK OK OK OK OK OK OK OK OK OK OK OK OK

Anchor Steel Design

Bolt Resistance Factor	Bolt Nominal Tensile Strength (kip)	Bolt Design Tensile Strength (kip)	Shear Reduction Factor	Grout Factor	Bolt Design Shear Strength [ACI] (kip)	Connection Length Reduction Factor	Bolt Design Shear Strength [TIA] (kip)	Combined Shear & Tension	Flexure Resistance Factor	Bolt Design Flexural Strength (kip-ft)	Nominal Shear Rupture Strength (kip)	Nominal Compress on Yield Strength (kip)	Nominal Shear Yield Strength (kip)	Anchor Bolt Interaction Equation	Anchor Spacing - Ctr-Ctr (in)	Gap Between Rebar & Plate (in)
0.75	324.768	243.576	0.65	0.80	101.328	1.00	149.103	0.750	0.90	7.883	198.804	243.576	73.073	0.811	14.137	3.12

TIA-222-H 4.9.9 TIA-222-H 4.9.9 OK OK OK OK OK OK OK OK OK OK OK OK OK OK OK OK OK

Notes

- Foundation design is based on the Geotechnical Report dated 03/27/2024, by Power of Design; Project No. 23-158653.
- Groundwater was not encountered during the geotechnical investigation.
- Temporary steel casing or drilling slurry may be required for installation of the drilled pier. A clean-out bucket should be used to remove any cuttings and loose soils in the bottom of the shaft excavation.
- Concrete shall be placed by tremie methods if there is more than 1 inch of water or drilling fluid at the bottom of the shaft excavation or if water infiltration exceeds a rise of 1/4" per minute.
- Rock conditions were encountered about 6.9 feet bgs in the geotechnical investigation.

Pole Drilled Pier Foundation Design Summary

Max. Foundation Capacity Rating:	86.6%
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FOUNDATION DIMENSIONS	
Pole Outside Diameter:	73.94 in
Pier Extension:	0.5 ft
Depth:	25.5 ft
Pier Diameter:	8.5 ft
Clear Cover:	3 in
Clear Cover (Top of Pier):	3 in
Volume:	54.6 yd3

TOWER REACTIONS	
Tower Shear:	45.8 kip
Tower Moment:	6531.5 ft-kip
Tower Weight:	74.0 kip

MATERIAL SPECIFICATIONS	
Concrete Strength:	4500 psi
Concrete Weight:	150 pcf
Rebar Yield Strength:	60 ksi

PIER REINFORCEMENT	
Size:	9
Individual Bars:	1
	Single Bar
On Center Spacing:	6.4 in
Length:	306 in
Total Bar Quantity:	46
Total Weight:	3988 lbs

ANCHORING DETAILS	
Anchor P/N:	108742
Anchor Diameter:	2.25 in
Anchor Length:	72 in
Anchor Quantity:	18
Anchor Projection:	12 in
	+ 2" - 0"
Template P/N	661444
Embedment Plate OD:	86 in
Bolt Circle Diameter:	81 in
Embedment Plate ID:	76 in

TIE REINFORCEMENT	
Size:	6
Length:	324 in
Circular Tie Outer Diameter:	96 in
Overlap:	6 in
Tie Termination Type:	Overlap
Total Quantity:	38
Total Weight:	1541 lbs
Top Zone - Quantity:	2
Top Zone - Spacing:	5 in
Anchor Zone - Quantity:	12
Anchor Zone - Spacing:	6 in
Middle Zone - Quantity:	22
Middle Zone - Spacing:	9.6875 in
Bottom Zone - Quantity:	2
Bottom Zone - Spacing:	5 in

BACKFILL CRITERIA (NON-STRUCTURAL)	
Loose Lift Thickness:	8 in
Percent Compaction:	95%
ASTM Standard:	D698
Optimum Moisture Content	2%
Tolerance:	-2%

ECO #:	
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ADDITIONAL NOTES
<ul style="list-style-type: none"> - Foundation design is based on the Geotechnical Report dated 03/27/2024, by Power of Design; Project No. 23-158653. - Groundwater was not encountered during the geotechnical investigation. - Temporary steel casing or drilling slurry may be required for installation of the drilled pier. A clean-out bucket should be used to remove any cuttings and loose soils in the bottom of the shaft excavation. - Concrete shall be placed by tremie methods if there is more than 1 inch of water or drilling fluid at the bottom of the shaft excavation or if water infiltration exceeds a rise of 1/4" per minute. - Rock conditions were encountered about 6.9 feet bgs in the geotechnical investigation.

Pole Mat & Pier Foundation Design

Order/Quote Number: **SO31895**
 Part Number: **661442**
 Tower Model: **NTP 73.9" x 180"**
 Company: **The Towers, LLC**
 Site: **NP 180" - US-KY-5182 / Fairway - Taylor Co., KY**



Tower Reactions (Factored)	
Shear:	45.751 kips
Moment:	6531.482 ft-kips
Weight:	74.011 kips
Compression:	74.011 kips
Uplift:	0.000 kips

Foundation Design Reactions	
Additional Load Factor:	1.00
Shear:	45.751 kips
Moment:	6531.482 ft-kips
Weight:	74.011 kips
Compression:	74.011 kips

Site Details	
Soil Type:	Clay
Soil Unit Weight (Backfill):	110 pcf
Allowable Bearing Pressure:	8000 psf
Factor of Safety:	1
Ultimate Bearing Pressure:	8,000 psf
Bearing Pressure Type:	Net Bearing Pressure
Angle of Internal Friction:	0 degrees
Cohesion:	1000 psf
Sliding Friction Coefficient:	0.3
Frost Depth (Neglected):	1.67 ft
Min. Bearing Depth:	4 ft
Water Depth:	999 ft
Rock Depth:	6.9 ft
Passive Pressure Coefficient:	1.00
Active Pressure Coefficient:	1.00

Geotechnical Report	
Company:	Power of Design
Date:	3/27/2024
Project:	23-158653
Seismic Site Class:	C
Design Response Acc., S _{DS} :	0.350 g
Design Response Acc., S _{D1} :	0.110 g
Seismic Design Category:	C

ANSI/TIA-222-H - Design Factors	
Uplift Resistance Factor, Phi:	0.75
Compressive Resistance Factor, Phi:	0.75
Bearing Capacity Resistance, Phi:	0.75
Lateral Resistance Factor, Phi:	0.75

Design Dimensions	
Pole Base Outside Diameter:	73.9425 in
Pole Wall Thickness:	0.4375 in
Pier Extension:	0.5 ft
Pier Diameter:	8.5 ft
Depth:	7 ft
Pad Thickness:	2 ft
Pad Width:	28 ft
Eccentricity:	0.00 ft
Anchor Bolt Circle Diameter:	81 in
Embedment Plate Diameter:	86 in
Embedment Plate ID:	76 in
Distance to Concrete Edge:	14.00 ft
Soil Corrosion Risk:	

Material Specifications	
Concrete Unit Weight:	150 pcf
Concrete Strength:	4500 psi
Rebar Yield Strength:	60 ksi
Clear Cover:	3 in
Clear Cover (Top of Pier):	3 in
Clear Cover Tolerance, +/- (Top of Pier):	1 in

Development Length Requirements	
Pad Reinforcement Location Factor:	1.0
Pier Reinforcement Location Factor:	1.0
Coating Factor:	1.0
Lightweight Concrete Factor:	1.0
Transverse Reinforcement Index:	0.0 in
Compressive Development Length Reduction:	<input checked="" type="checkbox"/> No Reduction
Tension Development Length Reduction:	<input type="checkbox"/> Yes, Utilize Reduc.
Pad Ties Development Length Reduction:	<input checked="" type="checkbox"/> No Ties in Pad

Maximum Foundation Capacity Rating: **91.0%**

Summary Check	
Minimum Depth:	OK
Lateral Check:	OK
Overturning Check:	OK
Maximum Eccentricity Check:	OK
Bearing Check:	OK
Concrete Strength Check:	OK
Max Pad Reinforcement Spacing:	OK
Min. Pad Reinforcement Spacing:	OK
Pad Constructability Check:	OK
Min. Pad Reinforcement Check:	OK
Pad Reinforcement Yield Check:	OK
Pad Flexural Check:	OK
Pad Development Length:	OK
One Way Shear Check:	OK
Two-Way Shear Check:	OK
Vertical Bar Quantity Check:	OK
Min/Max Vertical Bar Spacing Check:	OK
Pier Constructability Check:	OK
Minimum Vertical Reinforcement:	OK
Pier Compressive Strength:	OK
Pier Flexural Strength:	OK
Shear Friction:	OK
Compressive Development in Pier:	OK
Compressive Development in Footing:	OK
Tensile Development in Pier:	OK
Tensile Development in Footing:	HOOK REQ'D
Hook Development Length:	OK
Space of Hook:	OK
Plate & Rebar Spacing Check:	OK
Anchor Embedment Clearance:	PIER ONLY
Anchor Bolt Spacing:	OK
Anchor Embedment Depth:	OK
Anchor Pull-out Check:	OK
Anchor Strength Check:	OK
Moment at 60% Check:	OK

Weight							
Concrete Pad Volume (cubic yd)	Concrete Pier Volume (cubic yd)	Total Concrete Volume (cubic yd)	Concrete Weight (282.01)	Soil Volume (cubic yd)	Soil Weight (399.99)	Total Dead Load (737.51)	Total Factored Dead Load (LC: 0.9D controls) (669.31)
58.07	11.56	69.63	282.01	134.68	399.99	603.68	669.31

Lateral Capacity											
Minimum Depth Required (ft)	Soil Unit Weight Below GWT (pcf)	Ultimate Passive Pressure						Ultimate Active Pressure			
		@ Depth Neglected (ksf)	@ Top of Footing (ksf)	@ Bottom of Footing (ksf)	@ Top of Pressure Zone (ksf)	@ GWT (ksf)	Average (ksf)	@ Top of Footing (ksf)	@ Bottom of Footing (ksf)	@ GWT (ksf)	Average (ksf)
4	47.6	2.44	2.55	2.77	2.55	111.89	2.66	0.00	0.00	107.89	0.00
OK											
Effective Pad Thickness (ft)	Effective Pad Area (sq ft)	Nominal Passive Resistance (kips)	Nominal Active Loading (kips)	Friction Resistance (kips)	Design Lateral Resistance (kips)						
2	56	148.96	0.00	221.3	277.7						
OK											
16.5%											

Overturning							
Weight of Soil Wedge on Back Face (kips)	Moment Resistance From Weight (ft-kips)	Moment Resistance from Soil Wedge (ft-kips)	Moment Resistance from Passive Pressure (ft-kips)	Moment Loading from Active Pressure (ft-kips)	Overturning Moment (ft-kips)	Design Overturning Resistance (ft-kips)	Maximum Eccentricity (LC: 0.9D) (ft)
0.00	9370.38	0.00	99.31	0.00	6874.61	9444.9	10.3
Solve for Min. Pressure						OK	OK
						72.8%	81.5%

Bearing Pressure										
Case 1: Entire Mat is in Positive Bearing				Case 2: Back Edge of Mat is Uplifting			Minimum Gross Bearing Pressure	Maximum Gross Bearing Pressure	Maximum Net Bearing Pressure	Maximum Bearing Pressure
Minimum Pressure (ksf)	Maximum Pressure (ksf)	Entire Mat is in Positive Bearing (TRUE/FALSE)	Adjusted Bearing Width (ft)	Minimum Pressure (ksf)	Maximum Pressure (ksf)	Back Edge of Mat is Uplifting (TRUE/FALSE)	Pressure (ksf)	Pressure (ksf)	Pressure (ksf)	Pressure (ksf)
-0.91	2.80	FALSE	14.04	0.00	3.75	TRUE	0.00	3.75	2.98	2.98
OK										
49.7%										

Pad Reinforcement Design										
Flexural Strength Reduction Factor = 0.9										
Number of Bars	Bar Size	Bar Length (in)	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Total Bar Area per Layer per Direction (sq in)	Minimum Bar Area Required (sq in)	Clr-Clr Spacing (in)	Clear Spacing (in)
45	9	330	1.13	3.40	16630	1.00	45.00	7.26	7.5	6.3
OK								OK		
								Constructability: OK		

Flexural Strength											
Effective Depth (in)	Effective Width (in)	Compressive Zone Depth (in)	Concrete Strength Factor	Moment Arm (ft)	Factored Moment (ft-kips)	Design Moment (ft-kips)	Required Development Length (in)	Available Development Length (in)	Effective Width 60% (in)	Moment 60% (ft-kips)	Design Moment 60% (ft-kips)
19.87	336.00	2.101	0.83	5.07	2972.85	3811.37	30.27	114.00	174	1783.71	1973.75
Yield Check: OK							OK		OK		
							78.0%		90.4%		

Concrete Shear Capacity										
Shear Strength Reduction Factor = 0.75										
One-Way Shear					Two-Way Shear					
Effective Shear Depth (ft)	One-Way Shear Section Width (ft)	Factored Shear Force (kips)	Nominal Concrete Shear Strength (kips)	Nominal Rebar Shear Strength (kips)	Design Shear Strength (kips)	Shear Perimeter (ft)	Factored Shear Force (kips)	Nominal Concrete Shear Strength (kips)	Nominal Rebar Shear Strength (kips)	Design Shear Strength (kips)
1.61	8.14	482.80	870.39	0.00	652.79	31.76	397.52	1974.44	0.00	1480.83
OK					OK					
					74.0%					

Tie Reinforcement Design						
Total						
Maximum	Number	Actual	Number	Number	Number	Number

Pole Mat & Pier Foundation Design Summary

Max. Foundation Capacity Rating: 91.0%

FOUNDATION DIMENSIONS	
Pole Diameter:	73.9425 in
Pier Extension:	0.5 ft
Pad Depth:	7 ft
Pad Width:	28 ft
Pad Thickness:	2 ft
Pier Diameter:	8.5 ft
Clear Cover:	3 in
Total Volume:	69.6 yd ³

PAD REINFORCEMENT	
Bar Size:	9
Bar Length:	330 in
Bar Quantity per Layer:	45
Total Quantity:	180
Total Weight:	16830 lbs

PIER REINFORCEMENT	
Bar Size:	9
Bar Length:	98 in
Bend Radius:	4.512 in
Standard Hook Length:	18.048 in
Hook Orientation:	Hooks Extend Outward
Bar Quantity:	43
Total Weight:	1194 lbs

TIE REINFORCEMENT	
Bar Size:	5
Bar Length:	321 in
Circular Tie Outer Diameter:	96 in
Overlap:	6 in
Tie Termination Type:	Overlap
Quantity of Ties in Pad:	N/A
Bar Quantity:	12
Total Weight:	334 lbs

TOWER REACTIONS	
Tower Shear:	45.8 kip
Tower Moment:	6531.5 ft-kip
Tower Weight:	74.0 kip

MATERIAL SPECIFICATIONS	
Concrete Strength:	4500 psi
Concrete Weight:	150 pcf
Soil Strength (Ultimate Bearing):	8,000 psf
Rebar Yield Strength:	60 ksi

ANCHORING DETAILS	
Anchor P/N:	108742
Anchor Diameter:	2.25 in
Anchor Length:	72 in
Anchor Quantity:	18
Anchor Projection:	12 in
	+ 2" - 0"
Embedment Plate P/N:	661444
Embedment Plate OD:	86 in
Bolt Circle Diameter:	81 in
Embedment Plate ID:	76 in

STRUCTURAL FILL CRITERIA	
Loose Lift Thickness:	8 in
Percent Compaction:	98%
ASTM Standard:	D698
Optimum Moisture Content	2%
Tolerance:	-2%
BACKFILL CRITERIA (NON-STRUCTURAL)	
Percent Compaction:	95%

ECO #:

ADDITIONAL NOTES

- Foundation design is based on the Geotechnical Report dated 03/27/2024, by Power of Design; Project No. 23-158653.
- Groundwater was not encountered during the geotechnical investigation.
- Rock conditions were encountered about 6.9 feet bgs in the geotechnical investigation (see geo report for details). The contractor should anticipate difficult excavation below this depth and be prepared with the necessary equipment to remove such material in order to create a level bearing surface. The depth to rock material may vary across the foundation footprint. The entire footing shall bear on leveled, competent rock or bear on a layer of lean concrete (2000 psi) placed in direct contact with competent rock.
- This mat design assumes an ultimate bearing capacity of 8000 psf (allowable bearing capacity of 8000 psf) based on the geotechnical report. The bearing surface shall be inspected prior to concrete placement.
- During placement, concrete shall be suitably consolidated. Proper curing methods shall be used directly following concrete placement as established by the contractor. Concrete shall develop a minimum compressive strength of 3000 psi prior to backfill and compaction operations, and backfill shall be compacted to a minimum moist unit weight of 110 pcf.

⚠ This is a beta release of the new ATC Hazards by Location website. Please [contact us](#) with feedback.

ℹ The ATC Hazards by Location website will not be updated to support ASCE 7-22. [Find out why.](#)

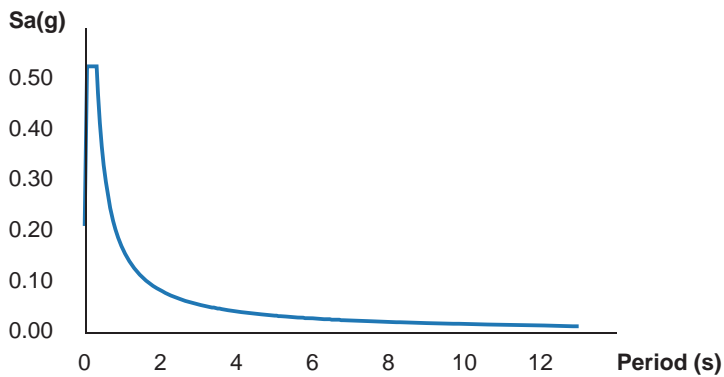
ATC Hazards by Location

Search Information

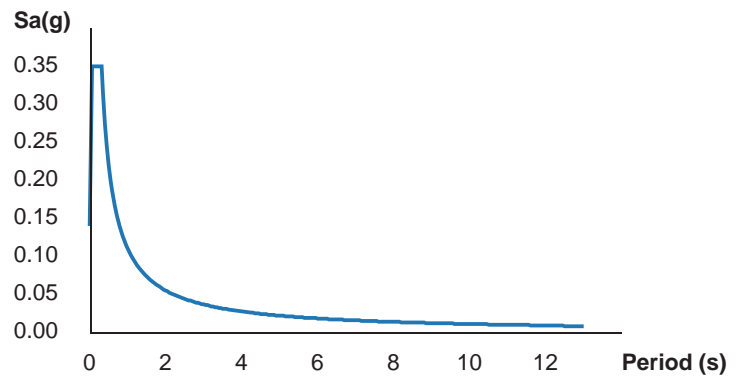
Coordinates: 34.370404, -85.386322
Elevation: 755 ft
Timestamp: 2024-04-23T17:30:35.169Z
Hazard Type: Seismic
Reference Document: ASCE7-16
Risk Category: II
Site Class: C



MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.403	MCE _R ground motion (period=0.2s)
S_1	0.11	MCE _R ground motion (period=1.0s)
S_{MS}	0.525	Site-modified spectral acceleration value
S_{M1}	0.165	Site-modified spectral acceleration value
S_{DS}	0.35	Numeric seismic design value at 0.2s SA
S_{D1}	0.11	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	C	Seismic design category
F_a	1.3	Site amplification factor at 0.2s

F_v	1.5	Site amplification factor at 1.0s
CR_S	0.926	Coefficient of risk (0.2s)
CR_1	0.916	Coefficient of risk (1.0s)
PGA	0.256	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	0.307	Site modified peak ground acceleration
T_L	12	Long-period transition period (s)
SsRT	0.403	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.436	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.11	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.12	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

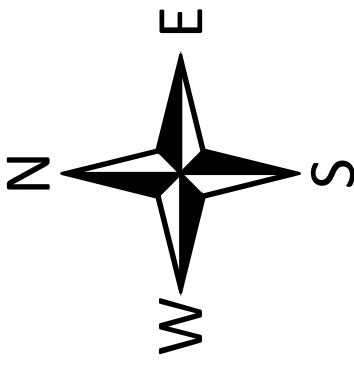
The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Please note that the ATC Hazards by Location website will not be updated to support ASCE 7-22. [Find out why.](#)

