

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

In the Matter of:

THE APPLICATION OF	)	
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS	)	
AND THE TOWERS, LLC D/B/A VERTICAL BRIDGE FOR	)	
ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO. 2026-00133
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 The Towers, 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 submit this Application requesting issuance of a Certificate of Public Convenience and Necessity (“CPCN”) from the Kentucky Public Service Commission (“PSC”) to construct, maintain, and operate a Wireless Communications Facility (“WCF”) to serve the customers of the Co-Applicant with wireless communications services. The Co-Applicants had previously submitted a petition (2024-00160) for this WCF, which was granted a CPCN on or about January 24, 2025 (the “Prior Order”). However, for a variety of reasons, Co-Applicants were unable to commence construction within one (1) year of the Prior Order. The pertinent details of this WCF are substantially the same as those submitted under the Application submitted for the Prior Order.

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. The Towers, LLC, d/b/a Vertical Bridge, with an address of 750 Park of Commerce Drive, Suite 200; 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 the Certificate of Assumed Name on file with the Secretary of State of Commonwealth of Kentucky and included as part of **Exhibit A**.
 - b. The Towers, LLC, d/b/a Vertical Bridge is a Delaware limited liability company and copies of the Formulation Document and the Statement of Good Standing from Delaware, and the Certificate of Authorization on file with the Secretary of State of Commonwealth of Kentucky, are included as part of **Exhibit 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 operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Co-Applicants'

granted Antenna Structure Registration (ASR Number 1333008) with the FCC is attached to this Application or described 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-Applicant's services to an area currently not served or not adequately served by the Co-Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant'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 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 Gary Mark & Danny & Pam Huber pursuant to a Deed recorded in Deed Book 299, Page 544 and Deed Bood 249, Page 714 in the office of the Taylor County Clerk. 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 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**.

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 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 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 Federal Aviation Administration's ("FAA") Determination of No Hazard is attached as **Exhibit F**.

12. A copy of the Kentucky Airport Zoning Commission (“KAZC”) review and determination that the WCF does not require a permit is attached as **Exhibit G**.

13. A geotechnical engineering report was performed at the WCF site by Power of Design Group, LLC, 11490 Bluegrass Parkway; Louisville KY 40299, 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 H** and **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. Applicant, pursuant to a written agreement, has 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. 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 Numbers 21217C0135C & 21217C0050C, both of which are 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 with screen shots of the PVA records verified and updated using the Owen County PVA on May 26, 2026. **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 26, 2026, is attached as **Exhibit L**. Thirteen (13) notices were sent to surrounding property owners; to date, eleven (11) notice green cards have been returned. One notice was unclaimed and one notice was lost in transit at the Louisville USPS facility. A second notice was sent the property owner on June 30, 2026. Copies of the mailed envelopes, returned green cards and USPS tracking are included in **Exhibit L**.

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 along with a copy of the mailed envelope and returned green card 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 has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as **Exhibit O**.

24. The area of the proposed facility is in the unincorporated area of Taylor County, Kentucky. The site is located at 601 Salem Church Road; Campbellsville KY 42718. The area is predominantly wooded characterized by large agricultural properties and smaller residential properties. The terrain is flat to rolling. There is no zoning or Plan Commission in this area of Taylor County. The proposed facility is removed from any residential structures. The nearest residential structure is 265 feet from the proposed tower site.

25. The process that was used by the Co-Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Co-Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency

design search area prepared in reference to these radio frequency studies was considered by the 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 Engineer's Statement of Need and Propagation Maps attached as **Exhibit Q** and **Exhibit R**, respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

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

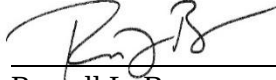
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

Russell L. Brown
Clark, Quinn, Moses, Scott & Grahm, LLP
320 North Meridian Street, Suite 1100
Indianapolis, IN 46204
Phone: (317) 637-1321
FAX: (317) 687-2344
Email: rbrown@clarkquinnlaw.com

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 & Grahm, 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 Applicant Entities
- B FCC Antenna Structure Registration
- 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, Corporations, or Persons List
And Map of Like Facilities in Vicinity
- F FAA Application and Determination of No Hazard
- G KAZC Documentation of Application
- H Geotechnical Report
- I Directions to WCF Site
- J Real Estate Agreement
- K Notification Listing with PVA Verification
- L Property Owner Notification
- M County Judge/Executive notice
- N Posted Notices
- O Newspaper Legal Notice Advertisement
- P Radio Frequency Design Search Area
- Q Copy of RF Design Engineer Statement of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification

Delaware

The First State

Page 1

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.



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

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



0641227.07

Dcornish
C226

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

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of
Verizon Wireless

[Name under which the business will be conducted]

has been adopted by See Addendum

[Real name - KRS 365.015(1)]

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

- | | |
|--|---|
| ☐ a Domestic General Partnership | ☒ a Foreign General Partnership |
| ☐ a Domestic Registered Limited Liability Partnership | ☐ a Foreign Registered Limited Liability Partnership |
| ☐ a Domestic Limited Partnership | ☐ a Foreign Limited Partnership |
| ☐ a Domestic Business Trust | ☐ a Foreign Business Trust |
| ☐ a Domestic Corporation | ☐ a Foreign Corporation |
| ☐ a Domestic Limited Liability Company | ☐ a Foreign Limited Liability Company |
| ☐ 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-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

The First State

Page 1

***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 "THE TOWERS, LLC",
FILED IN THIS OFFICE ON THE TWENTY-FOURTH DAY OF MARCH, A.D.
2023, AT 11:34 O`CLOCK A.M.***


Jeffrey W. Bullock, Secretary of State

7370717 8100
SR# 20231132833

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

Authentication: 203008264
Date: 03-27-23

State of Delaware
Secretary of State
Division of Corporations
Delivered 11:34 AM 03/24/2023
FILED 11:34 AM 03/24/2023
SR 20231132833 - File Number 7370717

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 _____
THE TOWERS, 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.