Disclaimer

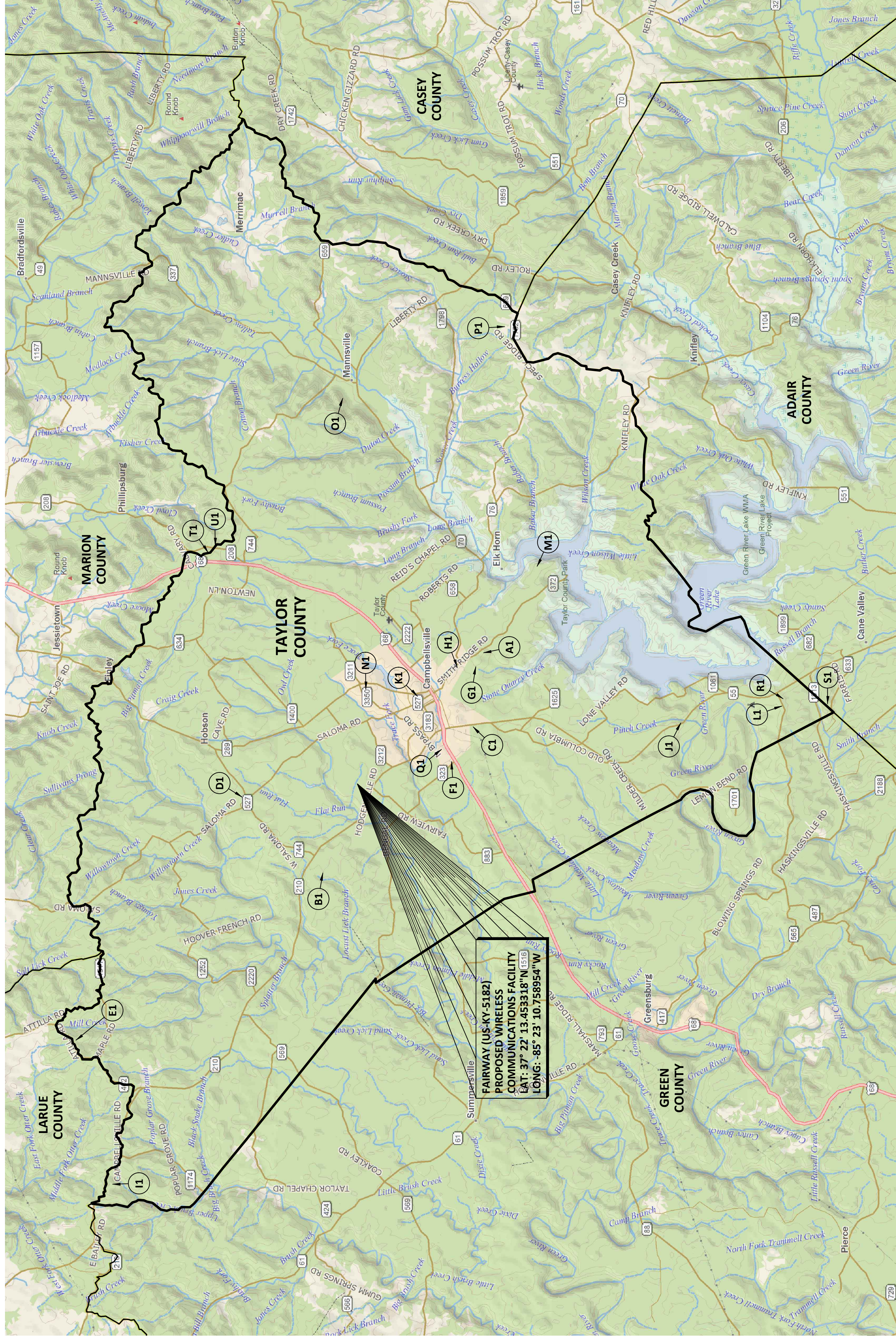
Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

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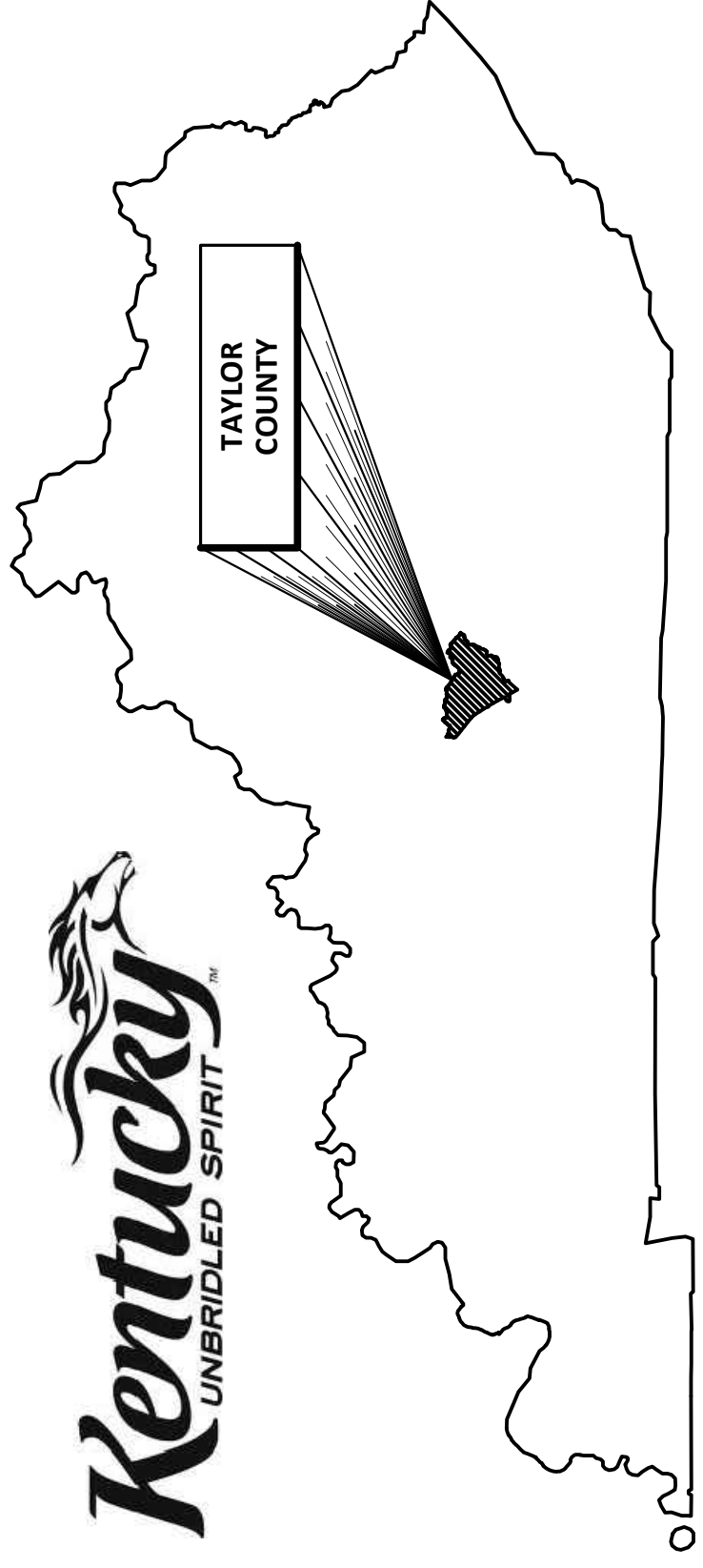


TAYLOR COUNTY, KENTUCKY

VERTICAL BRIDGE SITE NAME: FAIRWAY (US-KY-5182)



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



USGS 7.5 MINUTE QUADRANGLE: GREENSBURG, KY



PREPARED FOR:
750 PARK OF COMMERCE DRIVE
BOCA RATON, FLORIDA 334487
(561) 948-6367

EXISTING TOWER LEGEND

A1	FCC REGISTRATION #: 1042222 GLOBAL TOWER, LLC THROUGH AMERICAN TOWERS, LLC LAT: 37° 19' 24.0\"/>
B1	FCC REGISTRATION #: 1043056 CELCO PARTNERSHIP LAT: 37° 23' 00.2\"/>
C1	FCC REGISTRATION #: 1043442 CITY OF CAMPBELLSVILLE LAT: 37° 19' 38.0\"/>
D1	FCC REGISTRATION #: 1044280 TENNESSEE GAS COMPANY LLC LAT: 37° 24' 49.0\"/>
E1	FCC REGISTRATION #: 1044516 EAST KENTUCKY POWER COOPERATIVE, INC. LAT: 37° 28' 32.2\"/>
F1	FCC REGISTRATION #: 1046182 FIRST CORBIN REALTY, LLC LAT: 37° 20' 07.0\"/>
G1	FCC REGISTRATION #: 1214265 CELCO PARTNERSHIP LAT: 37° 19' 34.2\"/>
H1	FCC REGISTRATION #: 1218250 AMERICAN FAMILY ASSOCIATION LAT: 37° 19' 52.8\"/>
I1	FCC REGISTRATION #: 1227279 CELCO PARTNERSHIP LAT: 37° 27' 43.2\"/>
J1	FCC REGISTRATION #: 1241661 CELCO PARTNERSHIP LAT: 37° 14' 59.0\"/>
K1	FCC REGISTRATION #: 1242907 SBA INFRASTRUCTURES, LLC LAT: 37° 20' 53.0\"/>
L1	FCC REGISTRATION #: 1243210 SBA INFRASTRUCTURES, LLC LAT: 37° 12' 42.6\"/>
M1	FCC REGISTRATION #: 1245531 SBA INFRASTRUCTURES, LLC LAT: 37° 18' 12.2\"/>
N1	FCC REGISTRATION #: 1294366 KENTUCKY UTILITIES COMPANY LAT: 37° 22' 02.2\"/>
O1	FCC REGISTRATION #: 1303111 CELCO PARTNERSHIP LAT: 37° 22' 33.5\"/>
P1	FCC REGISTRATION #: 1306590 CELCO PARTNERSHIP LAT: 37° 18' 15.6\"/>
Q1	FCC REGISTRATION #: 1311283 CELCO PARTNERSHIP LAT: 37° 20' 19.8\"/>
R1	(GRANTED) FCC REGISTRATION #: 1321708 TULLMAN INFRASTRUCTURE, LLC LAT: 37° 12' 40.8\"/>
S1	FCC REGISTRATION #: 1268209 CELCO PARTNERSHIP LAT: 37° 20' 59.2\"/>
T1	FCC REGISTRATION #: 1278437 THOMAS PEAVY LAT: 37° 25' 34.0\"/>
U1	FCC REGISTRATION #: 1044801 COMMONWEALTH OF KENTUCKY dba = KY EMERGENCY WARNING SYSTEM KEWS LAT: 37° 25' 25.0\"/>

REVISIONS

REV	DATE	DESCRIPTION
A	11.29.23	ISSUED FOR REVIEW

SITE INFORMATION:

FAIRWAY
601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

TAX PARCEL NUMBER:
25-005-01

PROPERTY OWNERS:
MARK D. GRAY
1/2 INTEREST
80 CAMELOT DR.
CAMPBELLSVILLE, KY 42718
SOURCE OF TITLE:
DEED BOOK 299, PAGE 544

DANNY HUBER & PAM HUBER
1/2 INTEREST
104 LONDON LANE
CAMPBELLSVILLE, KY 42718
SOURCE OF TITLE:
DEED BOOK 249, PAGE 714

SITE NUMBER:
US-KY-5182

POD NUMBER: 23-158651

DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 9.19.23
PLAT DATE: 11.29.23

SHEET TITLE:

TOWER GRID MAP

SHEET NUMBER: (1 page)

C-1



Archive Search Results Form 7460-1 for ASN 2023-ASO-28600-OE

Overview				
Study (ASN):	2023-ASO-28600-OE			
Prior Study:				
Status:	Determined			
Letters:	Determination			
Supplemental Form 7460-2:	Add 7460-2			
Received Date:	10/02/2023			
Entered Date:	10/02/2023			
Completion Date:	11/28/2023			
Expiration Date:	05/28/2025			
Map:	View Map			
Sponsor Information				
Sponsor:	The Towers, LLC			
Attention Of:	Julie Heffernan			
Address:	7500 Park of Commerce Dr			
Address2:	Suite 200			
City:	Boca Raton			
State:	FL			
Postal Code:	33487			
Country:	US			
Phone:	561-406-4015			
Fax:				
Sponsor's Representative Information				
Representative:	Vertical Bridge			
Attention Of:	Richard Hickey			
Address:	750 Park of Commerce Dr, Suite 200			
Address2:	200			
City:	Boca Raton			
State:	FL			
Postal Code:	33487			
Country:	US			
Phone:	561-406-4015			
Fax:				
Construction Info				
Notice Of:	CONSTR			
Duration:	PERM (Months: 0 Days: 0)			
Work Schedule:				
Date Built:				
Structure Summary				
Structure Type:	Antenna Tower			
Structure Name:	US-KY-5182 Fairway			
FCC Number:				
Structure Details				
Latitude (NAD 83):	37° 22' 13.45" N			
Longitude (NAD 83):	85° 23' 10.76" W			
Horizontal Datum:	NAD 83			
Survey Accuracy:	1A			
Marking/Lighting:	None			
Other Description:				
Current Marking/Lighting:	N/A Proposed Structure			
Current Marking/Lighting Other Description:				
Name:				
City:	Campbellsville			
State:	KY			
Nearest County:	Taylor			
Nearest Airport:	AAS			
Distance to Structure:	22783.22 feet			
On Airport:	No			
Direction to Structure:	281.2°			
Description of Location:	Salem Church Road			
Description of Proposal:	New Cell Tower that passes NCT; Adding C-Band - MB			
Height and Elevation				
	Proposed	DNE	DET	
Site Elevation:	817			
Structure Height:	199	0	199	
Total Height (AMSL):	1016	0	1016	
Frequencies				
Low Freq	High Freq	Unit	ERP	Unit
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W

1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	3280	W

Previous [Back to Search Result](#) Next



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

Aeronautical Study No.
2023-ASO-28600-OE

Issued Date: 11/28/2023

Julie Heffernan
The Towers, LLC
7500 Park of Commerce Dr
Suite 200
Boca Raton, FL 33487

**** 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 US-KY-5182 Fairway
Location: Campbellsville, KY
Latitude: 37-22-13.45N NAD 83
Longitude: 85-23-10.76W
Heights: 817 feet site elevation (SE)
199 feet above ground level (AGL)
1016 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 05/28/2025 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. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ASO-28600-OE.

Signature Control No: 600710893-605671298

(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.

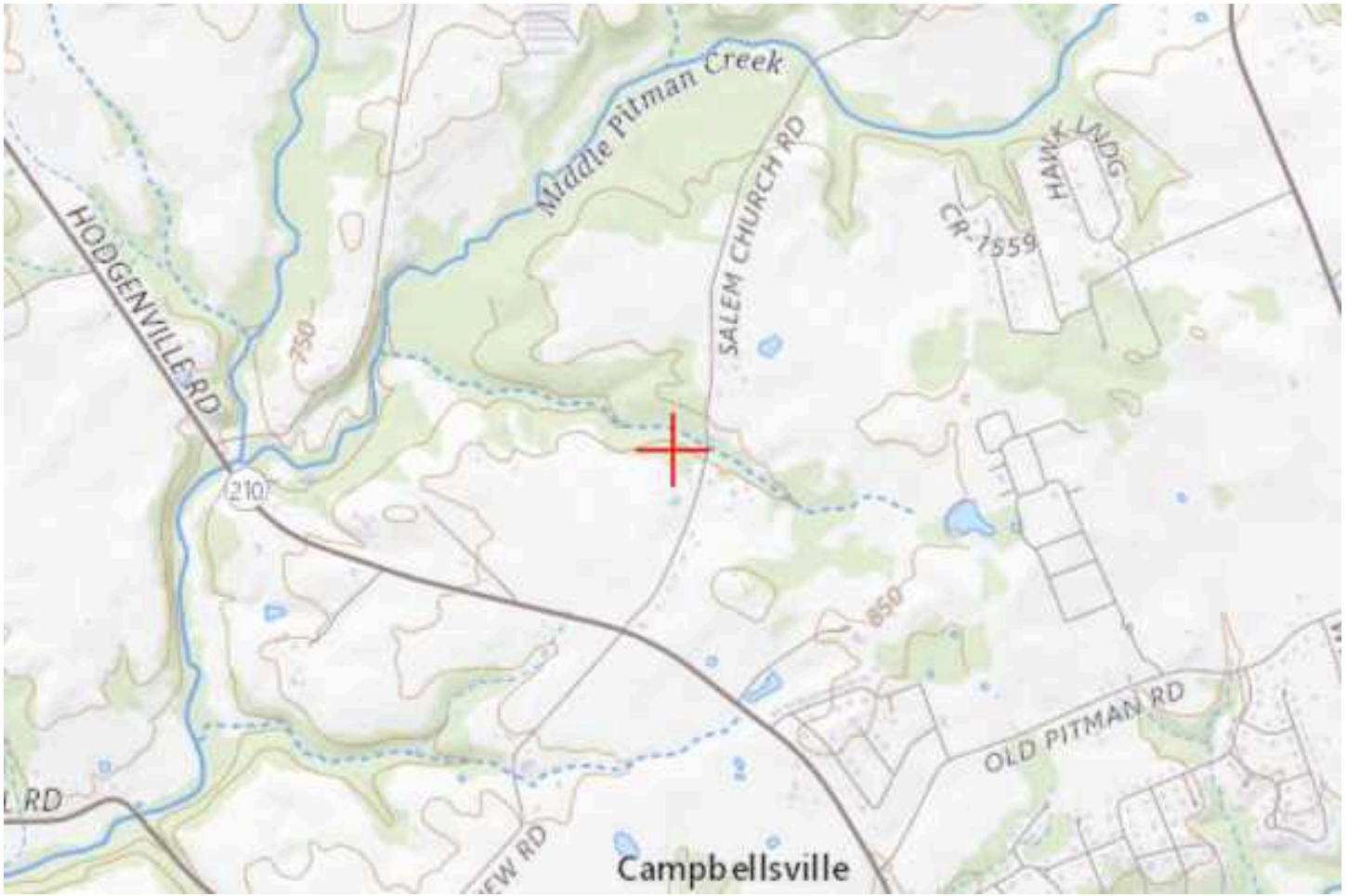
Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

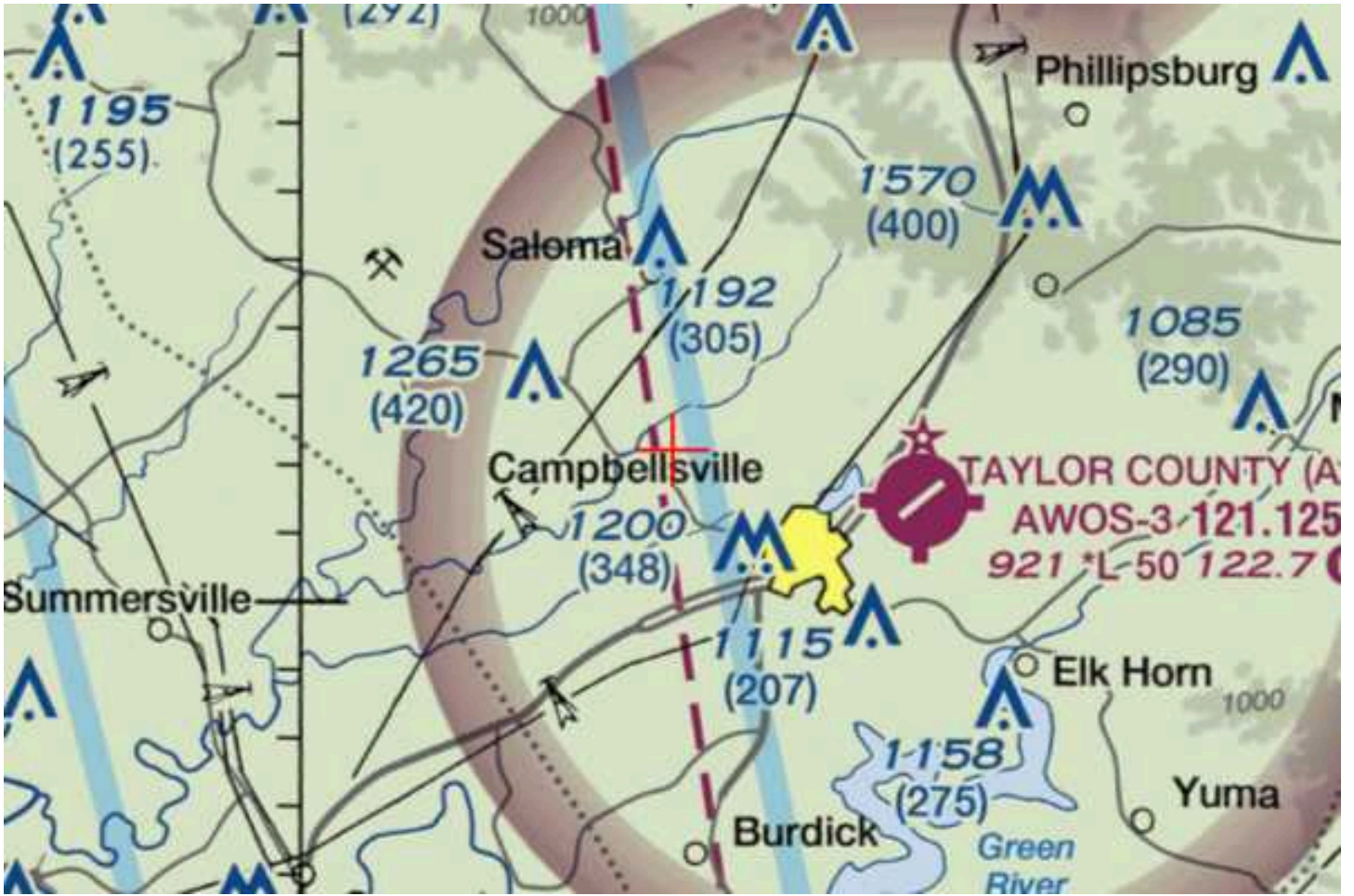
Case Description for ASN 2023-ASO-28600-OE

New Cell Tower that passes NCT; Adding C-Band - MB

Frequency Data for ASN 2023-ASO-28600-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	3280	W





APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

- (1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use airport and military airport with at least one (1) runway 3,200 feet or more in length; or
- (2) fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use airport and military airport as depicted on airport zoning maps approved by the Kentucky Airport Zoning Commission.