By: _____ /s/ Daniel Marinberg
Authorized Person

Name: _____ Daniel Marinberg
Print or Type

1343772.06

mmoore
ADD

Michael G. Adams
 Kentucky Secretary of State
 Received and Filed:
 2/22/2024 11:15 AM
 Fee Receipt: \$90.00



COMMONWEALTH OF KENTUCKY
 MICHAEL G. ADAMS, SECRETARY OF STATE

Division of Business Filings
 P.O. Box 718
 Frankfort, KY 40602
 (502) 564-3490
www.sos.kv.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: ☐ profit corporation ☐ nonprofit corporation ☐ professional limited liability company
☐ business trust ☒ limited liability company ☐ statutory trust
☐ limited partnership ☐ ltd cooperative association ☐ public benefit corporation
☐ non-profit llc ☐ professional service corporation ☐ other

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

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

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

5. The date of organization is 03/24/2023 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 DR, STE 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):

Name	Street or P.O. Box	City	State	Zip Code
Ron Bizick	750 Park of Commerce Dr Ste 2	Boca Raton	FL	33487
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 of Authorized Representative Ron Bizick, CEO 02/05/2024
 Printed Name & Title Date

I, Cogency Global Inc., consent to serve as the registered agent on behalf of the business entity.
 Type/Print Name of Registered Agent

Joelle Churik Joelle Churik Asst. Secretary 02/06/2024
 Signature of Registered Agent Printed Name Title Date

Commonwealth of Kentucky
Michael G. Adams, Secretary of State

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

Certificate of Authorization

Authentication number: 307364

Visit <https://web.sos.ky.gov/fts/certvalidate.aspx> to authenticate this certificate.

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

THE TOWERS, LLC

, a limited liability company authorized under the laws of the state of Florida, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 22, 2024.

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

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 18th day of March, 2024, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
307364/1343772



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
ANTENNA STRUCTURE REGISTRATION



OWNER: The Towers, LLC

FCC Registration Number (FRN): 0033815929

ATTN: Richard Hickey The Towers, LLC 22 W Atlantic Ave Suite 310 DELRAY BEACH, FL 33444 Location of Antenna Structure 379 SALEM CHURCH RD (JH) KY-5182 CAMBELLSVILLE, KY 42718 County: TAYLOR			Antenna Structure Registration Number 1333008
			Issue Date 03/23/2026
			Ground Elevation (AMSL) 249.0 meters
			Overall Height Above Ground (AGL) 57.9 meters
Latitude 37- 22- 13.4 N	Longitude 085- 23- 10.7 W	NAD83	Overall Height Above Mean Sea Level (AMSL) 306.9 meters
Center of Array Coordinates N/A			Type of Structure MTOWER Monopole
Painting and Lighting Requirements: FAA Chapters NONE			
Conditions: See the Finding Of No Significant Impact (FONSI) document for conditions.			

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

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

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

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

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

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

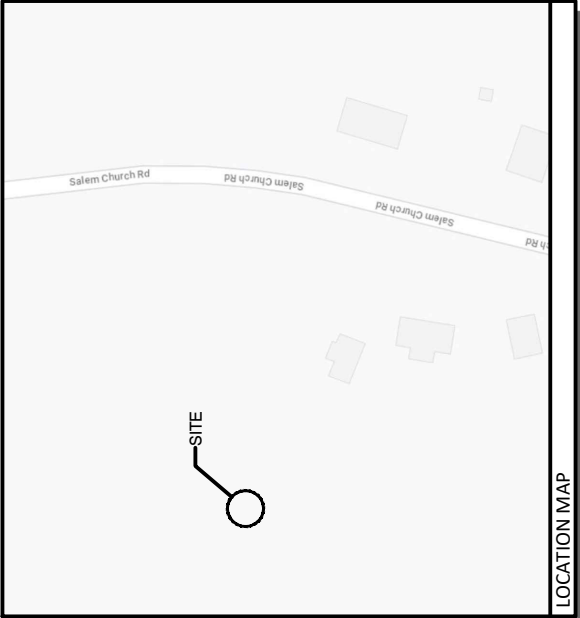


NEW 180'-0" MONOPOLE w/10' LIGHTNING ROD
TOTAL TOWER HEIGHT 190'-0"

VERTICAL BRIDGE VBTS, LLC SITE		POLICE
FAIRWAY		TAYLOR COUNTY SHERIFF
SITE #: US-KY-5182		203 N COURT ST #1
VERIZON SITE		CAMPBELLSVILLE, KY 42718
CK FAIRWAY		PHONE: (270) 465-4351
FUZE ID: 16985020		FIRE
LOCATION ID: 5000917843		TAYLOR COUNTY FIRE RESCUE
SITE ADDRESS		1563 GREENSBURG RD
601 SALEM CHURCH ROAD		CAMPBELLSVILLE, KY 42718
CAMPBELLSVILLE, KY 42718		PHONE: (270) 937-4020
TAYLOR COUNTY		GENERAL INFORMATION
E911 ADDRESS: TBD		LATITUDE : 37.370404° N
TOWER OWNER		LONGITUDE : 85.386322° W
VERTICAL BRIDGE VBTS, LLC		1983 (NAD83)
750 PARK OF COMMERCE DRIVE		ELEVATION : 817± AMSL
SUITE 200		1988 (NAVD88)
BOCA RATON, FL 33487		TOWER OWNER LEASE AREA
CONTACT: ROBERT RODRIGUEZ		100'-0" x 100'-0"
MOBILE: (561) 596-9780		(10,000 SF)
E-MAIL: ROBERT.RODRIGUEZ@VERTICALBRIDGE.COM		VERIZON LEASE AREA
500SF		
TENANT		
VERIZON		
250 E 96TH ST, SUITE 300		
INDIANAPOLIS, IN 46240		
CONTACT: DAVID ELKE		
PHONE: (224) 856-8101		
E-MAIL: DAVID.ELKE@VERIZONWIRELESS.COM		
LAND OWNER		
PARCEL ID: 25-005-01		
CONTACT: MARK GRAY		
PHONE: (270) 465-1960		
PROJECT SUMMARY		



PROJECT DESCRIPTION	
NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS VZW GC WHICH SHALL INCLUDE VERIZON 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 FOUNDATION SYSTEM • INSTALL A NEW 75'X25' FENCED GRAVEL COMPOUND • INSTALL A 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 12" VZW 120V/240V SERVICE GROUNDING SYSTEM • INSTALL NEW VZW CONCRETE FOUNDATIONS, GENERATOR, AND LP TANK PADS • INSTALL ALL ICE BRIDGE AND ICE BRIDGE FOUNDATIONS • INSTALL VZW EQUIPMENT H-FRAME AND FOUNDATIONS • INSTALL VZW ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP TO UTILITY H-FRAME • INSTALL (1) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH INTEGRAL (3) 1-1/4" INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON ONLY" 24"x36" HANDHOLE OUTSIDE COMPOUND THEN TO NEW "VERIZON ONLY" 24"x36" HANDHOLE AT ROW • INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC STUB-UP LOCATION TO THE GENERATOR • 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 EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES • INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE • INSTALL NEW CIRCUITS FROM VZW ILC ENCLOSURE TO EQUIPMENT ENCLOSURES AT VZW EQUIPMENT PAD • INSTALL NEW OUTDOOR OVPs AND CABLING ON VERIZON EQUIPMENT H-FRAME • INSTALL NEW 12" VZW 120V/240V SERVICE GROUNDING SYSTEM • INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR • INSTALL LP TANK ON EXISTING CONCRETE PAD	



FAIRWAY

US-KY-5182

601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

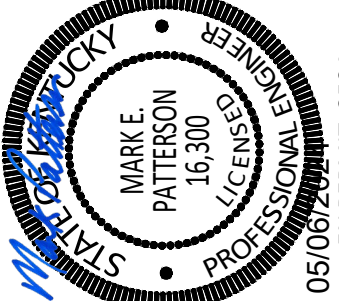
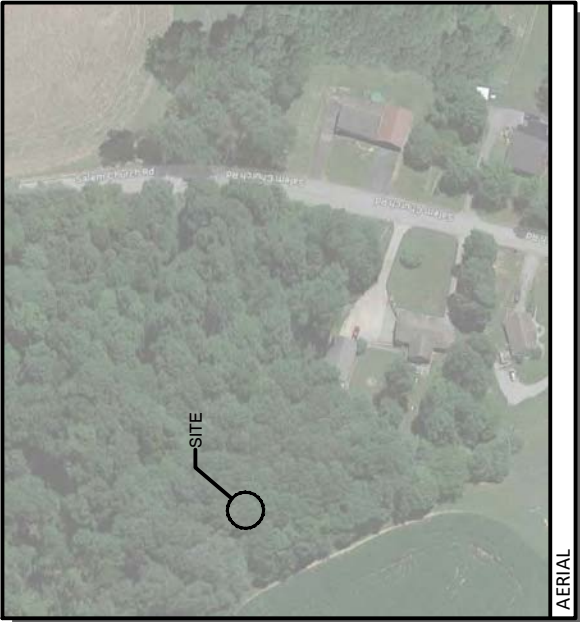
TENANT: CELCO PARTNERSHIP d/b/a VERIZON
"CK FAIRWAY"

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: 244.1 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 (12.0 MI). CONTINUE ONTO TAYLORSVILLE LAKE RD (4.6 MI). TURN LEFT ONTO KY-55 S (15.5 MI). TURN LEFT ONTO BARDSTOWN RD (335 FT). TURN RIGHT ONTO KY-55 S/STATE HWY 55 (12.0 MI). CONTINUE TO FOLLOW KY-55 S/STATE HWY 55 (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.

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.	
BUILDING CODE	2018 KENTUCKY BUILDING CODE (IBC 2015)
STRUCTURAL CODE	TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)
MECHANICAL CODE	2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE	2015 INTERNATIONAL FIRE CODE (2015 IFC)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE	2012 NATIONAL FUEL GAS CODE (NFPA 54)
ACCESSIBILITY REQUIREMENTS: FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.	
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.	
SURVEYOR	
POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252	
ARCHITECTURAL	
POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252	

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, & SHEET INDEX
B-1 TO B-1.2	SITE SURVEY
B-2	500' RADIUS AND ABUTTERS MAP
R-1	REVISION LOG
CIVIL	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/DISTANCES TO PROPERTY LINES
C-1B	TOWER DISTANCE TO RESIDENTIAL STRUCTURE
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN
TOWER ELEVATION	
TE-1	TOWER ELEVATION



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

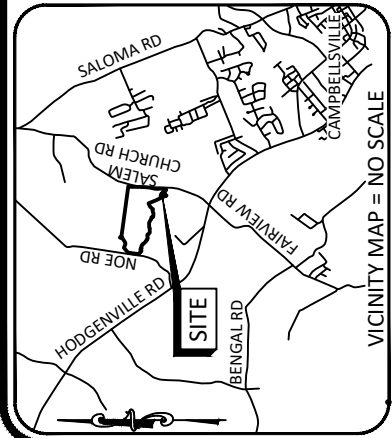
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

PROJECT
INFORMATION, SITE
MAPS, & SHEET
INDEX

SHEET NUMBER:

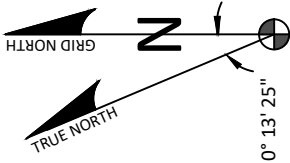
T-1



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" S 08°59'
W 166.31± FROM THE SOUTHEAST
CORNER OF THE LEASE AREA

VICINITY MAP = NO SCALE



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

LEGEND

- | | | |
|--|-------------------------------|-----------------------|
| | S.F. | SQUARE FEET |
| | EOP | EDGE OF PAVEMENT |
| | P.O.C. | POINT OF COMMENCEMENT |
| | P.O.B. | POINT OF BEGINNING |
| | FOUND MONUMENT AS NOTED | |
| | SET 1/2" REBAR, 18" LONG | |
| | WITH A YELLOW PLASTIC CAP | |
| | STAMPED "PATTERSON KY PL3136" | |
| | 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 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.

Max Patterson

MARK PATTERSON, PLS #3136

05/07/2026

DATE

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: 25-006
PATSY WALTERS
DEED BOOK 346, PAGE 367

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



- GLOBAL POSITIONING SYSTEMS NOTE**
1. RANDOM CONTROL POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
 2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYTC 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.
 3. SPECTRA PRECISION SP85 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



THE TOWERS, LLC
750 PARK OF COMMERCE DRIVE
BOCA RATON, FLORIDA 33487
(561) 948-6367

PREPARED FOR:

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
2	5.7.26	UPDATE ADJOINERS

SITE INFORMATION:

FAIRWAY

799 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

TAX PARCEL NUMBER:
25-005-01

PROPERTY OWNERS:
MARK D. GRAY (50%)
80 CAMELOT DR.