Section 4. The Commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above the ground.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the Commission has Jurisdiction shall apply for a permit from the Commission in accordance with 602 KAR 50:090.

INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Dept. of Aviation, ATTN: Airport Zoning Commission, 90 Airport Drive, Frankfort KY 40601. For questions, telephone 502-782-4043.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:

Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)

Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)

Appendix C. Copies of Federal Aviation Administration Applications (*FFA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.

Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.

Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

PENALTIES

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



KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
Rev. 06/2020
Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) The Towers, LLC		PHONE 561-406-4015	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 750 Park of Commerce Dr, Suite 200		CITY Boca Raton		STATE FL	ZIP 33487
APPLICANT'S REPRESENTATIVE (name) Robert Rodriguez		PHONE 561-596-9780	FAX		
ADDRESS (street) 750 Park of Commerce Dr, Suite 200		CITY Boca Raton		STATE FL	ZIP 33487
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 37°22'13.45"		LONGITUDE 85°23'10.75"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY Campbellsville, Taylor County		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Taylor County			
SITE ELEVATION (AMSL, feet) 817		TOTAL STRUCTURE HEIGHT (AGL, feet) 190		CURRENT (FAA aeronautical study #) 2023-ASO-28600-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1007				PREVIOUS (FAA aeronautical study #) N/A	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 4.3 miles				PREVIOUS (KY aeronautical study #) N/A	
DIRECTION (from nearest Kentucky public use or Military airport to structure) W					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) 37 22 13.45, -85 23 10.75 - Please find attached. Site Address TBD					
DESCRIPTION OF PROPOSAL 180' Monopole with a 10' lightning rod for cellular communications.					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes, when?					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME Robert Rodriguez	TITLE Project Manager	SIGNATURE 		DATE 1/16/2024	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved		SIGNATURE		DATE	
<input type="checkbox"/> Disapproved					

Email from KY Airport Zoning Commission indicating not in the KAZC Jurisdiction

RE: Filing for Antenna Tower in Campbellsville - Vertical Bridge - US-KY-5182



Airport Zoning Commission <AirportZoning@ky.gov>
To: Robert Rodriguez



US-KY-5182_KAZC App_011624.pdf
.pdf File



2023-ASO-28600-OE.pdf
.pdf File

This is an external email. Do not click links, open attachments, or if asked provide your VB credentials unless you recognize the source of this email and know the content is safe. Please contact the VB IT Help Desk with any doubts.

Robert,

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: 37°22'13.45"N, 85°23'10.75"W

Structure's Height :199 ft.

User-submitted ground elevation is 817 ft.

DEM's ground elevation is 816.94 ft(KYAPED 5-FT DEM).

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](#)

From: Robert Rodriguez <Robert.Rodriguez@verticalbridge.com>
Sent: Tuesday, January 16, 2024 12:05 PM
To: Airport Zoning Commission <AirportZoning@ky.gov>
Subject: Filing for Antenna Tower in Campbellsville - Vertical Bridge - US-KY-5182

CAUTION PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.

Hello,

Please find attached application to construct a new antenna tower in Campbellsville. Let me know if you have any questions or comments.

Thanks!



March 27, 2024

Mr. Robert Rodriguez
Vertical Bridge
750 Park of Commerce BLVD Suite 200
Boca Raton, FL 33487

Re: Geotechnical Report – **PROPOSED MONOPOLE TOWER**
Site Name: **Fairway**
Site Address: 601 Salem Church Rd, Campbellsville, Taylor County, Kentucky
Coordinates: N34.370404° W85.386322°
POD Project No. 23-158653

Dear Mr. Robert Rodriguez:

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

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

Cordially,

Mark Patterson, P.E.
Geotechnical Engineer



Copies submitted: (3) Mr. Robert Rodriguez

LETTER OF TRANSMITTAL

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APPENDIX

BORING LOCATION PLAN
BORING LOG
SOIL SAMPLE CLASSIFICATION

Geotechnical Report
PROPOSED MONOPOLE TOWER

Site Name: **Fairway**
601 Salem Church Rd, Campbellsville, Taylor County, Kentucky
N34.370404° W85.386322°

1. PURPOSE AND SCOPE

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

2. PROJECT CHARACTERISTICS

Our client is proposing to construct a tower and either an equipment shelter, slab or platform at N34.370404° W85.386322°, 601 Salem Church Rd, Campbellsville, Taylor County, Kentucky. The site is located on a wooded hillside behind a garage in the northwest area of Campbellsville. The proposed lease area will be 10,000 square feet and will be accessed along a new access road running west from Salem Church Rd to the proposed lease area. The elevation at the proposed tower location is about EL 817 and there is about 7 feet change in elevation across the proposed lease area. The development will also include a small equipment shelter near the base of the tower. The proposed tower location is shown on the Boring Location Plan in the Appendix.

3. SUBSURFACE CONDITIONS

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

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Upper Mississippian age Salam and Warsaw Limestone. These formations are mainly limestone with shale, siltstone, and sandstone. It is prone to karst activity. No sinkholes were mapped close to the site. However, there are several sinkholes mapped within about one mile of the site. Most of southcentral Kentucky area is highly karst and it is an inherited risk in building in the area.

The borings encountered a thin veneer of topsoil at the existing ground surface. Below the topsoil, the borings encountered silty clay (CL-CH) of medium to high plasticity. The SPT N-values in the clayey soil were between 13 to 29

blows per foot (bpf) generally indicating a stiff to very stiff consistency. Higher SPT N-values in the deeper soil may have been inflated by the significant amount of chert fragments in the soil. The borings encountered auger refusal in the clayey soil between 6.9 and 13.9 feet. Auger refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

The refusal material was cored in Boring B-1 from 6.9 to 26.9 feet below the ground surface. From 6.9 feet to 11.9 sandstone that was moderately hard, weathered, brown and vuggy was encountered. At about 11.9, limestone that was moderately hard, moderately weathered and gray was encountered. At about 14 feet, the augers dropped about 23 inches which would indicate a very soft mud seam or a void. Sandstone was again encountered at about 16.9 feet. At about 18.9 feet, limestone that was continuous, hard, slightly weathered, and light gray with fossils was encountered. The recoveries of the rock cores were 30, 46, 62 and 100 percent and the RQD values were 13, 30, 40 and 100 percent. These values generally represent poor quality rock that from a foundation support viewpoint became excellent at about 18 feet.

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

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

4. FOUNDATION DESIGN RECOMMENDATIONS

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

We recommend that the geotechnical engineer be retained to review the near-final project plans and specifications, pertaining to the geotechnical aspects of the project, prior to bidding and construction. We recommend this review to check that our assumptions and evaluations are appropriate based on the current

project information provided to us, and to check that our foundation and earthwork recommendations were properly interpreted and implemented.

4.1. Proposed Tower

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

4.1.1. Drilled Piers

The following table summarizes the recommended values for use in analyzing lateral and frictional resistance for the various strata encountered at the test boring. It is important to note that these values are estimated based on the standard penetration test results and soil types and were not directly measured. The all values provided are ultimate values and appropriate factors of safety should be used in conjunction with these values. If the piers will bear deeper than 26 feet, a deeper boring should be drilled to determine the nature of the deeper material.

Depth Below Ground Surface, feet	0 – 2	2 - 8	8 - 18	18 - 26
Ultimate Bearing Pressure (psf)		13,800	27,600	110,000
C	500	2,500	5,000	20,000
Undrained Shear Strength, psf				
ϕ	0	0	0	0
Angle of Internal Friction degrees				
Total Unit Weight, pcf	110	120	135	135
Soil Modulus Parameter	30	500	1000	2000
k, pci				
Passive Soil Pressure, psf/one foot of depth		1,675 + 40(D-2)	3,350 + 45(D-8)	13,400 + 45(D-10)
Side Friction, psf		500	750	2000

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

It is important that the drilled piers be installed by an experienced, competent drilled pier contractor who will be responsible for properly installing the piers in accordance with industry standards and generally accepted methods,

without causing deterioration of the subgrade. The recommendations contained herein relate only to the soil-pier interaction and do not account for the structural design of the piers.

4.1.2. Mat Foundation

A common mat foundation may be used for the tower. The foundation can be designed using a net ultimate bearing pressure of 8,000 pounds per square foot and should bear at least 4 feet in depth. An appropriate factor of safety shall be applied. A friction value of 0.30 may be used between the concrete and the clayey soil. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

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

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the natural clay and designed for a net ultimate soil pressure of 4,000 pounds per square foot. The piers should bear at a depth of at least 30 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

4.3. Equipment Slab

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k_{30}) of 110 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the natural clay soil and designed for a net ultimate soil pressure of 4,000 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil they should bear at a depth of at least 30 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

The floor slab for the new equipment building can be supported on firm natural soils or on new compacted structural fill. Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k_{30}) of 110 lbs/cu.in. can be used for design of the floor slabs.

4.5. Drainage and Groundwater Considerations

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

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

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

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

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

- ✦ All piers must be poured the same day drilling is completed so that any shale is not allowed to swell. Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.

- ✦ Make provisions for ground water removal from the drilled shaft excavation. While the borings were dry prior to rock coring and significant seepage is not anticipated, the drilled pier contractor should have pumps on hand to remove water in the event seepage into the drilled pier is encountered.
- ✦ Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.
- ✦ Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- ✦ Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- ✦ The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.
- ✦ Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

5.2 Fill Compaction

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

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

5.3 Construction Dewatering

If groundwater is encountered in the shallow foundations, it should be minor and can be handled by conventional dewatering methods such as pumping from sumps.

If groundwater is encountered in the drilled pier excavations, it may be more difficult since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the tremie method. If groundwater sits on the bottom of the foundation for longer than an hour, the bottom should be cleaned again before the pier is poured.

6 FIELD INVESTIGATION

Three soil test boring were drilled near the base of the existing tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings encountered auger refusal from about 6.9 to 13.9 feet. A rock core of the refusal material was taken in Boring B-1 from 6.9 to 26.9 feet. The split spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

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

7 WARRANTY AND LIMITATIONS OF STUDY

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

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

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

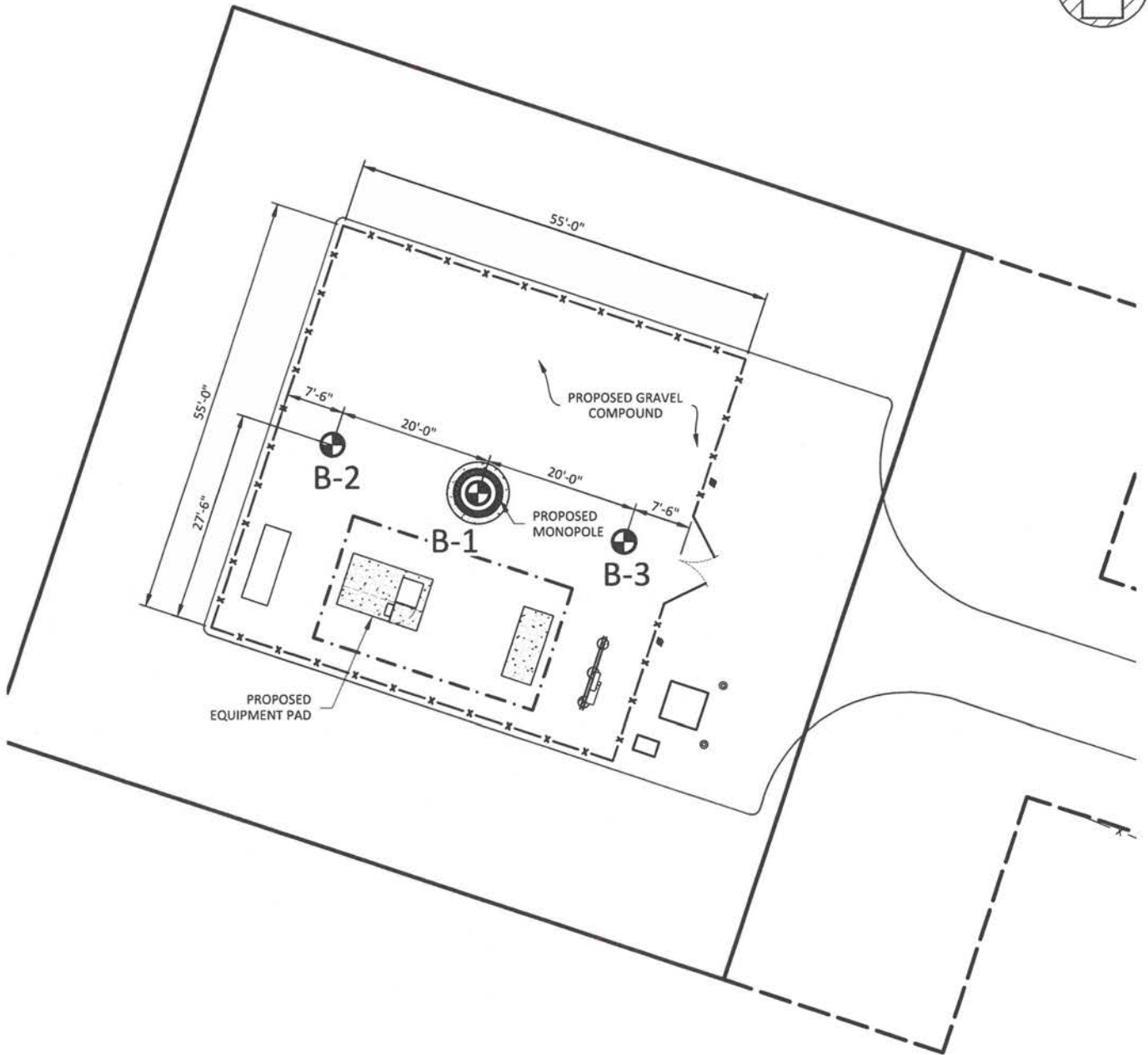
discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

APPENDIX

BORING LOCATION PLAN

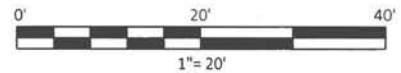
BORING LOG

SOIL SAMPLE CLASSIFICATION



LEGEND

B-1 BORING LOCATION



<p>SHEET TITLE:</p> <h1>BORING LOCATION PLAN</h1>	<p>LATITUDE: 37° 22' 13.453318" N</p> <p>LONGITUDE: 85° 23' 10.758954" W</p>	<p>SITE INFORMATION:</p> <p>FAIRWAY</p>	<p>11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252</p>
	<p>PARCEL #: 25-005-01 DEED BOOK 299, PAGE 544</p>	<p>601 SALEM CHURCH ROAD CAMPBELLSVILLE, KY 42718 TAYLOR COUNTY</p>	
<p>SHEET NUMBER:</p> <h1>1</h1>	<p>POD NUMBER: 23-158653</p> <p>DRAWN BY: SM</p> <p>CHECKED BY: MEP</p> <p>DATE: 3.25.2024</p>	<p>OWNER INFORMATION:</p> <p>MARK & MARY GRAY (1/2 INTEREST) 80 CAMELOT DR. CAMPBELLSVILLE, KY 42718</p>	



Boring Log

Boring: B-1

Page 1 of 1

Project: Fairway **City, State:** Campbellsville, KY

Method: H.S.A. **Boring Date:** 15-Mar-24 **Location:** Proposed Tower

Inside Diameter: 3 3/4" **Drill Rig Type:** CME 45 Track **Hammer Type:** Auto

Groundwater: DRY **Weather:**

Driller: Cornerstone Geotech Serv **Note:** Topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.0	6.9	SILTY CLAY (CL-CH) stiff, reddish brown with some chert fragments	1.5 - 3	SS	4, 4, 9		13					-
	3.5	- very stiff, orange brown with limestone fragments	3.5-5	SS	10, 12, 13		25					6.0
			6-6.9	SS	6, 50,		50					3.5
6.9	11.9	SANNSTONE - moderately hard, weathered, brown and vuggy	6.9-11.9	RC			18	13%				
11.9	16.9	LIMESTONE - moderately hard, moderately weathered, gray	11.9-16.9	RC			28	30%				
	14.0	- augers dropped about 23 inches at about 14 feet										
16.9	18.9	SANNSTONE - moderately hard, weathered, brown and vuggy	16.9-21.1	RC			37	40%				
18.9	26.9	LIMESTONE - continues, hard, slightly weathered, light gray with fossils	21.11-26.1	RC			60	100%				
		Boring Terminated at 26.9 feet										



Boring Log

Boring: B-2

Page 1 of 1

Project: Fairway

City, State: Campbellsville, KY

Method: H.S.A. **Boring Date:** 15-Mar-24 **Location:** Proposed Tower

Inside Diameter: 3 3/4" **Drill Rig Type:** CME 45 Track **Hammer Type:** Auto

Groundwater: DRY **Weather:**

Driller: Cornerstone Geotech Servi **Note:** Topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.0	13.9	SILTY CLAY (CL-CH) very stiff, reddish brown with some chert fragments 6.0 - slightly moist 8.5 - moist, tan	1.5 - 3	SS	6, 10, 9		19,					-
			3.5-5	SS	9, 9, 11		20,					4.4
			6 - 7.5	SS	7, 9, 13		22,					3.2
			8.5-10	SS	9, 9, 11		20,					1.2
			13.5-13.9	SS		50,		50,				
		Auger Refusal at 13.9 feet										



Boring Log

Boring: B-3

Page 1 of 1

Project: Fairway

City, State Campbellsville, KY

Method: H.S.A. **Boring Date:** 15-Mar-24 **Location:** Proposed Tower

Inside Diameter: 3 3/4" **Drill Rig Type:** CME 45 Track **Hammer Type:** Auto

Groundwater: DRY **Weather:**

Driller: Cornerstone Geotech Serv; **Note:** Topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.0	9.9	SILTY CLAY (CL-CH) stiff to very stiff, reddish brown with some chert fragments - tan	1.5 - 3	SS	9, 5, 8		13,					3.6
			3.5-5	SS	14, 16, 50		66,					-
			6 - 7.5	SS	16, 14, 15		29,					-
			8.5-9.9	SS	7, 6, 50		56,					3.2
		Auger Refusal at 9.9 feet										

SOIL SAMPLE CLASSIFICATION

FINE AND COARSE GRAINED SOIL INFORMATION

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

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

ROCK PROPERTIES

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

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

SYMBOLS

KEY TO MATERIAL TYPES

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

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

SOIL PROPERTY SYMBOLS

N:	Standard Penetration, BPF
M:	Moisture Content, %
LL:	Liquid Limit, %
PI:	Plasticity Index, %
Qp:	Pocket Penetrometer Value, TSF
Qu:	Unconfined Compressive Strength Estimated Qu, TSF
γ_d :	Dry Unit Weight, PCF
F:	Fines Content

SAMPLING SYMBOLS

SS	Split Spoon Sample
	Relatively Undisturbed Sample
	Rock Core Sample

DIRECTIONS TO THE SITE:

203 N COURT ST, CAMPBELLSVILLE, KY 42718: HEAD SOUTHWEST ON E MAIN ST TOWARD N CENTRAL AVE (180 FT). TURN RIGHT ONTO N CENTRAL AVE (394 FT). TURN LEFT AT THE 2ND CROSS STREET ONTO E BROADWAY (0.4 MI). E BROADWAY TURNS SLIGHTLY RIGHT AND BECOMES US-68 W/GREENSBURG RD (0.5 MI). TURN RIGHT ONTO KY-210 W (2.2 MI). CONTINUE STRAIGHT TO STAY ON KY-210 W (0.3 MI). TURN RIGHT ONTO SALEM CHURCH RD (0.4 MI). SITE WILL BE LOCATED ON LEFT (WEST) SIDE OF ROAD.

Prepared by Power of Design, Telephone 502-437-5252

Landlord:

Mark D. Gray, unmarried, an undivided 1/2 interest and Danny Huber and Pam Huber, husband and wife, an undivided 1/2 interest
80 Camelot Place
Campbellsville, KY 42718

Tenant:

The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, Florida 33487
Site #: US-KY-5182
Site Name: Fairway

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT (this “**Agreement**”) is made this 27th day of July, 2023 (the “**Effective Date**”) by and between **Mark D. Gray**, unmarried, an undivided 1/2 interest and **Danny Huber and Pam Huber**, husband and wife, an undivided 1/2 interest, (“**Landlord**”), whose address is 80 Camelot Place, Campbellsville, KY 42718, and **The Towers, LLC**, a Delaware limited liability company (“**Tenant**”), whose address is 750 Park of Commerce Drive, Suite 200, Boca Raton, Florida 33487.

WHEREAS, Landlord owns certain real property located in the County of Taylor, in the State or Commonwealth of Kentucky, that is more particularly described and/or depicted in **Exhibit 1** attached hereto (the “**Property**”); and,

WHEREAS, Tenant desires to lease from Landlord a certain portion of the Property measuring approximately 100' x 100' (approximately 10,000 square feet) and to obtain easements for landscape buffer, utilities and access (collectively, the “**Premises**”), which Premises is more particularly described and/or depicted in **Exhibit 2** attached hereto, for the placement of Communications Facilities (defined below).