CAMPBELLSVILLE, KY 42718
SOURCE OF TITLE:
DEED BOOK 299, PAGE 544

DANNY & PAM HUBER (50%)
104 LANDON 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

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 SOUTHMOST 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 CHARLES DUNLAP, JOSEPH DUNLAP & SKYLER DUNLAP NEWCOMB AS RECORDED IN DEED BOOK 356, PAGE 757, PARCEL ID: 25-005-01-01, ALSO BEING IN THE EAST LINE OF THE PROPERTY CONVEYED TO PATSY WALTERS AS RECORDED IN DEED BOOK 346, PAGE 367; THENCE LEAVING THE SOUTHWEST CORNER OF SAID LYONS AND LEAVING THE NORTHWEST CORNER OF SAID DUNLAP, AND LEAVING THE EAST LINE OF SAID WALTERS, AND LEAVING THE SOUTHMOST 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 KY PLS3136", HEREFTER 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 SOUTHMOST 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 CHARLES DUNLAP, JOSEPH DUNLAP & SKYLER DUNLAP NEWCOMB AS RECORDED IN DEED BOOK 356, PAGE 757, PARCEL ID: 25-005-01-01, ALSO BEING IN THE EAST LINE OF THE PROPERTY CONVEYED TO PATSY WALTERS AS RECORDED IN DEED BOOK 346, PAGE 367; THENCE LEAVING THE SOUTHWEST CORNER OF SAID LYONS AND LEAVING THE NORTHWEST CORNER OF SAID DUNLAP, AND LEAVING THE EAST LINE OF SAID WALTERS, AND LEAVING THE SOUTHMOST 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 KY PLS3136", HEREFTER 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 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 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 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.

Max Patterson

05/07/2026

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, ATTACHES, 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 GRANTEES, 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-B (PAGE) 11, IN TAYLOR COUNTY, KENTUCKY. (MATTERS AS SHOWN ON SURVEY AS RECORDED IN BOOK PC-B, PAGE 11, APPLIES AND AFFECTS THE PARENT PARCEL, BUT NOT THE LEASE AREA OR THE 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT.)

PREPARED BY:

POD

POWER OF DESIGN

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

PREPARED FOR:

verticalbridge

THE TOWERS, LLC

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

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
2	5.7.26	UPDATE ADJOINERS

SITE INFORMATION:

FAIRWAY

799 SALEM CHURCH ROAD
CAMPBELLVILLE, KY 42718
TAYLOR COUNTY

TAX PARCEL NUMBER:
25-005-01

PROPERTY OWNERS:
MARK D. GRAY (50%)
80 CAMELOT DR.
CAMPBELLVILLE, KY 42718
SOURCE OF TITLE:
DEED BOOK 299, PAGE 544
DANNY & PAM HUBER (50%)
104 LANDON 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-1.1

LEGAL DESCRIPTION, PARCEL NO. 25-005-01, DEED BOOK 299, PAGE 544 & DEED BOOK 249, PAGE 714 (NOT FIELD SURVEYED)

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.

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 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.

05/07/2026

Max Patterson

MARK PATTERSON, PLS #3136

DATE

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. MARRS AND RHONDA K. MARRS 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. MARRS AND RHONDA K. MARRS, 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.



PREPARED BY:



THE TOWERS, LLC
750 PARK OF COMMERCE DRIVE
BOCA RATON, FLORIDA 334487

PREPARED FOR:

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
2	5.7.26 UPDATE ADJOINERS

SITE INFORMATION:

FAIRWAY

799 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

TAX PARCEL NUMBER:
25-005-01

PROPERTY OWNERS:
MARK D. GRAY (50%)
80 CAMELOT DR.

CAMPBELLSVILLE, KY 42718
SOURCE OF TITLE:

DEED BOOK 299, PAGE 544
DANNY & PAM HUBER (50%)
104 LANDON 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

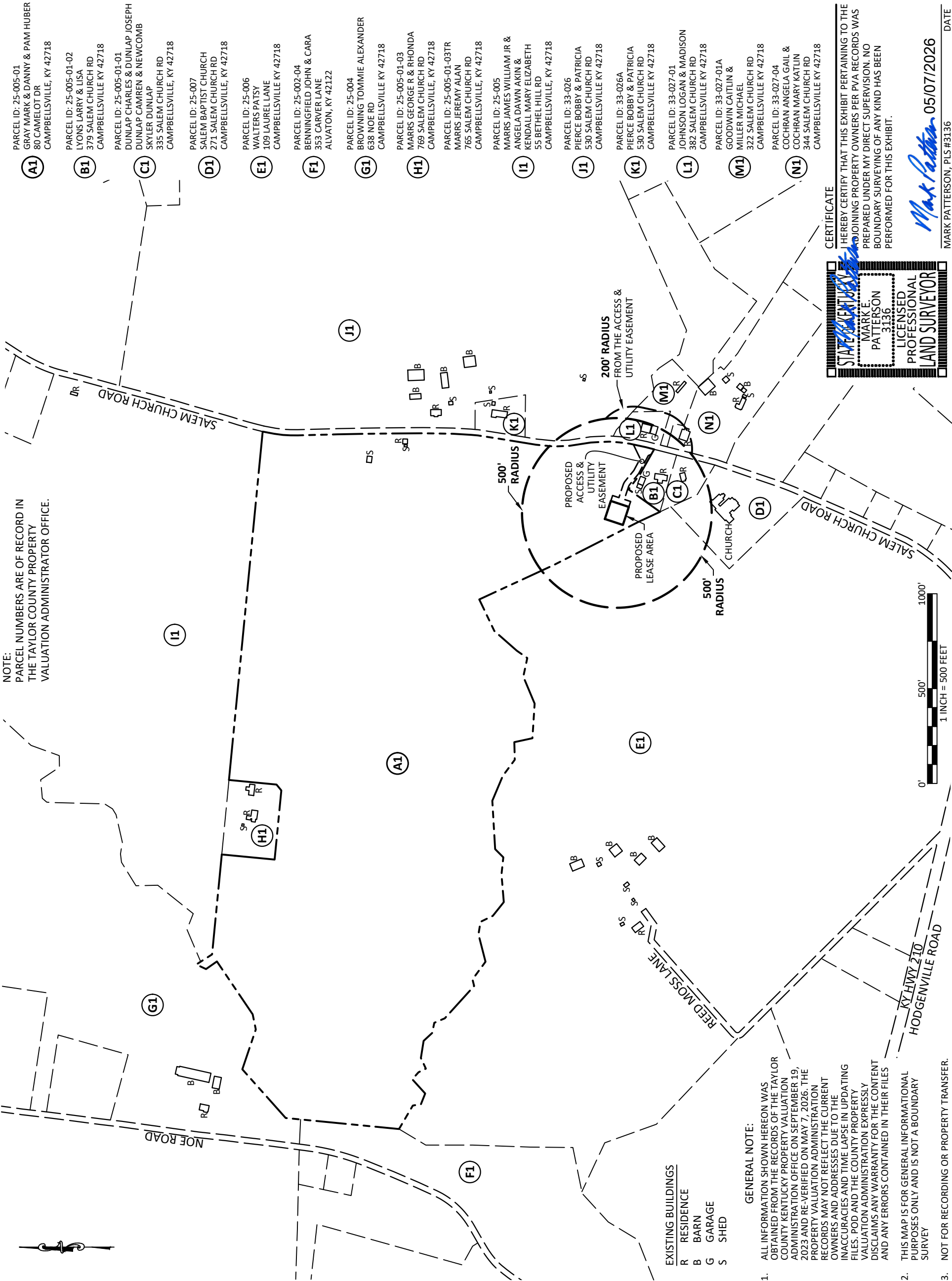
SHEET TITLE:

SITE SURVEY

THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER: (3 pages)

B-1.2



POD

POWER OF DESIGN

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

PREPARED BY:

verticalbridge

THE TOWERS, LLC
750 PARK OF COMMERCE DRIVE
BOCA RATON, FLORIDA 334487
(561) 948-6367

PREPARED FOR:

REVISIONS		
REV	DATE	DESCRIPTION
A	11.29.23	ISSUED FOR REVIEW
O	2.15.24	ISSUED AS FINAL
1	5.7.26	UPDATE ADJOINERS

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

TAX PARCEL NUMBER:
25-005-01

PROPERTY OWNERS:
MARK D. GRAY (50%)
80 CAMELOT DR.
CAMPBELLSVILLE, KY 42718

SOURCE OF TITLE:
DEED BOOK 299, PAGE 544
DANNY & PAM HUBER (50%)
104 LANDON 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

CERTIFICATE

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED PROFESSIONAL
LAND SURVEYOR

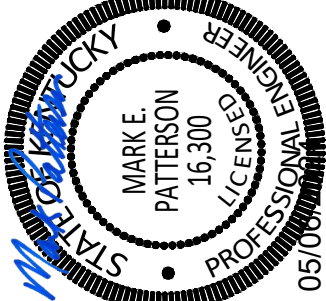
HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE
ADJOINING PROPERTY OWNERS PER PVA RECORDS WAS
PREPARED UNDER MY DIRECT SUPERVISION. NO
BOUNDARY SURVEYING OF ANY KIND HAS BEEN
PERFORMED FOR THIS EXHIBIT.

Mark E. Patterson 05/07/2026

DATE
MARK PATTERSON, PLS #3136

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
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

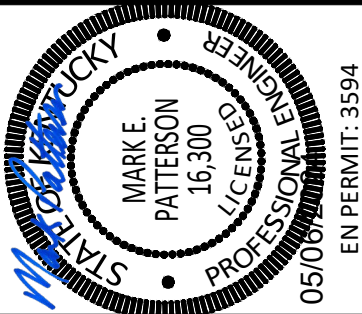
POD NUMBER:	23-158649
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	2.1.2024

SHEET TITLE:

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: _____
 CHECKED BY: _____
 DATE: _____

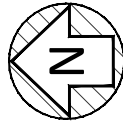
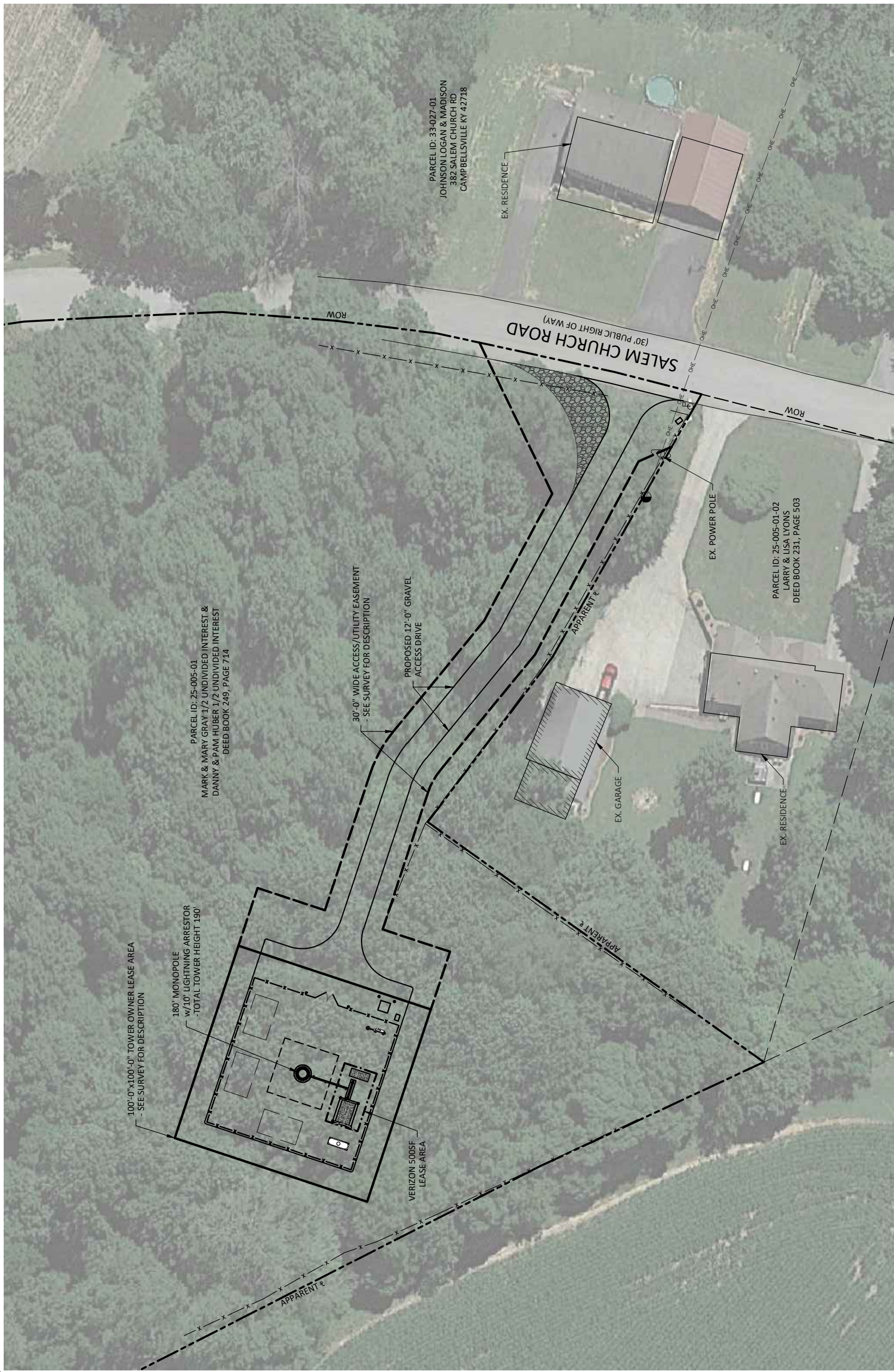
POD
 MEP
 2.1.20

SHEET TITLE:

OVERALL SITE PLAN
W/AERIAL OVERLAY

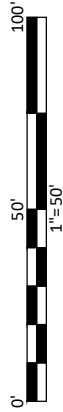
SHEET NUMBER:

51

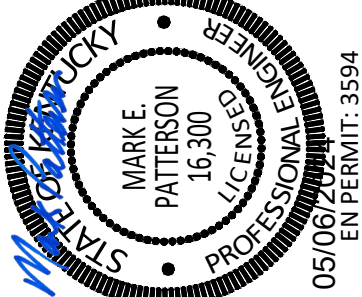


OVERALL SITE PLAN W/AERIAL OVERLAY

SCALE: 1" = 50'



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



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 55X65 TO 75X75

SITE INFORMATION:

FAIRWAY

601 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

VERTICAL BRIDGE SITE NUMBER:
US-KY-5182

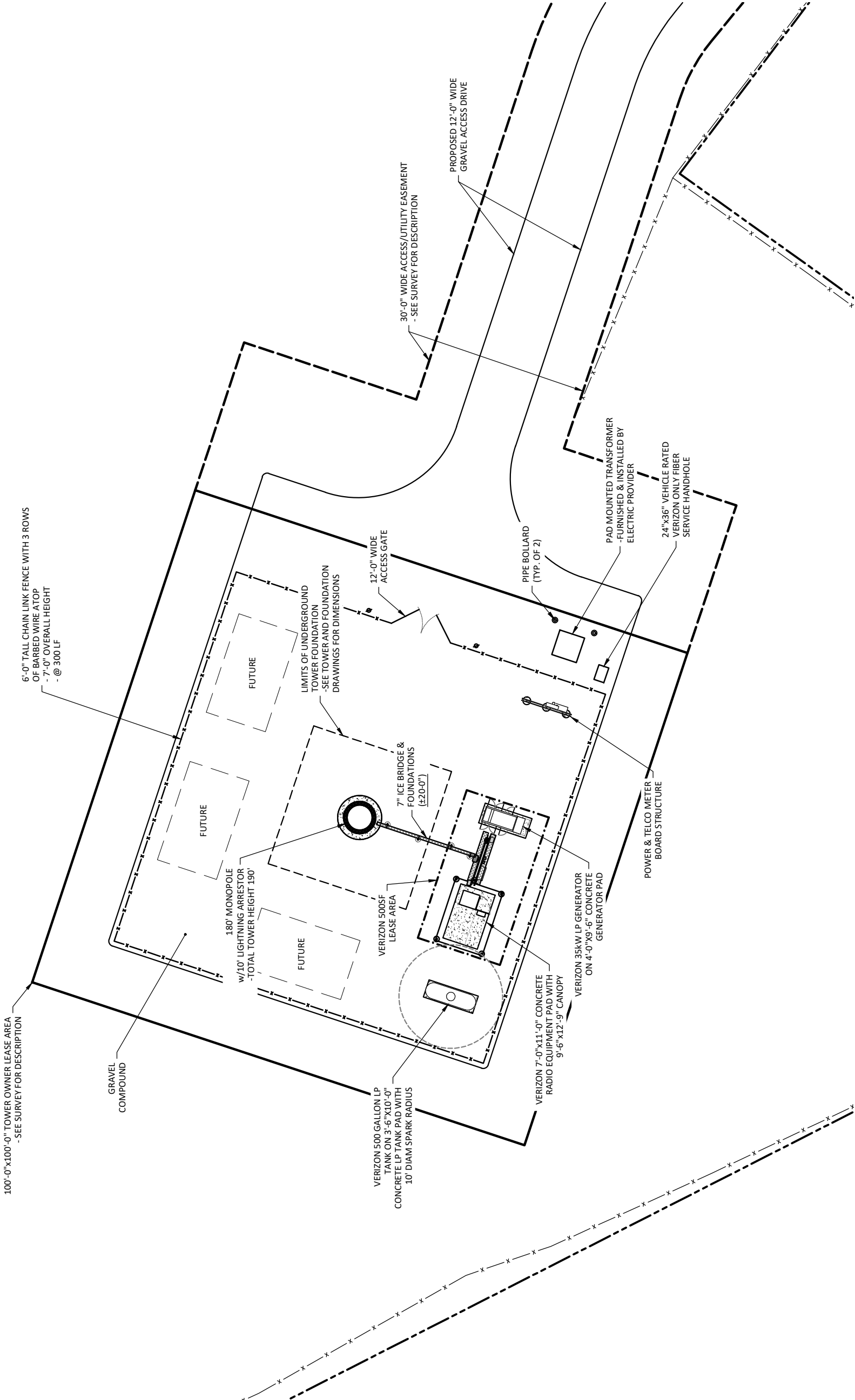
POD NUMBER: 23-158649
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

DETAILED SITE PLAN

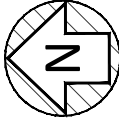
SHEET NUMBER:

C-3



LEGEND

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



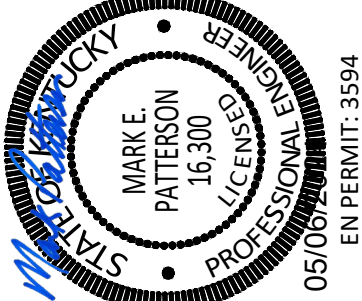
DETAILED SITE PLAN

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



Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
COMMONWEALTH OF KENTUCKY (800-752-6007)
WORKING DAYS BEFORE COMMENCING WORK.