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree:

1. OPTION TO LEASE.

(a) As of the Effective Date, Landlord grants to Tenant the exclusive option to lease the Premises (the “**Option**”) during the Option Period (defined below). At any time during the Option Period and Term (defined below), Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, and other geological or engineering tests or studies of the Property (collectively, the “**Tests**”), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant’s sole discretion for its use of the Premises including, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, construction permits and any other permits and approvals deemed necessary by Tenant (collectively, the “**Government Approvals**”), initiate the ordering and/or scheduling of necessary utilities, obtain a title report with respect to the Property, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant’s sole discretion to determine the physical condition of the Property, the environmental history of the Property, and the feasibility or suitability of the Property for Tenant’s permitted use under this Agreement, all at Tenant’s expense. Tenant shall be authorized to apply for the Government Approvals on behalf of Landlord and Landlord agrees to reasonably cooperate with such applications. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant’s Tests. Tenant will restore the Property to its condition as it existed prior to conducting any Tests, reasonable wear and tear and

casualty not caused by Tenant excepted. In addition, Tenant shall indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or claims arising directly out of Tenant's Tests.

(b) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of One Thousand Seven Hundred and Fifty Dollars (\$1,750.00) within thirty (30) days after the full execution of this Agreement. The Option Period will be for an term of two (2) years from the Effective Date (the "**Option Period**")

(c) Tenant may exercise the Option at any time during the Option Period by delivery of written notice to Landlord (the "**Notice of Exercise of Option**"). The Notice of Exercise of Option shall set forth the commencement date (the "**Commencement Date**") of the Initial Term (defined below). If Tenant does not provide a Notice of Exercise of Option during the Option Period, this Agreement will terminate, and the parties will have no further liability to each other.

(d) During the Option Period or the Term, Landlord shall not take any action to change the zoning status or land use of the Property which would diminish, impair, or adversely affect the use of the Premises by Tenant for its permitted uses hereunder.

2. **TERM.**

(a) Effective as of the Commencement Date, Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement for an initial term of five (5) years (the "**Initial Term**").

(b) Tenant shall have the option to extend the Initial Term for nine (9) successive terms of five (5) years each (each a "**Renewal Term**"). Each Renewal Term shall commence automatically, unless Tenant delivers notice to Landlord, not less than thirty (30) days prior to the end of the then-current Initial Term or Renewal Term, as applicable, of Tenant's intent not to renew. For purposes of this Agreement, "**Term**" shall mean the Initial Term and any applicable Renewal Term(s).

3. **RENT.**

(a) Beginning on the first (1st) day of the third (3rd) month after the Commencement Date ("**Rent Commencement Date**"), Tenant shall pay to Landlord a monthly rent payment of Eight Hundred and Fifty Dollars (\$850.00) ("**Rent**") at the address set forth in Section 29 below on or before the fifth (5th) day of each calendar month in advance. The initial payment of Rent will be forwarded by Tenant to Landlord within thirty (30) days after the Rent Commencement Date.

(b) The Rent shall increase 0.95% annually on each anniversary of the Rent Commencement Date.

4. **TAXES.** Tenant shall pay any personal property taxes assessed on, or any portion of such taxes attributable to, the Communications Facilities located on the Premises. Landlord shall pay when due all real property taxes and all other fees and assessments attributable to the Property and the Premises. Tenant shall pay as additional rent any increase in real property taxes levied against the Premises, which are directly attributable to Tenant's use of the Premises (but not, however, taxes attributable to periods prior to the Commencement Date such as roll-back or greenbelt assessments) if Landlord furnishes proof of such increase to Tenant (such increase, the "**Landlord Tax Reimbursement**"). In the event that Landlord fails to pay when due any taxes affecting the Premises or any easement relating to the Premises, Tenant shall have the right, but not the obligation, to pay such taxes and any applicable interest, penalties or similar charges, and deduct the full amount of the taxes and such charges paid by Tenant on Landlord's behalf from future installments of Rent. Notwithstanding the foregoing, Tenant shall not have the obligation to pay any tax, assessment, or charge that Tenant is disputing in good faith in appropriate proceedings prior to a final

determination that such tax is properly assessed, provided that no lien attaches to the Property. In addition, Tenant shall not have the obligation to pay or reimburse Landlord for the Landlord Tax Reimbursement if Landlord has not provided proof of such amount and demand therefor within one (1) year of the date such amount is due and payable by Landlord.

5. **USE.** The Premises are being leased for the purpose of erecting, installing, operating, maintaining, repairing and replacing radio or communications towers, transmitting and receiving equipment, antennas, dishes, satellite dishes, mounting structures, equipment shelters and buildings, solar energy conversion and electrical power generation system, fencing and other supporting structures and related equipment (collectively, the “**Communications Facilities**”), and to alter, supplement and/or modify same. Tenant may, subject to the foregoing, make any improvements, alterations or modifications to the Premises as are deemed appropriate by Tenant for the permitted use herein. Tenant shall have the right to clear the Premises of any trees, vegetation, or undergrowth which interferes with the use of the Premises for the intended purposes by Tenant and/or its subtenants and licensees, as applicable. Tenant shall have the exclusive right to install and operate the Communications Facilities upon the Premises.

6. **ACCESS AND UTILITIES.** During the Term, Tenant and its guests, agents, employees, customers, invitees, subtenants, licensees and assigns shall have the unrestricted, exclusive right to use, and shall have free and unfettered access to, the Premises seven (7) days a week, twenty-four (24) hours a day. Landlord for itself, its successors and assigns, hereby grants and conveys unto Tenant, its customers, employees, agents, invitees, subtenants, licensees, successors and assigns a non-exclusive easement throughout the Term to a public right of way (a) for ingress and egress, and (b) for the construction, installation, operation, maintenance, repair and replacement of overhead and underground electric and other utility facilities (including fiber, backhaul, wires, poles, cables, conduits and appurtenant equipment), with the right to reconstruct, improve, add to, enlarge, change and remove such facilities, over, across and through any easement for the benefit of and access to the Premises, subject to the terms and conditions herein set forth. Landlord agrees to coordinate, cooperate and assist Tenant with obtaining the required access and utility easements to the Premises from a public right of way up to and including negotiating and obtaining such access and utility rights from any applicable neighbor parcel. If there are utilities already existing on the Premises which serve the Premises, Tenant may utilize such utilities and services. The rights granted to Tenant herein shall also include the right to partially assign its rights hereunder to any public or private utility company or authority to facilitate the uses contemplated herein, and all other rights and privileges reasonably necessary for Tenant’s safe and efficient use and enjoyment of the easements for the purposes described above. Upon Tenant’s request, Landlord shall execute and deliver to Tenant requisite recordable documents evidencing the easements contemplated hereunder within fifteen (15) days of Tenant’s request, and Landlord shall obtain the consent and joinder of Landlord’s mortgagee to any such grant, if applicable.

7. **EQUIPMENT, FIXTURES AND REMOVAL.** The Communications Facilities shall at all times be the personal property of Tenant and/or its subtenants and licensees, as applicable. Tenant or its customers, subtenants or licensees shall have the right to erect, install, maintain, repair, replace and operate on the Premises such equipment, structures, fixtures, signs, and personal property as Tenant, its customers, subtenants or licensees may deem necessary or appropriate, and such property, including the equipment, structures, fixtures, signs, and personal property currently on the Premises, shall not be deemed to be part of the Premises, but shall remain the property of Tenant or its customers, subtenants or licensees. Within ninety (90) days after the expiration or earlier termination of this Agreement (the “**Removal Period**”), Tenant, customers, subtenants or licensees shall remove its improvements and personal property and restore the Premises to grade and perform all obligations under this Agreement during the Removal Period,

including, without limitation, the payment of Rent at the rate in effect upon the expiration or termination of this Agreement.

8. ASSIGNMENT AND SUBLEASE. Tenant may transfer or assign this Agreement to Tenant's Lender (defined below), principal, affiliates, subsidiaries, subsidiaries of its principal or to any entity which acquires all of or substantially all of Tenant's assets or ownership interests by reasons of merger, acquisition or other business reorganization without Landlord's consent (a "**Permitted Assignment**"). As to transfers or assignments which do not constitute a Permitted Assignment, Tenant is required to obtain Landlord's written consent prior to effecting such transfer or assignment, which consent shall not be unreasonably withheld, conditioned or delayed. Upon such assignment, including a Permitted Assignment, Tenant will be relieved and released of all obligations and liabilities hereunder. Tenant shall have the exclusive right to sublease or grant licenses without Landlord's consent to use all or part of the Premises and/or the Communications Facilities, but no such sublease or license shall relieve or release Tenant from its obligations under this Agreement. Landlord may assign this Agreement only in its entirety and only to any person or entity who or which acquires fee title to the Property, subject to Section 15. Landlord may subdivide the Property without Tenant's prior written consent provided the resulting parcels from such subdivision are required to afford Tenant the protections set forth in Section 14 hereof.

9. COVENANTS, WARRANTIES AND REPRESENTATIONS.

(a) Landlord warrants and represents that it is the owner in fee simple of the Property, free and clear of all liens and encumbrances except as to those which may have been disclosed to Tenant in writing prior to the execution hereof, and that it alone has full right to lease the Premises for the Term.

(b) Landlord shall pay promptly, when due, any other amounts or sums due and owing with respect to its ownership and operation of the Property, including, without limitation, judgments, taxes, liens, mortgage payments and other similar encumbrances. If Landlord fails to make any payments required under this Agreement, or breaches any other obligation or covenant under this Agreement, Tenant may (without obligation), after providing ten (10) days written notice to Landlord, make such payment or perform such obligation on behalf of Landlord and offset such payment (including any reasonable attorneys' fees incurred in connection with Tenant performing such obligation) against payments of Rent.

(c) Landlord shall not do or knowingly permit anything that will interfere with or negate any special use permit or approval pertaining to the Premises or cause Tenant's use of the Premises to be in nonconformance with applicable local, state, or federal laws. Landlord shall cooperate with Tenant in any effort by Tenant to obtain certificates, permits, licenses and other approvals that may be required by any governmental authorities. Landlord agrees to execute any necessary applications, consents or other documents as may be reasonably necessary for Tenant to apply for and obtain the Government Approvals required to use and maintain the Premises and the Communications Facilities.

(d) To the best of Landlord's knowledge, Landlord has complied and shall comply with all laws with respect to the Property. No asbestos-containing thermal insulation or products containing PCB, formaldehyde, chlordan, or heptachlor or other hazardous materials have been placed on or in the Property by Landlord or, to the knowledge of Landlord, by any prior owner or user of the Property. There has been no release of or contamination by hazardous materials on the Property by Landlord, or to the knowledge of Landlord, any prior owner or user of the Property.

(e) Tenant shall have access to all utilities required for the operation of Tenant's improvements on the Premises that are existing on the Property.

(f) Landlord warrants and represents that there currently exist no licenses, sublicenses, or other agreements, written or oral, granting to any party or parties the right of use or occupancy of any portion of the Property; there are no outstanding options or rights of first refusal to purchase the Property or any portion thereof or interest therein, or any equity or interest in Landlord if Landlord is an entity; and there are no parties (other than Landlord) in possession of the Property except as to those that may have been disclosed to Tenant in writing prior to the execution hereof.

10. HOLD OVER TENANCY. Should Tenant or any assignee, sublessee or licensee of Tenant hold over the Premises or any part thereof after the expiration of this Agreement, such holdover shall constitute and be construed as a tenancy from month-to-month only, but otherwise upon the same terms and conditions.

11. INDEMNITIES. Each party agrees to indemnify, defend and hold harmless the other party, its parent company or other affiliates, successors, assigns, officers, directors, shareholders, managers, members, agents and employees (collectively, "**Indemnified Persons**") from and against all claims, actions, judgments, damages, liabilities, losses, expenses and costs (including, without limitation, reasonable attorneys' fees and court costs) (collectively, "**Losses**") caused by or arising out of (a) such party's breach of any of its obligations, covenants, representations or warranties contained herein, or (b) such party's acts or omissions with regard to this Agreement; provided, however, in no event shall a party indemnify the other party for any such Losses to the extent arising from the gross negligence or willful misconduct of the party seeking indemnification. However, in the event of an Indemnified Person's contributory negligence or other fault, the Indemnified Person shall not be indemnified hereunder to the extent that the Indemnified Person's negligence or other fault caused such Losses. Tenant will indemnify Landlord from and against any mechanic's liens or liens of contractors and subcontractors engaged by or through Tenant.

12. WAIVERS.

(a) Landlord hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Communications Facilities or any portion thereof, regardless of whether or not such is deemed real or personal property under applicable laws. Landlord will not assert any claim whatsoever against Tenant for loss of anticipatory profits or any other indirect, special, incidental or consequential damages incurred by Landlord as a result of the construction, maintenance, operation or use of the Premises by Tenant.

(b) EACH PARTY HERETO WAIVES ANY AND ALL CLAIMS AGAINST THE OTHER FOR ANY LOSS, COST, DAMAGE, EXPENSE, INJURY OR OTHER LIABILITY WHICH IS IN THE NATURE OF INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES WHICH ARE SUFFERED OR INCURRED AS THE RESULT OF, ARISE OUT OF, OR ARE IN ANY WAY CONNECTED TO THE PERFORMANCE OF THE OBLIGATIONS UNDER THIS AGREEMENT.

13. INSURANCE. Tenant shall insure against property damage and bodily injury arising by reason of occurrences on or about the Premises in the amount of not less than \$1,000,000. The insurance coverage provided for herein may be maintained pursuant to master policies of insurance covering other communications facilities of Tenant and its corporate affiliates. All insurance policies required to be maintained by Tenant hereunder shall be with responsible insurance companies, authorized to do business in the State or Commonwealth where the Premises are located if required by law, and shall provide for cancellation only upon ten (10) days' prior written notice to Landlord. Tenant shall evidence such insurance coverage by delivering to Landlord, if requested, a copy of a certificate of insurance of such policies issued by the insurance companies underwriting such risks.

14. INTERFERENCE. During the Option Period and the Term, Landlord, its successors and assigns, will not grant any ground lease, license, or easement with respect to the Property (outside of the Premises)

and any property adjacent or contiguous to the Property or in the immediate vicinity of the Property that is fee owned by Landlord: (a) for any of the uses contemplated in Section 5 herein; or (b) if such lease, license, or easement would detrimentally impact the Communications Facilities or Tenant's economic opportunities at the Premises, or the use thereof. Landlord shall not cause or permit the construction of communications or broadcast towers or structures, fiber optic backhaul facilities, or satellite facilities on the Property or on any other property of Landlord adjacent or contiguous to or in the immediate vicinity of the Property, except for the Communications Facilities constructed by Tenant. Landlord and Tenant intend by this Agreement for Tenant (and persons deriving rights by, through, or under Tenant) to be the sole parties to market, use, or sublease any portion of the Property for Communications Facilities during the Option Period and the Term. Landlord agrees that this restriction on the use of the Property is commercially reasonable, not an undue burden on Landlord, not injurious to the public interest, and shall be specifically enforceable by Tenant (and persons deriving rights by, through or under Tenant) in a court of competent jurisdiction. The foregoing restriction shall run with the land and be binding on the successors and assigns of Landlord.

15. RIGHT OF FIRST REFUSAL. In the event Landlord determines to sell, transfer, license or otherwise convey any interest, whether fee simple interest, easement interest, leasehold, or otherwise, and whether direct or indirect by way of transfer of ownership interests in Landlord if Landlord is an entity, which interest underlies or affects any or all of the Premises (the "**ROFR Property**") to any third party that is a Third Party Competitor (as defined below), Landlord shall offer Tenant a right of first refusal to purchase the Premises (or such larger portion of the Property that encompasses the Premises, if applicable). For purposes herein, a "**Third Party Competitor**" is any person or entity directly or indirectly engaged in the business of owning, acquiring, operating, managing, investing in or leasing communications infrastructure or any person or entity directly or indirectly engaged in the business of owning, acquiring, or investing in real property leases or easements underlying communications infrastructure. In such event, Landlord shall send a written notice to Tenant in accordance with Section 29 below that shall contain an offer to Tenant of a right of first refusal to purchase the ROFR Property, together with a copy of any offer to purchase, or any executed purchase agreement or letter of intent (each, an "**Offer**"), which copy shall include, at a minimum, the purchase price or acquisition price, proposed closing date, and financing terms (collectively, the "**Minimum Terms**"). Within thirty (30) days of receipt of such Offer, Tenant shall provide written notice to Landlord of Tenant's election to purchase the ROFR Property on the same Minimum Terms, provided: (a) the closing date shall be no sooner than sixty (60) days after Tenant's purchase election notice; (b) given Landlord's direct relationship and access to Tenant, Tenant shall not be responsible for payment of any broker fees associated with an exercise of Tenant's rights to acquire the ROFR Property; and, (c) Tenant shall not be required to match any components of the purchase price which are speculative or incalculable at the time of the Offer. In such event, Landlord agrees to sell the ROFR Property to Tenant subject to Tenant's payment of the purchase price and compliance with a purchase and sale agreement to be negotiated in good faith between Landlord and Tenant. If Tenant provides written notice that it does not elect to exercise its right of first refusal to purchase the ROFR Property, or if Tenant does not provide notice of its election within the thirty (30) day period, Tenant shall be deemed to have waived such right of first refusal only with respect to the specific Offer presented (and any subsequent Offers shall again be subject to Tenant's continuing right of first refusal hereunder), and Landlord shall be permitted to consummate the sale of the ROFR Property in accordance with the strict terms of the Offer ("**Permitted Sale**"). If Landlord does not consummate the Permitted Sale within ninety (90) days of the date of Tenant's waiver of its right of first refusal, including if the Minimum Terms are modified between Landlord and the Third Party Competitor, Landlord shall be required to reissue a New Offer to Tenant.

16. SECURITY. The parties recognize and agree that Tenant shall have the right to safeguard and protect its improvements located upon or within the Premises. Consequently, Tenant may elect, at its expense, to construct such enclosures and/or fences as Tenant reasonably determines to be necessary to secure the Communications Facilities. Tenant may also undertake any other appropriate means to restrict

access to the Communications Facilities including, without limitation, if applicable, installing security systems, locks and posting signs for security purposes and as may otherwise be required by law.

17. FORCE MAJEURE. The time for performance by Landlord or Tenant of any term, provision, or covenant of this Agreement shall be deemed extended by time lost due to delays resulting from acts of God, strikes, civil riots, floods, pandemics, material or labor restrictions by governmental authority, government shutdowns, quarantines, and/or other disease control measures and any other cause not within the control of Landlord or Tenant, as the case may be.

18. CONDEMNATION; CASUALTY.

(a) In the event Landlord receives any notice of any condemnation proceedings, or other proceedings in the nature of eminent domain related to the Property or the Premises, it will forthwith send a copy of such notice to Tenant. If all or any part of the Premises is taken by eminent domain, Tenant may, upon written notice to Landlord, elect to terminate this Agreement, whereupon neither party shall have any further liability or obligation hereunder. Notwithstanding any provision of this Agreement to the contrary, in the event of condemnation of all or any part of the Premises, Landlord and Tenant shall be entitled to separate awards with respect to the Premises, in the amount determined by the court conducting such condemnation proceedings based upon Landlord's and Tenant's respective interests in the Premises. If a separate condemnation award is not determined by such court, Landlord shall permit Tenant to participate in the allocation and distribution of the award. In no event shall the condemnation award to Landlord exceed the unimproved value of the Premises, without taking into account the improvements located thereon.

(b) In case of damage to the Premises or the Communications Facilities by fire or other casualty, Landlord shall, at its expense, cause any damage to the Property (excluding the Communications Facilities) to be repaired to a condition as nearly as practicable to that existing prior to the damage, with reasonable speed and diligence, subject to delays which may arise by reason of adjustment of loss under insurance policies, governmental regulations, and for delays beyond the control of Landlord, including a force majeure. Landlord shall coordinate with Tenant as to the completion of Landlord's work to restore the Property so as not to adversely impact Tenant's use of the Premises and the Communications Facilities. Landlord shall not be liable for any inconvenience or annoyance to Tenant, or injury to Tenant's business or for any consequential damages resulting in any way from such damage or the repair thereof, except to the extent and for the time that the Communications Facilities or the Premises are thereby rendered unusable for Tenant's intended purpose the Rent shall proportionately abate. In the event the damage shall be so extensive that Tenant shall decide, in its sole discretion, not to repair or rebuild the Communications Facilities, or if the casualty shall not be of a type insured against under standard fire policies with extended type coverage, or if the holder of any mortgage, deed of trust or similar security interest covering the Communications Facilities shall not permit the application of adequate insurance proceeds for repair or restoration, this Agreement shall, at the sole option of Tenant, exercisable by written notice to Landlord, be terminated as of the date of such casualty, and the obligation to pay Rent (taking into account any abatement as aforesaid) shall cease as of the termination date and Tenant shall thereupon promptly vacate the Premises.

19. DEFAULT. The failure of Tenant or Landlord to perform any of the covenants of this Agreement shall constitute a default. The non-defaulting party shall give the other written notice of such default, and the defaulting party shall cure such default within thirty (30) days after receipt of such notice. In the event any such default cannot reasonably be cured within such thirty (30) day period, if the defaulting party shall proceed promptly after the receipt of such notice to cure such default, and shall pursue curing such default with due diligence, the time for curing shall be extended for such period of time as may be necessary to complete such curing, however, in no event shall this extension of time be in excess of sixty (60) days, unless agreed upon by the non-defaulting party.

20. REMEDIES. Should the defaulting party fail to cure a default under this Agreement, the other party shall have all remedies available either at law or in equity, and the right to terminate this Agreement. In the event Landlord elects to terminate this Agreement due to a default by Tenant (which remains uncured by Lender), Landlord shall continue to honor all sublease and license commitments made by Tenant through the expiration of the term of any such commitment and shall be entitled to collect and retain the rents or license fees associated with such subleases or license commitments, it being intended hereby that each such commitment shall survive the early termination of this Agreement.

21. ATTORNEYS' FEES. If there is any legal proceeding between Landlord and Tenant arising from or based on this Agreement, the unsuccessful party to such action or proceeding shall pay to the prevailing party all costs and expenses, including, without limitation, reasonable attorneys' fees and disbursements, incurred by such prevailing party in such action or proceeding and in any appeal in connection therewith. If such prevailing party recovers a judgment in any such action, proceeding or appeal, such costs, expenses and attorneys' fees and disbursements shall be included in and as a part of such judgment.

22. ADDITIONAL TERMINATION RIGHT. If at any time during the Term, Tenant determines, in Tenant's sole and absolute discretion, with or without cause, that the Premises is no longer suitable or desirable for Tenant's intended use and/or purposes, Tenant shall have the right to terminate this Agreement upon sixty (60) days prior written notice to Landlord.

23. PRIOR AGREEMENTS. The parties hereby covenant, recognize and agree that the terms and provisions of this Agreement shall constitute the sole embodiment of the arrangement between the parties with regard to the Premises, and that all other written or unwritten agreements, contracts, or leases by and between the parties with regard to the Premises are hereby terminated, superseded and replaced by the terms hereof.

24. SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT. In the event the Property is encumbered by a mortgage or deed of trust or other security instrument of any kind (a "**Landlord Mortgage**"), Landlord, within fifteen (15) days following Tenant's request or immediately prior to the creation of any encumbrance created after the date this Agreement is fully executed, will obtain from the holder of each such Landlord Mortgage a fully-executed subordination, non-disturbance and attornment agreement (an "**SNDA**") in recordable form, which shall be prepared or approved by Tenant. The holder of every such Landlord Mortgage shall, in the SNDA, agree that in the event of a foreclosure, or conveyance in lieu of foreclosure of Landlord's interest in the Premises, such Landlord Mortgage holder shall recognize and confirm the validity and existence of this Agreement, not disturb the tenancy of Tenant (and its customers, subtenants, and licensees) and Tenant (and its customers, subtenants, and licensees) shall have the right to continue its use and occupancy of the Premises in accordance with the provisions of this Agreement, provided Tenant is not in default of this Agreement beyond applicable notice and cure periods.

25. LENDER'S RIGHTS.

(a) Landlord agrees to recognize the subleases and licenses of all subtenants and licensees and will permit each of them to remain in occupancy of its premises notwithstanding any default hereunder by Tenant so long as each such respective subtenant or licensee is not in default under the lease/license covering its premises. Landlord agrees to execute such documents as any such subtenant and/or licensee might reasonably require, including customary subordination, non-disturbance and attornment agreements and/or Landlord recognition agreements, to further memorialize the foregoing, and further agrees to use Landlord's best efforts to also cause its lenders to similarly acknowledge, in writing, subtenant's and licensee's right to continue to occupy its premises as provided above.

(b) Landlord consents to the granting by Tenant of a lien and security interest in Tenant's interest in this Agreement and/or leasehold estate of the Premises and all of Tenant's personal property and fixtures attached to the real property described herein, and furthermore consents to the exercise by Lender

of its rights of foreclosure with respect to its lien and security interest. Landlord agrees to recognize Lender as Tenant hereunder upon any such exercise by Lender of its rights of foreclosure.

(c) Landlord hereby agrees to give Lender written notice of any breach or default of Tenant of the terms of this Agreement within fifteen (15) days after the occurrence thereof at the address set forth in Section 29. Landlord further agrees that no default under this Agreement by Tenant shall be deemed to have occurred unless such notice to Lender is also given and that, in the event of any such breach or default under the terms of this Agreement, Lender shall have the right, to the same extent, for the same period and with the same effect, as Tenant, plus an additional ninety (90) days after any applicable grace period to cure or correct any such default.

(d) Landlord acknowledges that nothing contained herein shall be deemed or construed to obligate Lender to take any action hereunder, or to perform or discharge any obligation, duty or liability of Tenant under this Agreement. Lender shall not become liable under the provisions of this Agreement or any lease executed pursuant to Section 26 hereof unless and until such time as it becomes, and then only for as long as it remains, the owner of the leasehold estate created hereby or thereby.

(e) Tenant shall have the right from time to time to mortgage or otherwise encumber Tenant's interest in this Agreement and/or leasehold estate in the Premises; provided, however, in no event shall there be more than one such mortgage or encumbrance outstanding at any one time. If Tenant shall so mortgage (each a "**Tenant Mortgage**") Tenant's interest in this Agreement and/or leasehold interest in the Premises to Lender, Tenant or Lender shall give Landlord prompt notice of such Tenant Mortgage and furnish Landlord with a complete and correct copy of such Tenant Mortgage, certified as such by Tenant or Lender, together with the name and address of Lender if it is different from the information set forth in Section 29 hereof. The term "**Lender**" as used in this Agreement shall mean the lender identified in Section 29 hereof and its successors, assigns, designees or nominees.

(f) This Agreement shall not be amended or modified without the consent of Lender. In the event that Lender shall become the owner of such leasehold estate, Lender shall not be bound by any modification or amendment of this Agreement made subsequent to the date of a Tenant Mortgage unless Lender shall have consented to such modification or amendment at the time it was made.

26. RIGHT TO NEW LEASE.

(a) In the case of termination of this Agreement for any reason, or in the event this Agreement is rejected or disaffirmed pursuant to any bankruptcy, insolvency or other law affecting creditor's rights, Landlord shall give prompt notice thereof to Lender at the address set forth in Section 29 or as may be provided to Landlord by Tenant following the Commencement Date. Thereafter, Landlord, upon written request of Lender, and within thirty (30) days after the receipt of such request, shall promptly execute and deliver a new lease of the Premises and assignment of all subleases and licenses to Lender or its designee or nominee, for the remainder of the Term upon all the covenants, conditions, limitations and agreements contained herein (including, without limitation, options to extend the Term) except for such provisions which must be modified to reflect such termination, rejection or disaffirmance and the passage of time, provided that Lender (i) shall pay to Landlord, simultaneously with the delivery of such new lease, all unpaid rent due under this Agreement up to and including the date of the commencement of the term of such new lease and all reasonable expenses, including, without limitation, reasonable attorneys' fees and disbursements and court costs, incurred by Landlord in connection with the default by Tenant, the termination of this Agreement and the preparation of the new lease, and (ii) shall cure all defaults existing under this Agreement which are susceptible to being cured by Lender promptly and with due diligence after the delivery of such new lease. Notwithstanding anything to the contrary contained herein, provided Lender

shall have otherwise complied with the provisions of this Section, Lender shall have no obligation to cure any defaults which are not susceptible to being cured by Lender (for example, the bankruptcy of Tenant).

(b) For so long as Lender shall have the right to enter into a new lease with Landlord pursuant to this Section, Landlord shall not enter into a new lease of the Premises with any person or entity other than Lender, without the prior written consent of Lender.

27. ADDITIONAL PROVISIONS.

(a) The parties hereto agree that (i) Tenant is in possession of the Premises notwithstanding the fact that Tenant has subleased or licensed, or may in the future sublease or license, certain of the improvements thereon or portions of the Premises to third parties, and (ii) the requirements of Section 365(h) of Title 11 of the United States Code (the Bankruptcy Code) with respect to Tenant's possession of the leasehold under this Agreement are satisfied. Accordingly, the right of Tenant to remain in possession of the leasehold under this Agreement shall continue notwithstanding any rejection of this Agreement in any bankruptcy proceeding involving Landlord, or any other actions by any party in such a proceeding. This provision, while included in this Agreement, has been separately negotiated and shall constitute a separate contract between the parties as well as a part of this Agreement. The provisions of this Section are for the benefit of Tenant and its assigns, including, without limitation, Lender. The parties hereto also agree that Lender is a party in interest and shall have the right to appear as a party in any proceeding brought under any bankruptcy law or under any other law which may affect this Agreement.

(b) The provisions of Section 25 and Section 26 hereof shall survive the termination, rejection or disaffirmance of this Agreement and shall continue in full force and effect thereafter to the same extent as if such Sections were a separate and independent contract made by Landlord, Tenant and Lender and, from the effective date of such termination, rejection or disaffirmance of this Agreement to the date of execution and delivery of such new lease, Lender may use and enjoy the leasehold estate created by this Agreement without hindrance by Landlord. The aforesaid agreement of Landlord to enter into a new lease with Lender shall be deemed a separate agreement between Landlord and Lender, separate and apart from this Agreement as well as a part of this Agreement, and shall be unaffected by the rejection of this Agreement in any bankruptcy proceeding by any party.

(c) Landlord shall have no right, and expressly waives any right arising under applicable law, in and to the rentals or other fees payable to Tenant, if any, under any sublease or license of the Premises by Tenant, which rentals or fees may be assigned by Tenant to Lender.

(d) If a Tenant Mortgage is in effect, this Agreement shall not be modified or amended by the parties hereto, or terminated or surrendered by Tenant, nor shall Landlord accept any such termination or surrender of this Agreement by Tenant, without the prior written consent of Lender.

(e) The provisions of Section 25 and Section 26 hereof are for the benefit of Lender and may be relied upon and shall be enforceable by Lender as if Lender were a party to this Agreement.

(f) Landlord shall, within ten (10) days of the request of Tenant or any Lender or prospective Lender, provide an estoppel certificate as to any matters reasonably requested by Tenant or Lender.

(g) The right to extend or renew this Agreement and any right of first refusal to purchase the Premises may be exercisable by the holder of a Tenant Mortgage and, before the expiration of any periods to exercise such a right, Landlord must provide to Lender at least thirty (30) days prior written notice before

the expiration of the right to so extend or renew in order to extinguish Lender's right to so extend, renew or purchase.

(h) Under no circumstances shall the fee estate of Landlord and the leasehold estate created hereby merge, even though owned by the same party, without the written consent of the holder of a Tenant Mortgage.

28. QUIET ENJOYMENT. So long as Tenant is not in default under this Agreement beyond the applicable notice and cure period, Landlord covenants and agrees that Tenant shall peaceably and quietly hold and enjoy the Premises throughout the Term, without any hindrance, molestation or ejection by Landlord, its successors or assigns or by those claiming by, through or under them.

29. NOTICES. All notices, requests, claims, demands, and other communications hereunder shall be in writing and may be hand delivered (provided the deliverer provides proof of delivery) or sent by nationally established overnight courier that provides proof of delivery, or certified or registered mail (postage prepaid, return receipt requested). Notice shall be deemed received on the date of delivery as demonstrated by the receipt of delivery. Notices shall be delivered to a party at the party's respective address below, or to such other address that a party below may provide from time to time:

If to Landlord:
Mark D. Gray, Danny
Huber and Pam Huber
80 Camelot Place
Campbellsville, KY
42718

If to Tenant:
The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, Florida 33487

Ref: US-KY-5182
Attn: VP Asset Management

If to Lender:
Barclays Bank PLC,
as Administrative Agent
745 Seventh Avenue, 5th Floor
New York, NY 10019
Attn: Karen Ngai

With a copy to: General Counsel

30. MISCELLANEOUS.

(a) Each party hereto warrants and represents that it has the necessary power and authority to enter into and perform its respective obligations under this Agreement.

(b) If any term of this Agreement is found to be void or invalid, such invalidity shall not affect the remaining terms of this Agreement, which shall continue in full force and effect.

(c) All attached exhibits are hereby incorporated by this reference as if fully set forth herein.

(d) Failure of a party to insist on strict performance of any of the conditions or provisions of this Agreement, or failure to exercise any of a party's rights hereunder, shall not waive such rights.

(e) This Agreement shall be governed by and construed in accordance with the laws of the State or Commonwealth in which the Premises are located.

(f) This Agreement constitutes the entire agreement and understanding of the parties and supersedes all offers, negotiations, other leases and/or agreements with regard to the Premises. There are no representations or understandings of any kind not set forth herein. Any amendment to this Agreement must be in writing and executed by both parties.

(g) This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, legal representatives, successors and assigns.

(h) A short-form Memorandum of Option to Lease (and a short-form Memorandum of Lease in the event Tenant exercises its option to lease the Premises) may be recorded at Landlord's or Tenant's option in the form as depicted in **Exhibit 3** and **Exhibit 4**, respectively, attached hereto. In addition, Tenant's subtenants and licensees shall have the right to record a memorandum of its sublease or license with Tenant.

(i) Landlord shall keep the terms of this Agreement confidential and shall not disclose any terms contained within this Agreement to any third party other than such terms as are set forth in the Memorandum of Option to Lease or Memorandum of Lease.

[SIGNATURES BEGIN ON NEXT PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the Effective Date (date last signed by a party hereto).

WITNESSES:

Denise Hunt
Name: Denise Hunt
Mary Hunt
Name: Mary Hunt

LANDLORD:

[Signature]
Mark D. Gray
Date: 6/26/23

STATE OF Kentucky
COUNTY OF Taylor

The foregoing instrument was acknowledged before me this June 26, 2023
2023 by Mark D. Gray.

[Signature]
Notary Public
Print Name: Roberta Cox
My Commission Expires: May 26, 2024
KYNP6600



WITNESSES:

Denise Hunt
Name: Denise Hunt
Mary Taylor
Name: Mary Taylor

LANDLORD:

Danny Huber
Danny Huber

Date: 6-26-23

Pam Huber
Pam Huber

Date: 6/26/23

STATE OF Kentucky

COUNTY OF Taylor

The foregoing instrument was acknowledged before me this June 26, 2023
20 23 by Danny Huber and Pam Huber.

Roberta Cox
Notary Public

Print Name: Roberta Cox

My Commission Expires: May 26, 2024
KYNP6600



(Tenant signature page to Option and Lease Agreement)

WITNESSES:

TENANT:

ALL
Name: Alex Greenberg
Cameron Osborne
Name: Cameron Osborne

The Towers, LLC
a Delaware limited liability company
By: [Signature]
Name: Tim Shine
Title: SVP
Date: 7.27.2023

Leasing Ops DS
18

STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this July 27
2023 by Tim Shine (name of signatory), SVP
(title of signatory) of The Towers, LLC, a Delaware limited liability company, on
behalf of the company.

[Signature]
Notary Public

Print Name: Vanessa Sanchez
My Commission Expires: April 20, 2025



EXHIBIT 1

Legal Description of the Property (Parent Parcel)

(may be updated by Tenant upon receipt of final legal description from title)

All that tract or parcel of land located in the County of Taylor, State of Kentucky, being more particularly described as follows:

TRACT ONE:

Beginning approximately four thousand feet North by East of Highway '210' by way of Salem Church Road, at an iron pin set this survey, in the right of way of said road, for a new division corner on the West side of Salem Church Road, at approximate Kentucky South Zone Coordinate 2 106 200, 370 600 (Saloma Quadrangle), thence South 12 degrees 53 minutes West for a distance of 63.1 feet to a point on the West side of a 30 foot right of way for Salem Church Road, thence South 09 degrees 49 minutes West for a distance of 45.3 feet with said right of way, thence South 05 degrees 33 minutes West for a distance of 38.8 feet, thence South 02 degrees 20 minutes West for a distance of 40.7 feet, thence South 00 degrees 44 minutes West for a distance of 209.0 feet, thence South 01 degrees 09 minutes West for a distance of 149.2 feet, thence South 01 degrees 33 minutes West for a distance of 103.3 feet, thence South 01 degrees 50 minutes West for a distance of 200.0 feet, thence South 03 degrees 10 minutes West for a distance of 154.6 feet, thence South 05 degrees 35 minutes West for a distance of 96.1 feet, thence South 07 degrees 17 minutes West for a distance of 38.1 feet, thence South 11 degrees 11 minutes West for a distance of 150.8 feet, thence South 11 degrees 31 minutes West for a distance of 158.6 feet, thence South 07 degrees 58 minutes West for a distance of 92.6 feet, thence South 00 degrees 16 minutes East for a distance of 83.3 feet, thence South 06 degrees 32 minutes East for a distance of 113.4 feet continuing with said right of way, thence South 00 degrees 51 minutes East for a distance of 41.1 feet, thence South 00 degrees 15 minutes East for a distance of 57.3 feet, thence South 06 degrees 39 minutes West for a distance of 56.0 feet, thence South 09 degrees 22 minutes West for a distance of 50.4 feet, thence South 14 degrees 32 minutes West for a distance of 89.8 feet, thence South 16 degrees 35 minutes West for a distance of 166.2 feet, thence South 16 degrees 23 minutes West for a distance of 93.7 feet, thence South 17 degrees 06 minutes West for a distance of 114.3 feet to a point in the right of way, thence North 57 degrees 07 minutes West for a distance of 7.25 feet leaving the road to a t-post corner to Salem Baptist Church (D. Bk. 176, Pg. 490) thence North 57 degrees 07 minutes West for a distance of 173.6 feet to a t-post corner of Salem Baptist Church, thence North 22 degrees 42 minutes West for a distance of 337.8 feet with the line of Read Moss (D. Bk. 49, Pg. 336) to a fence post, thence North 24 degrees 45 minutes West for a distance of 502.2 feet to another fence post, thence North 22 degrees 34 minutes West for a distance of 435.9 feet to a twenty-four (24) inch Yellow Poplar which is also a fence corner, thence South 66 degrees 44 minutes West for a distance of 184.2 feet to a twenty-eight inch maple in the fence, thence South 43 degrees 31 minutes West for a distance of 157.6 feet to a Black Walnut in the fence, thence South 37 degrees 10 minutes West for a distance of 67.5 feet to the center of Salem Branch corner to said Read Moss, thence North 75 degrees 41 minutes West for a distance of 15.3 feet with meanders of said branch and Moss's line, thence North 75 degrees 41 minutes West for a distance of 85.2 feet, thence South 69 degrees 28 minutes West for a distance of 154.1 feet, thence North 84 degrees 06 minutes West for a distance of 182.9 feet, thence North 09 degrees 55 minutes West for a distance of 97.6 feet, thence North 89 degrees 14 minutes West for a distance of 93.0 feet, thence North 51 degrees 06 minutes West for a distance of 105.0 feet, thence North 64 degrees 48 minutes West for a distance of 143.1 feet, thence South 88 degrees 50 minutes West for a distance of 255.4 feet continuing with Salem Branch, thence South 47 degrees 15 minutes West for a distance of 60.9 feet, thence North 81 degrees 35 minutes West for a distance of 90.9 feet, thence South 87 degrees 25 minutes West for a distance of 146.2 feet, thence North 49 degrees 10 minutes West for a distance of 92.9 feet, thence North 23 degrees 39 minutes West for a distance of 72.4 feet, thence North 78 degrees 48 minutes West for a distance of 66.9 feet, thence South 77 degrees 53 minutes West for a distance of 148.9 feet, thence North 51 degrees 19 minutes West for a distance of 115.5 feet, thence South 78 degrees 22 minutes West for a distance of 36.0 feet, thence North 45 degrees 31 minutes West for a distance of 230.0 feet, thence North 20 degrees 55 minutes West for a distance of 60.3 feet continuing with said, thence North 76 degrees 32 minutes West for a distance of 54.0 feet, thence North 40 degrees 40 minutes West for a distance of 62.3 feet, thence North 78 degrees 36 minutes West for a distance of 91.2 feet, thence South 67 degrees 02 minutes West for a distance of 62.0 feet, thence North 24 degrees 07 minutes West for a distance of 43.4 feet, thence North 46 degrees 12 minutes West for a distance of 49.4 feet, thence South 49 degrees 57 minutes West for a distance of 101.1 feet, thence North 66 degrees 03 minutes West for a distance of 60.6 feet, thence North 07 degrees 34 minutes West for a distance of

43.5 feet, thence North 57 degrees 18 minutes West for a distance of 143.4 feet to intersection of Salem Branch and Middle Pitman Creek corner to said Read Moss, thence North 07 degrees 48 minutes East for a distance of 600.3 feet with the meanders of said Middle Pitman Creek, thence North 50 degrees 33 minutes East for a distance of 343.6 feet, thence South 69 degrees 03 minutes East for a distance of 222.0 feet, thence North 80 degrees 29 minutes East for a distance of 81.3 feet, thence North 58 degrees 11 minutes East for a distance of 336.5 feet, thence North 32 degrees 44 minutes West for a distance of 70.3 feet, thence North 27 degrees 45 minutes East for a distance of 56.5 feet, thence South 30 degrees 21 minutes East for a distance of 98.7 feet leaving the creek to an iron pin set (this survey), thence South 82 degrees 14 minutes East for a distance of 802.9 feet to an iron pin set (this survey) in line, thence South 82 degrees 14 minutes East for a distance of 1965.8 feet to the point of beginning encompassing a computed 121.10 acres in Tract 2 as surveyed by Bart Knifley under the supervision of T. A. Phipps & Associates, Inc. completed November 20, 1996. Together with and subject to covenants, easements and restrictions of record. Said property contains 121.10 acres more or less.