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

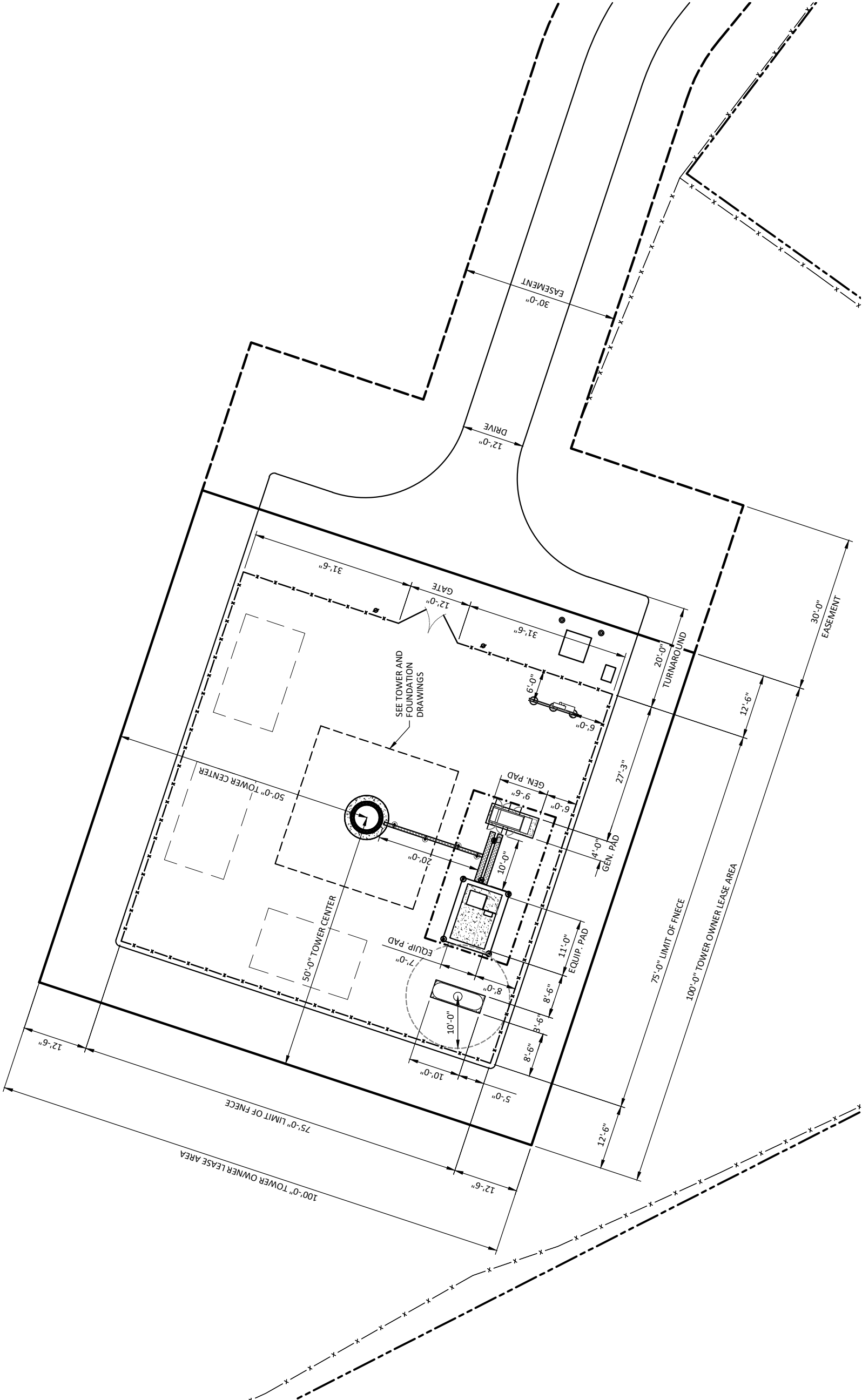
DRAWN BY: POD
CHECKED BY: MEP
DATE: 2.1.2024

SHEET TITLE:

DIMENSIONED SITE
PLAN

SHEET NUMBER:

C-4



LEGEND

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



DIMENSIONED SITE PLAN

SCALE: 1" = 20'