There is excepted and not included in the above a 0.3 acre tract conveyed on April 16, 1991 from James W. MARRS and wife, Linda MARRS, and George R. MARRS and wife, Rhonda MARRS, to Salem Baptist Church, Inc., as found of record in Deed Book 176, Page 490 of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 1.0 acre tract conveyed on October 23, 2001 from George R. MARRS et ux to Jonathan Simms and wife, Amanda Simms as found of record in Deed Book 230, Page 201 of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 1.0 acre tract conveyed on January 18, 2002 from George R. MARRS et ux to Larry Lyons and wife, Lisa Lyons, as found in Deed Book 231, page 503, of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 2.52 acre tract conveyed on January 31, 2005 from Mark Gray and Mary Gray, husband and wife and Danny Huber and Pam Huber, husband and wife to George R. MARRS and Rhonda K. MARRS, husband and wife, as found in Deed Book 251, page 348 of the Taylor County Clerk's Office, Kentucky.

ALSO LESS AND EXCEPT Any of the land previously conveyed to James W. MARRS and Linda K. MARRS, husband and wife from George R. MARRS and Rhonda K. MARRS, husband and wife in a deed recorded June 12, 1997 in book 206 page 379 in Taylor County, Kentucky.

TRACT TWO:

A certain tract of land located approximately 2000 feet west of Salem Church Road and approximately one mile northwest of the intersection of Kentucky Highway 210 and Salem Church Road in Taylor County, Kentucky, and being more particularly described as follows:

Unless stated otherwise, any monument referred to herein as an "iron pin and cap" is a set 1/2 inch rebar 18 inches long marker "MILLER 2282". All bearings stated herein are referenced to a previous survey as recorded in deed book 249, page 714.

Beginning at an existing iron pin and cap in the line of the James W. MARRS property, (deed book 206, page 379), said iron pin being at the northwest corner of the George R. MARRS property (deed book 251, page 348), said iron pin also being a corner of the Mark Gray and Danny Huber property (deed book 249, page 714); thence with the line of said James W. MARRS property South 82 degrees 14 minutes 00 seconds East 100.00 feet to an iron pin and cap in the line of said James W. MARRS property and being a new division corner in said George R. MARRS property; thence with new division lines in said George R. MARRS property as follows: South 07 degrees 46 minutes 00 seconds West 255.00 feet to an iron pin and cap; South 82 degrees 14 minutes 00 seconds East 291.15 feet to an iron pin and cap in the line of said Gray and Huber property and being a new division corner in said George R. MARRS property; thence with the lines of said Gray and Huber property as follows: South 52 degrees 46 minutes 00 seconds West 35.36 feet to an existing iron pin and cap; North 82 degrees 14 minutes 00 seconds West 366.15 feet to an existing iron pin and cap; North 07 degrees 46 minutes 00

seconds East 280.00 feet to the beginning containing 0.80 acre according to a survey by Robert L. Miller, Jr., PLS #2282 with Miller Land Surveying, Inc. on July 6, 2005 and being a part of the same property conveyed to George R. Marris and Rhonda K. Marris by deed dated January 31, 20005 which is of record in deed book 251, page 348 in the Taylor County Clerk's office.

Parcel ID: 25-005-01

This being a portion of the same property conveyed to Mark Gray and Mary Gray, husband and wife as to a one-half interest and Danny Huber and Pam Huber, husband and wife as to a one-half interest from George R. Marris and Rhonda K. Marris, husband and wife in a deed of conveyance dated November 15, 2004 and recorded November 18, 2004 in book 249 page 714 in Taylor County, Kentucky.

This further being the same property conveyed to Mark D. Gray, unmarried from Mary E. Gray, unmarried in a quit claim deed dated October 3, 2014 and recorded October 13, 2014 in book 299 page 544 in Taylor County, Kentucky.

EXHIBIT 2

Premises

(below may be replaced with a final survey and legal description of the Premises)



EXHIBIT 3

Memorandum of Option to Lease

(Attached)

(Above 3" Space for Recorder's Use Only)

Upon Recording Return to:

The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, Florida 33487
Attn: Daniel Marinberg

Site Name: Fairway
Site Number: US-KY-5182
Commitment #: VTB-148608-C

MEMORANDUM OF OPTION TO LEASE

This Memorandum of Option to Lease ("**Memorandum**") evidences an Option and Lease Agreement (the "**Agreement**") between **Mark D. Gray**, unmarried, an undivided 1/2 interest and **Danny Huber and Pam Huber**, husband and wife, an undivided 1/2 interest, ("**Landlord**"), whose address is 80 Camelot Place, Campbellsville, KY 42718, and **The Towers, LLC**, a Delaware limited liability company, whose mailing address is 750 Park of Commerce Drive, Suite 200, Boca Raton, Florida 33487 ("**Tenant**"), dated July 27th, 2023 (the "**Effective Date**"), for a portion (the "**Premises**") of the real property (the "**Property**") described in Exhibit A attached hereto.

Pursuant to the Agreement, Landlord has granted Tenant an exclusive option to lease the Premises (the "**Option**"). The Option commenced as of the Effective Date and shall continue in effect for a period of two (2) years from the Effective Date.

Landlord ratifies, restates and confirms the Agreement and, upon exercise of the Option, shall lease to Tenant the Premises, subject to the terms and conditions of the Agreement. The Agreement provides for the lease by Landlord to Tenant of the Premises for an initial term of five (5) years with nine (9) renewal option(s) of an additional five (5) years each, and further provides:

1. Landlord may assign the Agreement only in its entirety and only to a purchaser of the fee interest of the Property;
2. Under certain circumstances, Tenant has a right of first refusal to acquire the Premises or the Property from Landlord;

3. Under certain circumstances, Landlord may not subdivide the Property without Tenant's prior written consent; and

4. The Agreement restricts Landlord's ability to utilize, or allow the utilization of the Property or real property owned by Landlord which is adjacent or contiguous to the Property for the construction, operation and/or maintenance of the Communications Facilities (as defined in the Agreement).

This Memorandum is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement. In the event of a conflict between the provisions of this Memorandum and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to the benefit of Landlord and Tenant and shall inure to the benefit of their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK, SIGNATURES
BEGIN ON NEXT PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF OPTION TO LEASE effective as of the date last signed by a party hereto.

WITNESSES:

Denise Hunt
Name: Denise Hunt
Mary Taylor
Name: Mary Taylor

LANDLORD:

Mark D. Gray
Mark D. Gray
Date: 6/26/23

STATE OF Kentucky

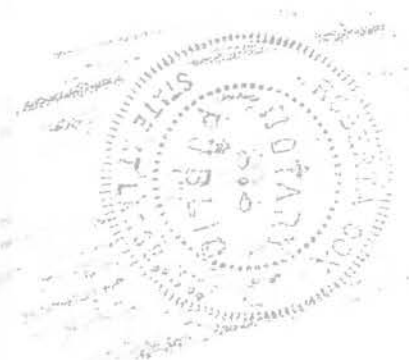
COUNTY OF Taylor

The foregoing instrument was acknowledged before me this June 26, 2023
20 23 by Mark D. Gray.

Roberta Cox
Notary Public

Print Name: Roberta Cox

My Commission Expires: May 26, 2024
KYNP6600



WITNESSES:

Denise Hunt
Name: Denise Hunt
Mary Hayes
Name: Mary Hayes

LANDLORD:

Danny Huber
Danny Huber
Date: 6-26-23
Pam Huber
Pam Huber
Date: 6/26/23

STATE OF Kentucky

COUNTY OF Taylor

The foregoing instrument was acknowledged before me this June 26, 2023
20 23 by Danny Huber and Pam Huber.

Roberta Cox
Notary Public

Print Name: Roberta Cox

My Commission Expires: May 26, 2024
KYNP6600



(Tenant's Signature Page to Memorandum of Option to Lease)

WITNESSES:

TENANT:

Alex Greenberg
Name: Alex Greenberg
Cameron Deluca
Name: Cameron Deluca

The Towers, LLC
a Delaware limited liability company
By: Tim Shine
Name: Tim Shine
Title: SVP
Date: 7-27-2023

Leasing Ops DS
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STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this July 27
2023, by Tim Shine (name of signatory), SVP
(title of signatory) of The Towers, LLC, a Delaware limited liability company, on
behalf of the company.

Vanessa Sanchez
Notary Public

Print Name: Vanessa Sanchez

My Commission Expires: April 20, 2025



EXHIBIT A
(TO MEMORANDUM OF OPTION TO LEASE)

The Property

(may be updated by Tenant upon receipt of final legal description from title)

All that tract or parcel of land located in the County of Taylor, State of Kentucky, being more particularly described as follows:

TRACT ONE:

Beginning approximately four thousand feet North by East of Highway '210' by way of Salem Church Road, at an iron pin set this survey, in the right of way of said road, for a new division corner on the West side of Salem Church Road, at approximate Kentucky South Zone Coordinate 2 106 200, 370 600 (Saloma Quadrangle), thence South 12 degrees 53 minutes West for a distance of 63.1 feet to a point on the West side of a 30 foot right of way for Salem Church Road, thence South 09 degrees 49 minutes West for a distance of 45.3 feet with said right of way, thence South 05 degrees 33 minutes West for a distance of 38.8 feet, thence South 02 degrees 20 minutes West for a distance of 40.7 feet, thence South 00 degrees 44 minutes West for a distance of 209.0 feet, thence South 01 degrees 09 minutes West for a distance of 149.2 feet, thence South 01 degrees 33 minutes West for a distance of 103.3 feet, thence South 01 degrees 50 minutes West for a distance of 200.0 feet, thence South 03 degrees 10 minutes West for a distance of 154.6 feet, thence South 05 degrees 35 minutes West for a distance of 96.1 feet, thence South 07 degrees 17 minutes West for a distance of 38.1 feet, thence South 11 degrees 11 minutes West for a distance of 150.8 feet, thence South 11 degrees 31 minutes West for a distance of 158.6 feet, thence South 07 degrees 58 minutes West for a distance of 92.6 feet, thence South 00 degrees 16 minutes East for a distance of 83.3 feet, thence South 06 degrees 32 minutes East for a distance of 113.4 feet continuing with said right of way, thence South 00 degrees 51 minutes East for a distance of 41.1 feet, thence South 00 degrees 15 minutes East for a distance of 57.3 feet, thence South 06 degrees 39 minutes West for a distance of 56.0 feet, thence South 09 degrees 22 minutes West for a distance of 50.4 feet, thence South 14 degrees 32 minutes West for a distance of 89.8 feet, thence South 16 degrees 35 minutes West for a distance of 166.2 feet, thence South 16 degrees 23 minutes West for a distance of 93.7 feet, thence South 17 degrees 06 minutes West for a distance of 114.3 feet to a point in the right of way, thence North 57 degrees 07 minutes West for a distance of 7.25 feet leaving the road to a t-post corner to Salem Baptist Church (D. Bk. 176, Pg. 490) thence North 57 degrees 07 minutes West for a distance of 173.6 feet to a t-post corner of Salem Baptist Church, thence North 22 degrees 42 minutes West for a distance of 337.8 feet with the line of Read Moss (D. Bk. 49, Pg. 336) to a fence post, thence North 24 degrees 45 minutes West for a distance of 502.2 feet to another fence post, thence North 22 degrees 34 minutes West for a distance of 435.9 feet to a twenty-four (24) inch Yellow Poplar which is also a fence corner, thence South 66 degrees 44 minutes West for a distance of 184.2 feet to a twenty-eight inch maple in the fence, thence South 43 degrees 31 minutes West for a distance of 157.6 feet to a Black Walnut in the fence, thence South 37 degrees 10 minutes West for a distance of 67.5 feet to the center of Salem Branch corner to said Read Moss, thence North 75 degrees 41 minutes West for a distance of 15.3 feet with meanders of said branch and Moss's line, thence North 75 degrees 41 minutes West for a distance of 85.2 feet, thence South 69 degrees 28 minutes West for a distance of 154.1 feet, thence North 84 degrees 06 minutes West for a distance of 182.9 feet, thence North 09 degrees 55 minutes West for a distance of 97.6 feet, thence North 89 degrees 14 minutes West for a distance of 93.0 feet, thence North 51 degrees 06 minutes West for a distance of 105.0 feet, thence North 64 degrees 48 minutes West for a distance of 143.1 feet, thence South 88 degrees 50 minutes West for a distance of 255.4 feet continuing with Salem Branch, thence South 47 degrees 15 minutes West for a distance of 60.9 feet, thence North 81 degrees 35 minutes West for a distance of 90.9 feet, thence South 87 degrees 25 minutes West for a distance of 146.2 feet, thence North 49 degrees 10 minutes West for a distance of 92.9 feet, thence North 23 degrees 39 minutes West for a distance of 72.4 feet, thence North 78 degrees 48 minutes West for a distance of 66.9 feet, thence South 77 degrees 53 minutes West for a distance of 148.9 feet, thence North 51 degrees 19 minutes West for a distance of 115.5 feet, thence South 78 degrees 22 minutes West for a distance of 36.0 feet, thence North 45 degrees 31 minutes West for a distance of 230.0 feet, thence North 20 degrees 55 minutes West for a distance of 60.3 feet continuing with said, thence North 76 degrees 32 minutes West for a distance of 54.0 feet, thence North 40 degrees 40 minutes West for a distance of 62.3 feet, thence North 78 degrees 36 minutes West for a distance of 91.2 feet, thence South 67 degrees 02 minutes West for a distance of 62.0 feet, thence North 24 degrees 07 minutes West for a distance of 43.4 feet, thence North 46 degrees 12 minutes West for a distance of 49.4 feet, thence South 49 degrees 57 minutes West for a distance of 101.1 feet, thence North 66 degrees 03 minutes West for a distance of 60.6 feet, thence North 07 degrees 34 minutes West for a distance of

43.5 feet, thence North 57 degrees 18 minutes West for a distance of 143.4 feet to intersection of Salem Branch and Middle Pitman Creek corner to said Read Moss, thence North 07 degrees 48 minutes East for a distance of 600.3 feet with the meanders of said Middle Pitman Creek, thence North 50 degrees 33 minutes East for a distance of 343.6 feet, thence South 69 degrees 03 minutes East for a distance of 222.0 feet, thence North 80 degrees 29 minutes East for a distance of 81.3 feet, thence North 58 degrees 11 minutes East for a distance of 336.5 feet, thence North 32 degrees 44 minutes West for a distance of 70.3 feet, thence North 27 degrees 45 minutes East for a distance of 56.5 feet, thence South 30 degrees 21 minutes East for a distance of 98.7 feet leaving the creek to an iron pin set (this survey), thence South 82 degrees 14 minutes East for a distance of 802.9 feet to an iron pin set (this survey) in line, thence South 82 degrees 14 minutes East for a distance of 1965.8 feet to the point of beginning encompassing a computed 121.10 acres in Tract 2 as surveyed by Bart Knifley under the supervision of T. A. Phipps & Associates, Inc. completed November 20, 1996. Together with and subject to covenants, easements and restrictions of record. Said property contains 121.10 acres more or less.

There is excepted and not included in the above a 0.3 acre tract conveyed on April 16, 1991 from James W. Marrs and wife, Linda Marrs, and George R. Marrs and wife, Rhonda Marrs, to Salem Baptist Church, Inc., as found of record in Deed Book 176, Page 490 of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 1.0 acre tract conveyed on October 23, 2001 from George R. Marrs et ux to Jonathan Simms and wife, Amanda Simms as found of record in Deed Book 230, Page 201 of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 1.0 acre tract conveyed on January 18, 2002 from George R. Marrs et ux to Larry Lyons and wife, Lisa Lyons, as found in Deed Book 231, page 503, of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 2.52 acre tract conveyed on January 31, 2005 from Mark Gray and Mary Gray, husband and wife and Danny Huber and Pam Huber, husband and wife to George R. Marrs and Rhonda K. Marrs, husband and wife, as found in Deed Book 251, page 348 of the Taylor County Clerk's Office, Kentucky.

ALSO LESS AND EXCEPT Any of the land previously conveyed to James W. Marrs and Linda K. Marrs, husband and wife from George R. Marrs and Rhonda K. Marrs, husband and wife in a deed recorded June 12, 1997 in book 206 page 379 in Taylor County, Kentucky.

TRACT TWO:

A certain tract of land located approximately 2000 feet west of Salem Church Road and approximately one mile northwest of the intersection of Kentucky Highway 210 and Salem Church Road in Taylor County, Kentucky, and being more particularly described as follows:

Unless stated otherwise, any monument referred to herein as an "iron pin and cap" is a set 1/2 inch rebar 18 inches long marker "MILLER 2282". All bearings stated herein are referenced to a previous survey as recorded in deed book 249, page 714.

Beginning at an existing iron pin and cap in the line of the James W. Marrs property, (deed book 206, page 379), said iron pin being at the northwest corner of the George R. Marrs property (deed book 251, page 348), said iron pin also being a corner of the Mark Gray and Danny Huber property (deed book 249, page 714); thence with the line of said James W. Marrs property South 82 degrees 14 minutes 00 seconds East 100.00 feet to an iron pin and cap in the line of said James W. Marrs property and being a new division corner in said George R. Marrs property; thence with new division lines in said George R. Marrs property as follows: South 07 degrees 46 minutes 00 seconds West 255.00 feet to an iron pin and cap; South 82 degrees 14 minutes 00 seconds East 291.15 feet to an iron pin and cap in the line of said Gray and Huber property and being a new division corner in said George R. Marrs property; thence with the lines of said Gray and Huber property as follows: South 52 degrees 46 minutes 00 seconds West 35.36 feet to an existing iron pin and cap; North 82 degrees 14 minutes 00 seconds West 366.15 feet to an existing iron pin and cap; North 07 degrees 46 minutes 00

seconds East 280.00 feet to the beginning containing 0.80 acre according to a survey by Robert L. Miller, Jr., PLS #2282 with Miller Land Surveying, Inc. on July 6, 2005 and being a part of the same property conveyed to George R. Marris and Rhonda K. Marris by deed dated January 31, 20005 which is of record in deed book 251, page 348 in the Taylor County Clerk's office.

Parcel ID: 25-005-01

This being a portion of the same property conveyed to Mark Gray and Mary Gray, husband and wife as to a one-half interest and Danny Huber and Pam Huber, husband and wife as to a one-half interest from George R. Marris and Rhonda K. Marris, husband and wife in a deed of conveyance dated November 15, 2004 and recorded November 18, 2004 in book 249 page 714 in Taylor County, Kentucky.

This further being the same property conveyed to Mark D. Gray, unmarried from Mary E. Gray, unmarried in a quit claim deed dated October 3, 2014 and recorded October 13, 2014 in book 299 page 544 in Taylor County, Kentucky.

Access and utilities serving the Premises (as defined in the Agreement) includes all easements of record as well as that portion of the Property designated by Landlord and Tenant for Tenant (and Tenant's guests, agents, customers, subtenants, licensees and assigns) ingress, egress, and utility purposes to and from a public right-of-way.

EXHIBIT 4

Memorandum of Lease

(Attached)

(Above 3" Space for Recorder's Use Only)

Upon Recording Return to:

The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, Florida 33487
Attn: Daniel Marinberg

Site Name: Fairway
Site Number: US-KY-5182
Commitment #: VTB-148608-C

MEMORANDUM OF LEASE

This Memorandum of Lease (this "**Memorandum**") evidences a Lease Agreement (the "**Lease**") between **Mark D. Gray**, unmarried, an undivided 1/2 interest and **Danny Huber and Pam Huber**, husband and wife, an undivided 1/2 interest, ("**Landlord**"), whose address is 80 Camelot Place, Campbellsville, KY 42718, and **The Towers, LLC**, a Delaware limited liability company, whose mailing address is 750 Park of Commerce Drive, Suite 200, Boca Raton, Florida 33487 ("**Tenant**"), dated the 27th day of July, 2023 (the "**Effective Date**"), for a portion (the "**Premises**") of the real property (the "**Property**") described in Exhibit A attached hereto.

Landlord hereby ratifies, restates and confirms the Lease and leases to Tenant the Premises, subject to the terms and conditions of the Lease. The Commencement Date of the Lease is _____. The Lease provides for the lease by Landlord to Tenant of the Premises for an initial term of five (5) years with nine (9) renewal option(s) of an additional five (5) years each, and further provides:

1. Landlord will attorn to any mortgagee of Tenant, subordinate any Landlord's lien to the Lease and to liens of Tenant's mortgagees, and not disturb the tenancy of Tenant;
2. The Lease restricts Landlord's ability to utilize, or allow the utilization of the Property or real property owned by Landlord which is adjacent or contiguous to the Property for the construction, operation and/or maintenance of Communications Facilities (as defined in the Lease);
3. Tenant (and persons deriving rights by, through, or under Tenant) are the sole parties to market, use, or sublease any portion of the Property for Communications Facilities during the term of the Lease (such restriction shall run with the land and be binding on the successors and assigns of Landlord);

4. The Premises may be used exclusively by Tenant for all legal purposes, including, without limitation, erecting, installing, operating and maintaining Communications Facilities;

5. Tenant is entitled to sublease and/or license the Premises, including any Communications Facilities located thereon;

6. Under certain circumstances, Tenant has a right of first refusal to acquire the Premises from Landlord;

7. Landlord may assign the Lease only in its entirety and only to a purchaser of the fee interest of the Property; and

8. Under certain circumstances, Landlord may not subdivide the Property without Tenant's prior written consent.

This Memorandum is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Lease. In the event of a conflict between the provisions of this Memorandum and the provisions of the Lease, the provisions of the Lease shall control. The Lease shall be binding upon and inure to the benefit of Landlord and Tenant and shall inure to the benefit of their respective heirs, successors, and assigns, subject to the provisions of the Lease.

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK, SIGNATURES
BEGIN ON NEXT PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF LEASE as of the date last signed by a party hereto.

WITNESSES:

Mary Taylor
Name: MARY TAYLOR

Denise Hunt
Name: Denise Hunt

LANDLORD:

Mark D. Gray
Mark D. Gray

Date: 6/26/23

STATE OF Kentucky

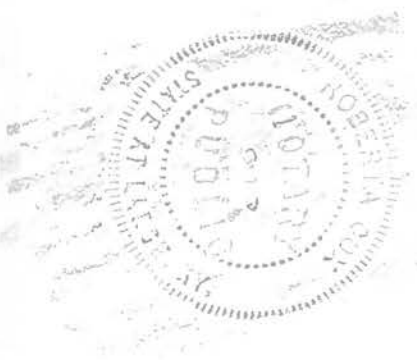
COUNTY OF Taylor

The foregoing instrument was acknowledged before me this June 26 2023
20 23 by Mark D. Gray.

Roberta Cox
Notary Public

Print Name: Roberta Cox

My Commission Expires: May 26 2024
KYNP6600



WITNESSES:

Denise Hunt
Name: Denise Hunt

Mary Hayes
Name: Mary Hayes

LANDLORD:

Danny Huber
Danny Huber

Date: 6/26/23

Pam Huber
Pam Huber

Date: 6/26/23

STATE OF Kentucky

COUNTY OF Taylor

The foregoing instrument was acknowledged before me this June 26, 2023
20 23 by Danny Huber and Pam Huber.

Robert Cox
Notary Public

Print Name: Robert Cox

My Commission Expires: May 26, 2024
KYNP6600



(Tenant's Signature Page to Memorandum of Lease)

WITNESSES:

TENANT:

Alex Greenberg
Name: Alex Greenberg

Cameron Osborne
Name: Cameron Osborne

The Towers, LLC
a Delaware limited liability company

Tim Shine
By: Tim Shine

Name: Tim Shine

Title: SVP

Date: 7.27.2023

Leasing Ops DS
19

STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this July 27
2023 by Tim Shine (name of signatory), SVP
(title of signatory) of The Towers, LLC, a Delaware limited liability company, on
behalf of the company.

Vanessa Sanchez
Notary Public

Print Name: Vanessa Sanchez

My Commission Expires: April 20, 2025



EXHIBIT A
(TO MEMORANDUM OF LEASE)

The Property

(may be updated by Tenant upon receipt of final legal description from title)

All that tract or parcel of land located in the County of Taylor, State of Kentucky, being more particularly described as follows:

TRACT ONE:

Beginning approximately four thousand feet North by East of Highway '210' by way of Salem Church Road, at an iron pin set this survey, in the right of way of said road, for a new division corner on the West side of Salem Church Road, at approximate Kentucky South Zone Coordinate 2 106 200, 370 600 (Saloma Quadrangle), thence South 12 degrees 53 minutes West for a distance of 63.1 feet to a point on the West side of a 30 foot right of way for Salem Church Road, thence South 09 degrees 49 minutes West for a distance of 45.3 feet with said right of way, thence South 05 degrees 33 minutes West for a distance of 38.8 feet, thence South 02 degrees 20 minutes West for a distance of 40.7 feet, thence South 00 degrees 44 minutes West for a distance of 209.0 feet, thence South 01 degrees 09 minutes West for a distance of 149.2 feet, thence South 01 degrees 33 minutes West for a distance of 103.3 feet, thence South 01 degrees 50 minutes West for a distance of 200.0 feet, thence South 03 degrees 10 minutes West for a distance of 154.6 feet, thence South 05 degrees 35 minutes West for a distance of 96.1 feet, thence South 07 degrees 17 minutes West for a distance of 38.1 feet, thence South 11 degrees 11 minutes West for a distance of 150.8 feet, thence South 11 degrees 31 minutes West for a distance of 158.6 feet, thence South 07 degrees 58 minutes West for a distance of 92.6 feet, thence South 00 degrees 16 minutes East for a distance of 83.3 feet, thence South 06 degrees 32 minutes East for a distance of 113.4 feet continuing with said right of way, thence South 00 degrees 51 minutes East for a distance of 41.1 feet, thence South 00 degrees 15 minutes East for a distance of 57.3 feet, thence South 06 degrees 39 minutes West for a distance of 56.0 feet, thence South 09 degrees 22 minutes West for a distance of 50.4 feet, thence South 14 degrees 32 minutes West for a distance of 89.8 feet, thence South 16 degrees 35 minutes West for a distance of 166.2 feet, thence South 16 degrees 23 minutes West for a distance of 93.7 feet, thence South 17 degrees 06 minutes West for a distance of 114.3 feet to a point in the right of way, thence North 57 degrees 07 minutes West for a distance of 7.25 feet leaving the road to a t-post corner to Salem Baptist Church (D. Bk. 176, Pg. 490) thence North 57 degrees 07 minutes West for a distance of 173.6 feet to a t-post corner of Salem Baptist Church, thence North 22 degrees 42 minutes West for a distance of 337.8 feet with the line of Read Moss (D. Bk. 49, Pg. 336) to a fence post, thence North 24 degrees 45 minutes West for a distance of 502.2 feet to another fence post, thence North 22 degrees 34 minutes West for a distance of 435.9 feet to a twenty-four (24) inch Yellow Poplar which is also a fence corner, thence South 66 degrees 44 minutes West for a distance of 184.2 feet to a twenty-eight inch maple in the fence, thence South 43 degrees 31 minutes West for a distance of 157.6 feet to a Black Walnut in the fence, thence South 37 degrees 10 minutes West for a distance of 67.5 feet to the center of Salem Branch corner to said Read Moss, thence North 75 degrees 41 minutes West for a distance of 15.3 feet with meanders of said branch and Moss's line, thence North 75 degrees 41 minutes West for a distance of 85.2 feet, thence South 69 degrees 28 minutes West for a distance of 154.1 feet, thence North 84 degrees 06 minutes West for a distance of 182.9 feet, thence North 09 degrees 55 minutes West for a distance of 97.6 feet, thence North 89 degrees 14 minutes West for a distance of 93.0 feet, thence North 51 degrees 06 minutes West for a distance of 105.0 feet, thence North 64 degrees 48 minutes West for a distance of 143.1 feet, thence South 88 degrees 50 minutes West for a distance of 255.4 feet continuing with Salem Branch, thence South 47 degrees 15 minutes West for a distance of 60.9 feet, thence North 81 degrees 35 minutes West for a distance of 90.9 feet, thence South 87 degrees 25 minutes West for a distance of 146.2 feet, thence North 49 degrees 10 minutes West for a distance of 92.9 feet, thence North 23 degrees 39 minutes West for a distance of 72.4 feet, thence North 78 degrees 48 minutes West for a distance of 66.9 feet, thence South 77 degrees 53 minutes West for a distance of 148.9 feet, thence North 51 degrees 19 minutes West for a distance of 115.5 feet, thence South 78 degrees 22 minutes West for a distance of 36.0 feet, thence North 45 degrees 31 minutes West for a distance of 230.0 feet, thence North 20 degrees 55 minutes West for a distance of 60.3 feet continuing with said, thence North 76 degrees 32 minutes West for a distance of 54.0 feet, thence North 40 degrees 40 minutes West for a distance of 62.3 feet, thence North 78 degrees 36 minutes West for a distance of 91.2 feet, thence South 67 degrees 02 minutes West for a distance of 62.0 feet, thence North 24 degrees 07 minutes West for a distance of 43.4 feet, thence North 46 degrees 12 minutes West for a distance of 49.4 feet, thence South 49 degrees 57 minutes West for a distance of 101.1 feet, thence North 66 degrees 03 minutes West for a distance of 60.6 feet, thence North 07 degrees 34 minutes West for a distance of

43.5 feet, thence North 57 degrees 18 minutes West for a distance of 143.4 feet to intersection of Salem Branch and Middle Pitman Creek corner to said Read Moss, thence North 07 degrees 48 minutes East for a distance of 600.3 feet with the meanders of said Middle Pitman Creek, thence North 50 degrees 33 minutes East for a distance of 343.6 feet, thence South 69 degrees 03 minutes East for a distance of 222.0 feet, thence North 80 degrees 29 minutes East for a distance of 81.3 feet, thence North 58 degrees 11 minutes East for a distance of 336.5 feet, thence North 32 degrees 44 minutes West for a distance of 70.3 feet, thence North 27 degrees 45 minutes East for a distance of 56.5 feet, thence South 30 degrees 21 minutes East for a distance of 98.7 feet leaving the creek to an iron pin set (this survey), thence South 82 degrees 14 minutes East for a distance of 802.9 feet to an iron pin set (this survey) in line, thence South 82 degrees 14 minutes East for a distance of 1965.8 feet to the point of beginning encompassing a computed 121.10 acres in Tract 2 as surveyed by Bart Kniffley under the supervision of T. A. Phipps & Associates, Inc. completed November 20, 1996. Together with and subject to covenants, easements and restrictions of record. Said property contains 121.10 acres more or less.

There is excepted and not included in the above a 0.3 acre tract conveyed on April 16, 1991 from James W. MARRS and wife, Linda MARRS, and George R. MARRS and wife, Rhonda MARRS, to Salem Baptist Church, Inc., as found of record in Deed Book 176, Page 490 of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 1.0 acre tract conveyed on October 23, 2001 from George R. MARRS et ux to Jonathan Simms and wife, Amanda Simms as found of record in Deed Book 230, Page 201 of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 1.0 acre tract conveyed on January 18, 2002 from George R. MARRS et ux to Larry Lyons and wife, Lisa Lyons, as found in Deed Book 231, page 503, of the Taylor County Clerk's Office, Kentucky.

There is also excepted and not included in the above a 2.52 acre tract conveyed on January 31, 2005 from Mark Gray and Mary Gray, husband and wife and Danny Huber and Pam Huber, husband and wife to George R. MARRS and Rhonda K. MARRS, husband and wife, as found in Deed Book 251, page 348 of the Taylor County Clerk's Office, Kentucky.

ALSO LESS AND EXCEPT Any of the land previously conveyed to James W. MARRS and Linda K. MARRS, husband and wife from George R. MARRS and Rhonda K. MARRS, husband and wife in a deed recorded June 12, 1997 in book 206 page 379 in Taylor County, Kentucky.

TRACT TWO:

A certain tract of land located approximately 2000 feet west of Salem Church Road and approximately one mile northwest of the intersection of Kentucky Highway 210 and Salem Church Road in Taylor County, Kentucky, and being more particularly described as follows:

Unless stated otherwise, any monument referred to herein as an "iron pin and cap" is a set 1/2 inch rebar 18 inches long marker "MILLER 2282". All bearings stated herein are referenced to a previous survey as recorded in deed book 249, page 714.

Beginning at an existing iron pin and cap in the line of the James W. MARRS property, (deed book 206, page 379), said iron pin being at the northwest corner of the George R. MARRS property (deed book 251, page 348), said iron pin also being a corner of the Mark Gray and Danny Huber property (deed book 249, page 714); thence with the line of said James W. MARRS property South 82 degrees 14 minutes 00 seconds East 100.00 feet to an iron pin and cap in the line of said James W. MARRS property and being a new division corner in said George R. MARRS property; thence with new division lines in said George R. MARRS property as follows: South 07 degrees 46 minutes 00 seconds West 255.00 feet to an iron pin and cap; South 82 degrees 14 minutes 00 seconds East 291.15 feet to an iron pin and cap in the line of said Gray and Huber property and being a new division corner in said George R. MARRS property; thence with the lines of said Gray and Huber property as follows: South 52 degrees 46 minutes 00 seconds West 35.36 feet to an existing iron pin and cap; North 82 degrees 14 minutes 00 seconds West 366.15 feet to an existing iron pin and cap; North 07 degrees 46 minutes 00

seconds East 280.00 feet to the beginning containing 0.80 acre according to a survey by Robert L. Miller, Jr., PLS #2282 with Miller Land Surveying, Inc. on July 6, 2005 and being a part of the same property conveyed to George R. Marris and Rhonda K. Marris by deed dated January 31, 2005 which is of record in deed book 251, page 348 in the Taylor County Clerk's office.

Parcel ID: 25-005-01

This being a portion of the same property conveyed to Mark Gray and Mary Gray, husband and wife as to a one-half interest and Danny Huber and Pam Huber, husband and wife as to a one-half interest from George R. Marris and Rhonda K. Marris, husband and wife in a deed of conveyance dated November 15, 2004 and recorded November 16, 2004 in book 249 page 714 in Taylor County, Kentucky.

This further being the same property conveyed to Mark D. Gray, unmarried from Mary E. Gray, unmarried in a quit claim deed dated October 3, 2014 and recorded October 13, 2014 in book 299 page 544 in Taylor County, Kentucky.

Access and utilities serving the Premises (as defined in the Lease) includes all easements of record as well as that portion of the Property designated by Landlord and Tenant for Tenant (and Tenant's guests, agents, customers, subtenants, licensees and assigns) ingress, egress, and utility purposes to and from a public right-of-way.

Said interest being over land more particularly described by the following description:

Insert metes and bounds description of area

UPDATED NOTIFICATION LIST - MAILING ON JULY 10, 2024

GRAY MARK & DANNY & PAM HUBER
80 CAMELOT DR
CAMPBELLSVILLE, KY 42718

LYONS LARRY & LISA
379 SALEM CHURCH RD CAMPBELLSVILLE
KY 42718

DUNLAP JUDY
335 SALEM CHURCH RD CAMPBELLSVILLE
KY 42718

SALEM BAPTIST CHURCH
271 SALEM CHURCH RD CAMPBELLSVILLE,
KY 42718

WALTERS PATSY
109 LAUREL LANE
CAMPBELLSVILLE KY 42718

BENNINGFIELD JOHN & CARA
353 CARVER LANE
ALVATON, KY 42122

BROWNING TOMMIE EDGAR
638 NOE RD
CAMPBELLSVILLE KY 42718

MARRS GEORGE R & RHONDA
769 SALEM CHURCH RD CAMPBELLSVILLE,
KY 42718

MARRS JEREMY ALAN
765 SALEM CHURCH RD CAMPBELLSVILLE,
KY 42718

MARRS JAMES WILLIAM JR & ANGELA
DAWN AKIN &
KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718

MARRS JAMES WILLIAM JR &
ANGELA DAWN AKIN &
KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718

PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

JOHNSON LOGAN & MADISON
382 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

MATTHEWS BRENDA & WANDA
332 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

COCHRAN ANGELA GAIL &
COCHRAN MARY KATLIN
344 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

NOTIFICATION LISTING - MAILING OF MAY 16, 2024

GRAY MARK & DANNY & PAM HUBER
80 CAMELOT DR
CAMPBELLSVILLE, KY 42718

LYONS LARRY & LISA
379 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

DUNLAP JUDY
335 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

SALEM BAPTIST CHURCH
271 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718

WALTERS PATSY
109 LAUREL LANE
CAMPBELLSVILLE KY 42718

BENNINGFIELD JOHN & CARA
353 CARVER LANE
ALVATON, KY 42122

BROWNING TOMMIE EDGAR
638 NOE RD
CAMPBELLSVILLE KY 42718

Parcel # 25-005-01-03
MARRS GEORGE R & RHONDA
769 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718

MARRS JEREMY ALAN
765 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718

MARRS JAMES WILLIAM JR & ANGELA DAWN
AKIN &
KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718

MARRS JAMES WILLIAM JR & ANGELA DAWN
AKIN &
KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718

PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

JOHNSON LOGAN & MADISON
382 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

MATTHEWS BRENDA & WANDA
332 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

COCHRAN ANGELA GAIL
310 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

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

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

May 16, 2024

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

Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC (Vertical Bridge) propose to construct a wireless communications facility on a site located 601 Salem Church Road, Campbellsville, KY 42718 (North Latitude: (37° 22' 13.45", West Longitude 85° 23' 10.76"). The proposed facility will include a 180-foot-tall monopole tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00160 in any correspondence sent in connection with this matter.

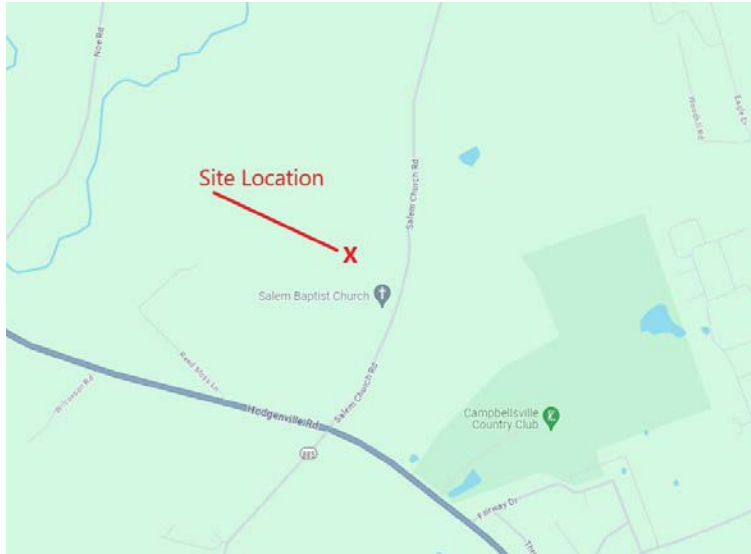
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,



Russell L. Brown
Attorney for Applicant
RLB/jj
Enclosure

Vicinity Map



Location Map





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Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL



9589 0710 5270 2002 9177 41

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379 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



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DUNLAP JUDY
335 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



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271 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718



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WALTERS PATSY
109 LAUREL LANE
CAMPBELLSVILLE KY 42718



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BENNINGFIELD JOHN & CARA
353 CARVER LANE
ALVATON, KY 42122



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BROWNING TOMMIE EDGAR
638 NOE RD
CAMPBELLSVILLE KY 42718



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MARRS GEORGE R & RHONDA
769 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718



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US POSTAGE^{MI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
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MARRS JEREMY ALAN
765 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL



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US POSTAGE^{IMPITNEY BOWES}



ZIP 46204 \$ 008.69⁰
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0006035028 MAY 16 2024

MARRS JAMES WILLIAM JR & ANGELA DAWN AKIN
& KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL



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US POSTAGE^{IMPITNEY BOWES}



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 16 2024

PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL



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FIRST-CLASS



US POSTAGE^{IMPITNEY BOWES}



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 16 2024

JOHNSON LOGAN & MADISON
382 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL



9589 0710 5270 2002 9178 64

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US POSTAGESM PITNEY BOWES

ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 16 2024

MATTHEWS BRENDA & WANDA
332 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

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US POSTAGESM PITNEY BOWES

ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 16 2024

COCHRAN ANGELA GAIL
310 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718

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Certified Mail Fee	\$ 4.40
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To GRAY MARK & DANNY & PAM HUBER
Street and Apt. 1 80 CAMELOT DR
City, State, ZIP+4 CAMPBELLSVILLE, KY 42718

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Certified Mail Fee	\$ 4.40
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<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To LYONS LARRY & LISA
Street and Apt. N 379 SALEM CHURCH RD
City, State, ZIP+4 CAMPBELLSVILLE KY 42718

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
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<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To DUNLAP JUDY
Street and Apt 335 SALEM CHURCH RD
City, State, ZIP CAMPBELLSVILLE KY 42718

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Certified Mail Fee	\$ 4.40
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To SALEM BAPTIST CHURCH
Street and Apt. No 271 SALEM CHURCH RD
City, State, ZIP+4 CAMPBELLSVILLE, KY 42718

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To WALTERS PATSY
Street and Apt 109 LAUREL LANE
City, State, ZIP CAMPBELLSVILLE KY 42718

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To BENNINGFIELD JOHN & CARA
Street and Apt. 1 353 CARVER LANE
City, State, ZIP+4 ALVATON, KY 42122

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To BROWNING TOMMIE EDGAR
 Street and Apt. 638 NOE RD
 City, State, ZIP+4 CAMPBELLSVILLE KY 42718

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<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To MARRS GEORGE R & RHONDA
 Street and Apt. 769 SALEM CHURCH RD
 City, State, ZIP+4 CAMPBELLSVILLE, KY 42718

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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Certified Mail Fee	\$ 4.40
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<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To MARRS JEREMY ALAN
 Street and Apt. 765 SALEM CHURCH RD
 City, State, ZIP+4 CAMPBELLSVILLE, KY 42718

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Certified Mail Fee	\$ 4.40
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To MARRS JAMES WILLIAM JR &
 ANGELA DAWN AKIN
 Street and Apt. No 55 BETHEL HILL RD
 City, State, ZIP+4 CAMPBELLSVILLE, KY 42718

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To PIERCE BOBBY & PATRICIA
 Street and Apt. No 530 SALEM CHURCH RD
 City, State, ZIP+4 CAMPBELLSVILLE KY 42718

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To JOHNSON LOGAN & MADISON
 Street and Apt. 382 SALEM CHURCH RD
 City, State, ZIP+4 CAMPBELLSVILLE KY 42718

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Certified Mail Fee	\$ 4.40
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To MATTHEWS BRENDA & WANDA
 Street and Apt. 1 332 SALEM CHURCH RD
 City, State, ZIP+4 CAMPBELLSVILLE KY 42718

9589 0710 5270 2002 9178 71

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Certified Mail Fee	\$ 4.40
Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$

Postmark
Here

Postage	\$.64
Total Postage and Fees	\$ 8.69

Sent To COCHRAN ANGELA GAIL
 Street and Apt. N 310 SALEM CHURCH RD
 City, State, ZIP+4 CAMPBELLSVILLE KY 42718

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:

MARRS JAMES WILLIAM JR &
ANGELA DAWN AKIN
& KENDALL MARY ELIZABETH
55 BETHEL HILL RD
CAMPBELLSVILLE, KY 42718



9590 9402 8749 3310 9097 00

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9178 33

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Mary Marrs*

- Agent
- Addressee

B. Received by (Printed Name)

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
- Insured Mail
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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:

MATTHEWS BRENDA & WANDA
332 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9097 31

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9178 64

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *W. Matthews*

- Agent
- Addressee

B. Received by (Printed Name)

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
- Insured Mail
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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:

PIERCE BOBBY & PATRICIA
530 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9097 17

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9178 40

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Patricia Pierce*

- Agent
- Addressee

B. Received by (Printed Name)

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
- Insured Mail
- Insured Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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:

WALTERS PATSY
109 LAUREL LANE
CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9096 56

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9177 89

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Patsy Walters

- Agent
- Addressee

B. Received by (Printed Name)

Patsy Walters

C. Date of Delivery

5/22/24

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

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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:

LYONS LARRY & LISA
379 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9096 25

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9177 58

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Larry Lyons

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

5/21/2021

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

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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:

DUNLAP JUDY
335 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



9590 9402 8749 3310 9096 32

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9177 65

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Juden Dunlap

- Agent
- Addressee

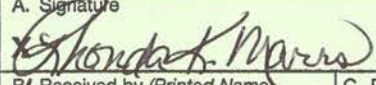
B. Received by (Printed Name)

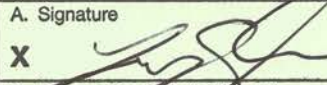
C. Date of Delivery

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
- Insured Mail
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ 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. 	<p>A. Signature  <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) Rhonda K. Marrs</p> <p>C. Date of Delivery 5/30/24</p>																
<p>1. Article Addressed to:</p> <p>MARRS GEORGE R & RHONDA 709 SALEM CHURCH RD CAMPBELLSVILLE, KY 42718</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>9589 0710 5270 2002 9178 19</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><input type="checkbox"/> Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery</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"/> Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery	
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<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>																	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> ■ 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. 	<p>A. Signature  <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)</p> <p>C. Date of Delivery 5/28/24</p>																
<p>1. Article Addressed to:</p> <p>JOHNSON LOGAN & MADISON 382 SALEM CHURCH RD CAMPBELLSVILLE KY 42718</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>9589 0710 5270 2002 9178 57</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td></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</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Certified Mail	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery		<input type="checkbox"/> Collect on Delivery		<input type="checkbox"/> Collect on Delivery Restricted Delivery		<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery	
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<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>																	

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:

**BROWNING TOMMIE EDGAR
638 NOE RD
CAMPBELLSVILLE KY 42718**



9590 9402 8749 3310 9096 63

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9178 02

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Addressee
Received by (Printed Name) C. Date of Delivery
Debbie Browning **6/3/24**
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 Restrict
Delivery
 Certified Mail® Signature Confirmation™
 Certified Mail Restricted Delivery Signature Confirmation
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Restricted Delivery

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ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 2002 9178 26

INDIANAPOLIS IN 460

16 MAY 2024PM 3 L

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ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 16 2024

5/25
24

MARRS JEREMY ALAN
765 SALEM CHURCH RD
CAMPBELLSVILLE, K

NIXIE 402 CE 1 0206/13/24

RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

UNC
46204>1729
42718-858365

SC: 46204172975 *1912-01143-16-39



ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND CENTRAL U.S. ...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052702002917796

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your item was delivered to an individual at the address at 11:35 am on May 20, 2024 in ALVATON, KY 42122.

Get More Out of USPS Tracking:

[USPS Tracking Plus®](#)

Delivered

Delivered, Left with Individual

ALVATON, KY 42122

May 20, 2024, 11:35 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®](#)



[Product Information](#)



[See Less ^](#)

[Track Another Package](#)



Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND CENTRAL U.S. ...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052702002917772

[Copy](#)

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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®

Feedback

Moving Through Network

In Transit to Next Facility

June 29, 2024

Departed USPS Regional Facility

JACKSONVILLE FL DISTRIBUTION CENTER

June 25, 2024, 12:16 pm

[See All Tracking History](#)

[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

ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND CENTRAL U.S. ...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

9589071052702002917741

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](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®

Delivered

Out for Delivery

Preparing for Delivery

Moving Through Network

In Transit to Next Facility

May 23, 2024

Arrived at USPS Regional Facility

LOUISVILLE KY DISTRIBUTION CENTER

May 19, 2024, 10:45 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®



Product Information



See Less ^

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

ALERT: FLOODING AND SEVERE WEATHER IN THE SOUTH, SOUTHEAST, AND CENTRAL U.S. ...

USPS Tracking®

FAQs >

Tracking Number:

Remove X

9589071052702002917871

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

Latest Update

Your item was returned to the sender at 12:18 pm on June 26, 2024 in CAMPBELLSVILLE, KY 42718 because the forwarding order for this address is no longer valid.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Alert

Forward Expired

CAMPBELLSVILLE, KY 42718

June 26, 2024, 12:18 pm

In Transit to Next Facility

June 17, 2024

See All Tracking History

[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



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

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

July 10, 2024

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

Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC (Vertical Bridge) propose to construct a wireless communications facility on a site located 601 Salem Church Road, Campbellsville, KY 42718 (North Latitude: (37° 22' 13.45", West Longitude 85° 23' 10.76"). The proposed facility will include a 180-foot tall monopole tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00160 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,
Russell L. Brown

Attorney for Applicant
RLB/mnw
enclosure

Vicinity Map



Location Map



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 2002 9185 19

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ZIP 46204 \$ 008.69⁰
02 7H
0006035028 JUL 10 2024

GRAY MARK & DANNY &
PAM HUBER
80 CAMELOT DR
CAMPBELLSVILLE, KY 42718

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ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 2002 9185 26

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US POSTAGE^{IM}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 JUL 10 2024

SALEM BAPTIST CHURCH
271 SALEM CHURCH RD
CAMPBELLSVILLE, KY 42718

CERTIFIED MAIL[®]

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 2002 9185 33

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US POSTAGE^{IM}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 JUL 10 2024

COCHRAN ANGELA GAIL &
COCHRAN MARY KATLIN
344 SALEM CHURCH RD
CAMPBELLSVILLE KY 42718



www.clarkquinnlaw.com

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

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

May 16, 2024

Via Certified Mail, Return Receipt Requested

Hon. Barry Smith
Taylor County Judge/Executive
203 North Court Street
Campbellsville, KY 42718

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2024-00160
Site Name: Fairway

Dear Judge Smith:

Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC (Vertical Bridge) propose to construct a wireless communications facility on a site located at 601 Salem Church Road, Campbellsville, KY 42718 (North Latitude: (37° 22' 13.45", West Longitude 85° 23' 10.76"). The proposed facility will include a 180-foot-tall monopole tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00160 in any correspondence sent in connection with this matter.

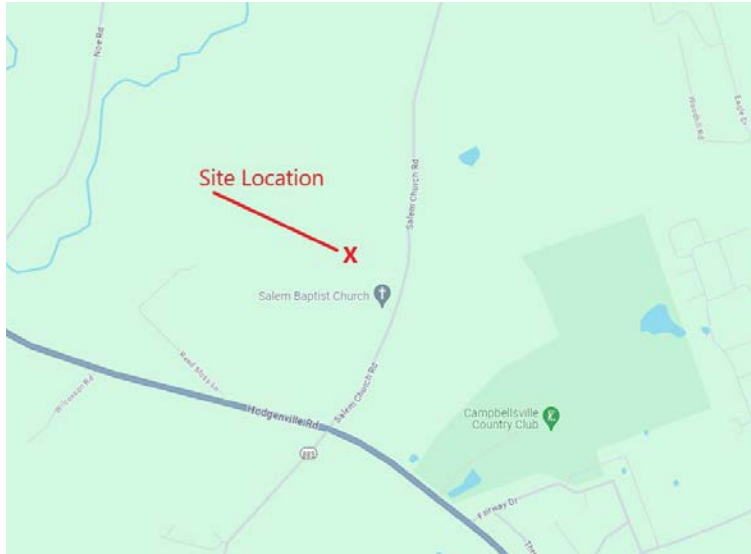
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the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

Sincerely,

A handwritten signature in black ink, appearing to read 'RLB'.

Russell L. Brown
Attorney for Applicant
RLB/jj
Enclosure

Vicinity Map



Location Map



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ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 2002 9178 88

FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 16 2024

HON. BARRY SMITH
TAYLOR COUNTY JUDGE/EXECUTIVE
203 NORTH COURT STREET
CAMPBELLSVILLE, KY 42718

9589 0710 5270 2002 9178 88

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Extra Services & Fees (check box, add fee as appropriate)	
<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.65
<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	\$ _____

Postmark
Here

Postage	\$ 1.64
Total Postage and Fees	\$ 8.69

Sent To HON. BARRY SMITH
 Street and Apt. # TAYLOR COUNTY JUDGE/EXECUTIVE
 203 NORTH COURT STREET
 City, State, ZIP+4 CAMPBELLVILLE, KY 42718

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:

HON. BARRY SMITH
TAYLOR COUNTY JUDGE/EXECUTIVE
203 NORTH COURT STREET
CAMPBELLSVILLE, KY 42718



9590 9402 8749 3310 9097 55

2. Article Number (Transfer from service label)

9589 0710 5270 2002 9178 88

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Breanna Sharp*

- Agent
- Addressee

B. Received by (Printed Name)

Breanna Sharp

C. Date of Delivery

5/20/24

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
- Mail Restricted Delivery

SITE NAME: Fairway NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

Cellco Partnership, d/b/a Verizon Wireless and APC Towers propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00160 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless and APC Towers propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00160 in your correspondence.



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

VIA EMAIL: legals@cknj.com
Central Kentucky News-Journal
200 Albion Way
Campbellsville, KY 42718

Land Use Consultant
Elizabeth Bentz Williams, AICP

*Also admitted in Montana
†Also admitted in Kentucky
**

Registered Civil Mediator

RE: Legal Notice Advertisement
Site Name: Fairway

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of the Tribune Courier Publication:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and The Towers, LLC (Vertical Bridge) propose to construct a wireless communications facility on a site located 601 Salem Church Road, Campbellsville, KY 42718 (North Latitude: (37° 22' 13.45" , West Longitude 85° 23' 10.76"). The proposed facility will include a 180-foot tall self-support tower, plus a 10-foot lightning arrester and related ground facilities.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00160 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 Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to ebw@clarkquinnlaw.com. Please call me on my cell with any questions at 317-902-2187 if you have any questions. Thank you for your assistance.

Sincerely,

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

Elizabeth Bentz Williams, AICP

CK Fairway – Search Ring

Latitude: 37.364627°

Longitude: -85.387987°

Ring Radius: .5 mile

Desired Height: 170 – 199





March 19, 2024

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications

Facility Site Name: CK Fairway

Type of Tower: 180Ft. Monopole

Location: 630 Salem Church Rd, Campbellsville, KY 42718

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called, CK Fairway.

The CK Fairway site is proposed with the below objectives:

1. To improve service along Kentucky Route 210.
2. To offload existing traffic of existing Verizon sites in this area.

Currently the area is experiencing poor service along Kentucky Route 210. There is a high demand for wireless high-speed data and phone service in this area. This tower is needed to provide all Verizon customers in the area with the best experience on their wireless devices.

Raw Land – Design plans for a new tower would provide overall tower height of 180' with a Verizon Wireless Centerline of 175'. The new structure height was decided upon to best cover Kentucky Route 210 and to offload traffic from the nearby existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. The new structure is proposed to be placed near the center of the problem area. The new tower design solves the stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. Verizon Wireless is currently collocated on some existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed site.



Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network; which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted communications throughout the coverage area.

Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources and raise a system capacity overload concern.

This cell site has been designed, and shall be constructed and operated in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

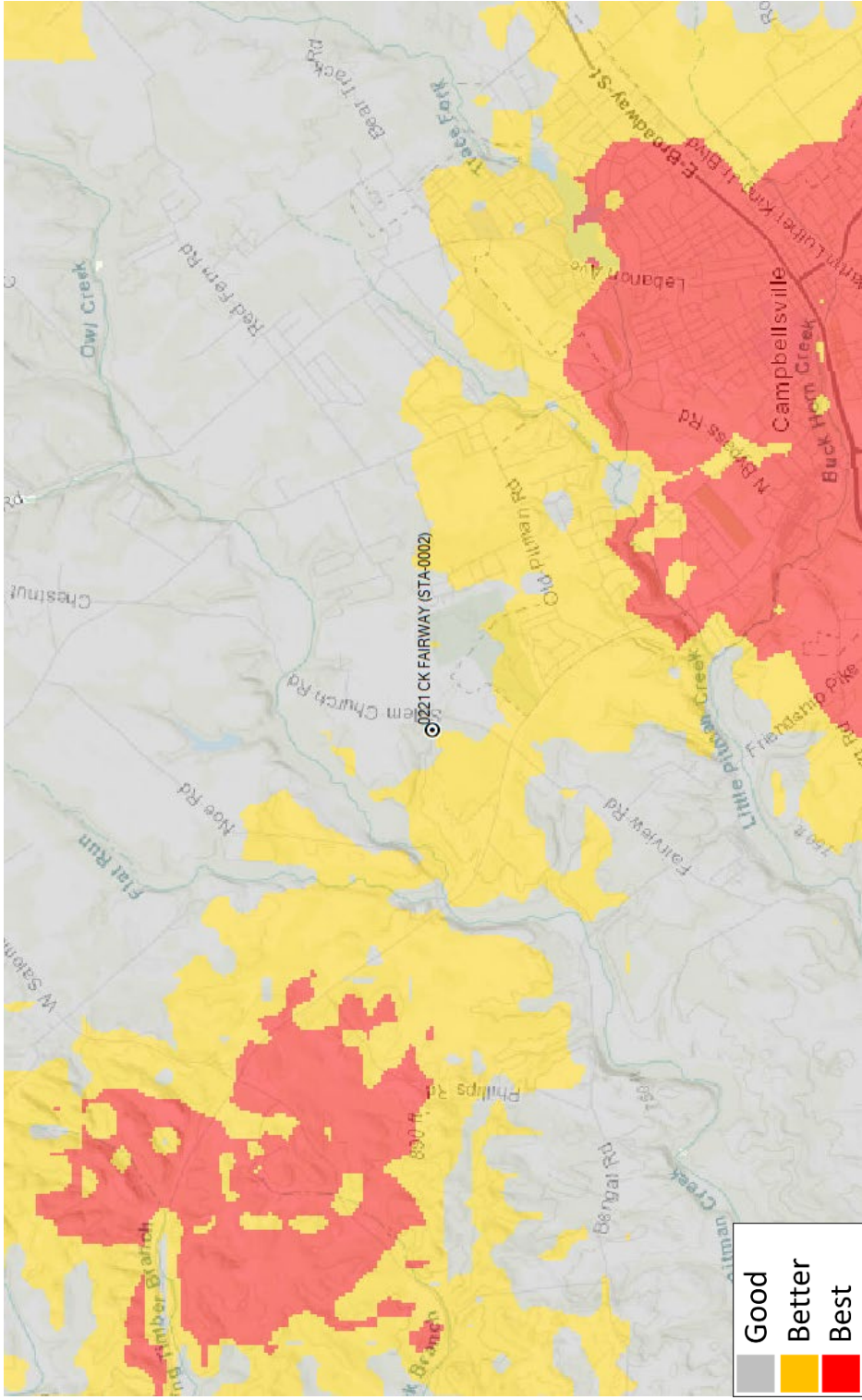
Sincerely,

Steven Belcher
Sr. RF Engineer
Verizon Wireless





Current Coverage - Without proposed site CK Fairway





Coverage - With proposed site CK Fairway

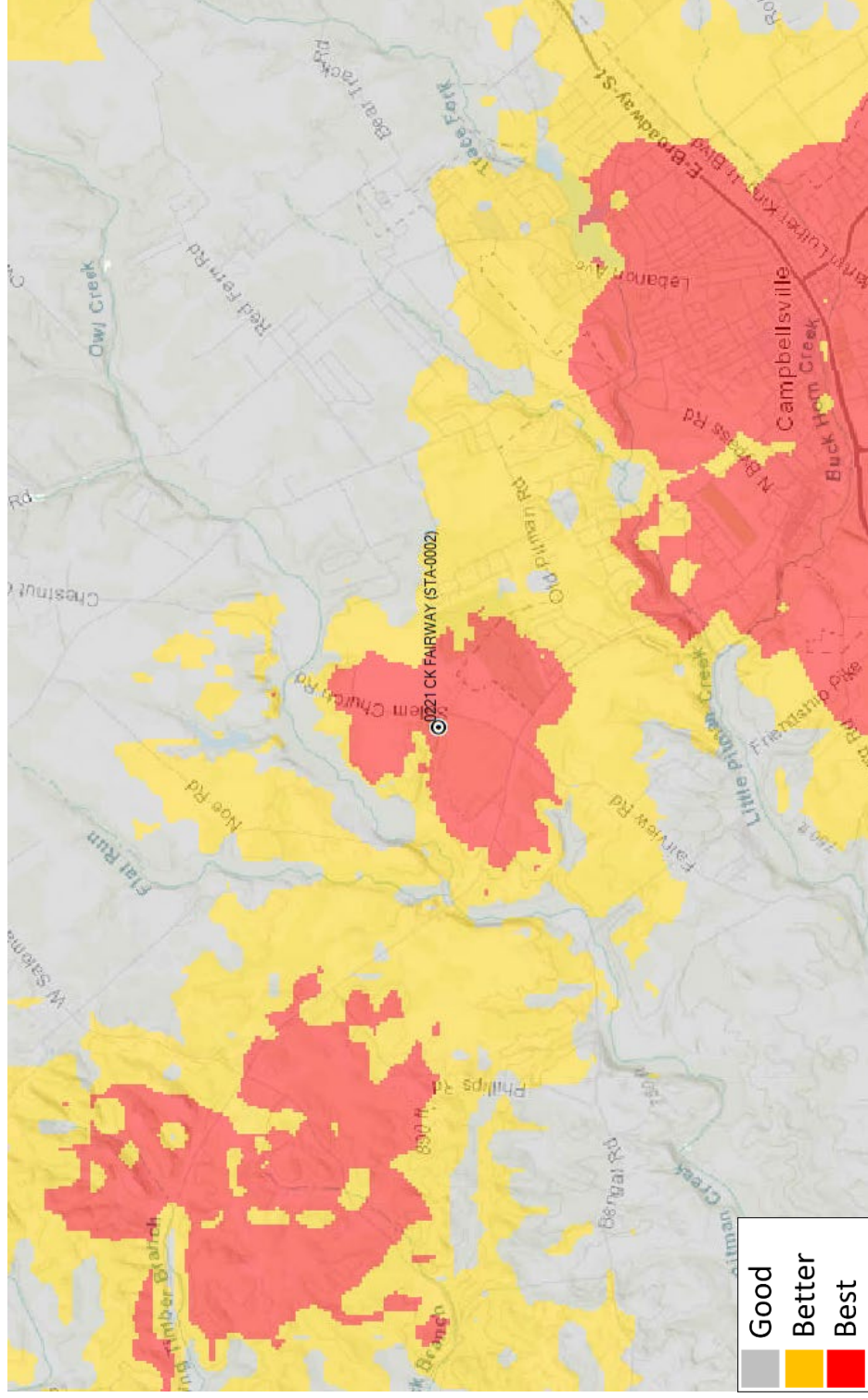


Exhibit S
List and Identity and Qualifications of Professionals

Mark E. Patterson
Professional Engineer
Kentucky License 16300
Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

Mark E. Patterson
Professional Land Surveyor
Kentucky License 3136
Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

Jason Mark Lambert
Professional Engineer
Kentucky License 28217
Nello Corporation
1201 S. Sheridan St.
South Bend IN 46619

Vince Caprino
Construction Manager
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

STATE OF INDIANA)
) SS:
COUNTY OF MARION)

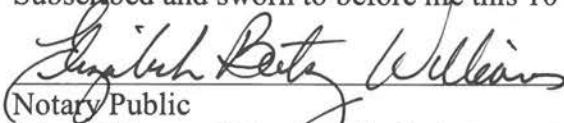
**AFFIDAVIT OF CERTIFICATION
COMMONWEALTH OF KENTUCKY
PUBLIC SERVICE COMMISSION**

I Russell L. Brown, attorney for Cellco Partnership, d/b/a Verizon Wireless do hereby certify that as the person supervising the preparation of this application and all statements and information contained herein are true and accurate to the best of that person's knowledge, information, and belief formed after a reasonable inquiry for all information within this application.



Russell L. Brown
Attorney, for Cellco Partnership, d/b/a Verizon Wireless

STATE OF INDIANA,
COUNTY OF MARION, SS:
Subscribed and sworn to before me this 10th day of July, 2024.



Notary Public

Printed Name of Notary: Elizabeth Bentz Williams
My commission expires: November 18, 2028
My County of Residence: Marion
Commission #: 0639620