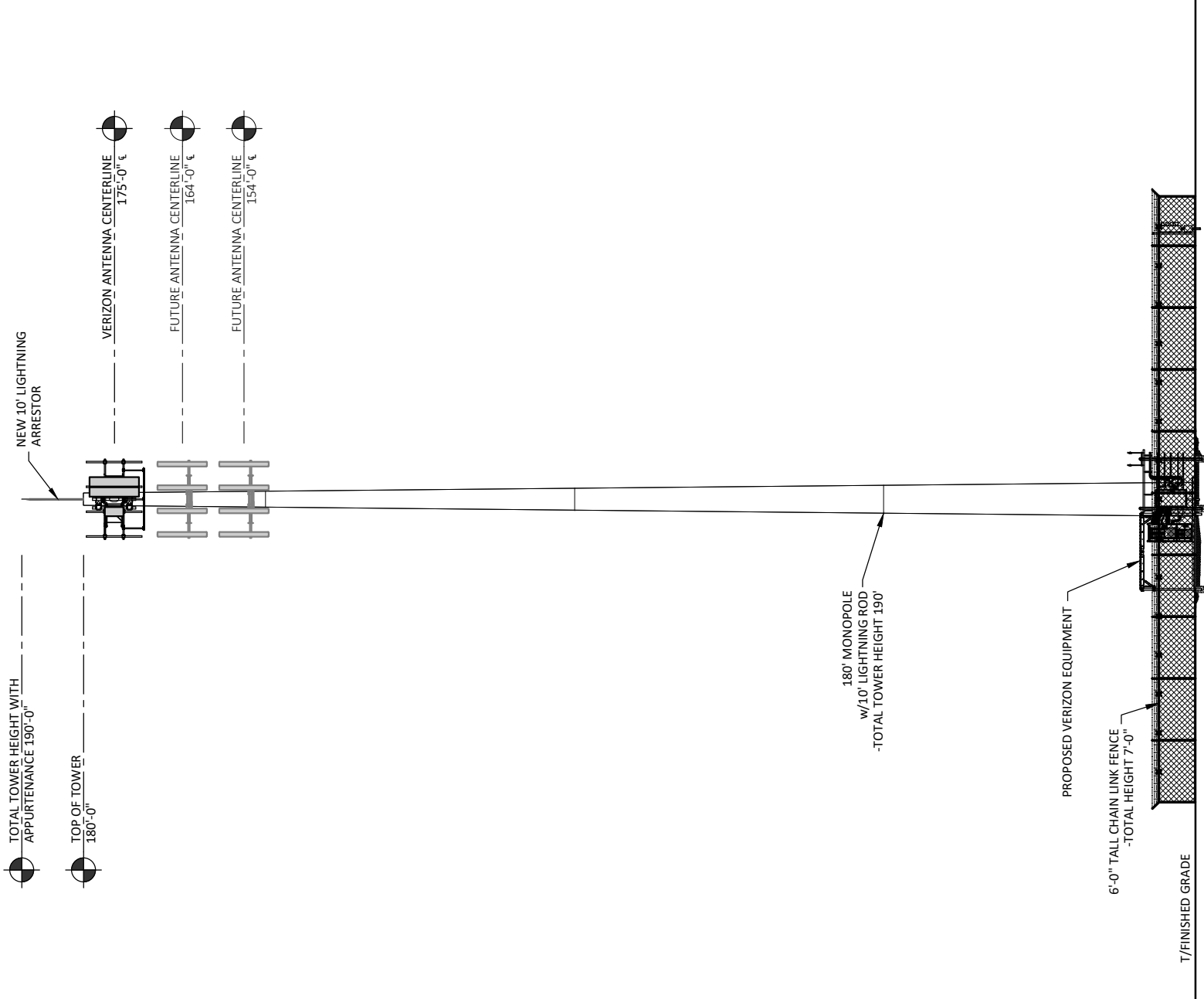
*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO
DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE
OF THE STAKED LEASE AREA WITHOUT APPROVAL
FROM VERIZON CONSTRUCTION MANAGER



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

NOTE:

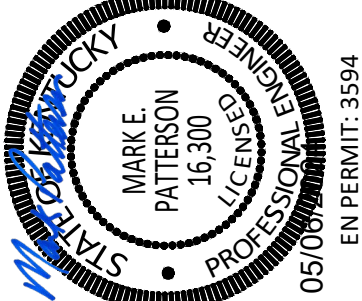
1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP d/b/a VERIZON (VZW GC)



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



COAX PLAN
SCALE: N.T.S.



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 55X65 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:

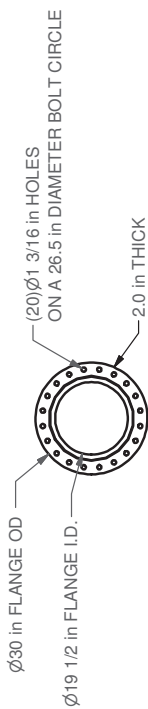
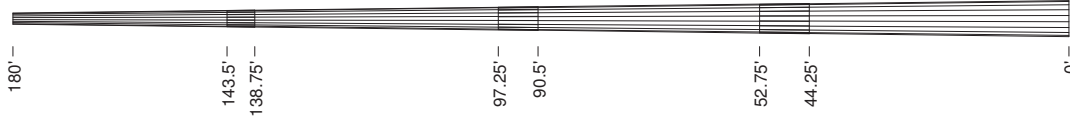
TOWER ELEVATION

SHEET NUMBER:

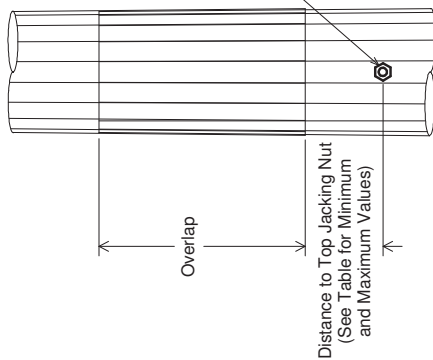
TE-1

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			



TOP FLANGE DETAIL



BASE FLANGE DETAIL

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."

Pole Splice Detail

DESCRIPTION

REV BY DATE



TITLE:

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

COPYRIGHT NOTICE:
This drawing is the property of Nello Inc. It is not to be reproduced, copied or traced in whole or in part without our written consent.

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



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

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

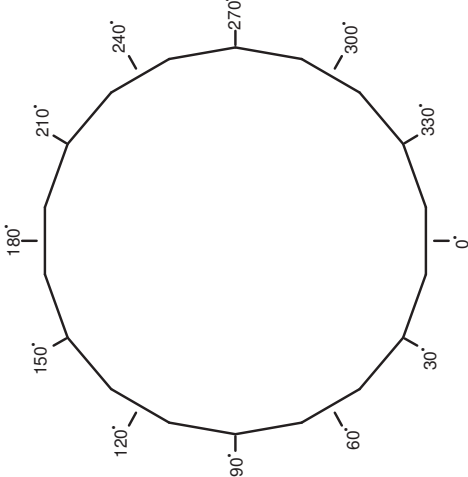
Height	Qty.	Description
175'	1	42,000 sq in CaAa
164'	1	30,000 sq in CaAa
154'	1	30,000 sq in CaAa
125'	2	Dish Pipe Mount
125'	1	Clamp Ring Assembly

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

COPYRIGHT NOTICE:
This drawing is the property of
Nello Inc. It is not to be reproduced,
copied or traced in whole or in part
without our written consent.

DESCRIPTION

DATE

REV

BY

DATE

TITLE:

The Towers, LLC

NTP 74" X 180'

US-KY-5182 / Fairway

Taylor Co., KY

ORIG. DATE: 4/24/2024

DWG NO: 661441

DWG. PROG: v2.05

SHEET: 2 OF 4

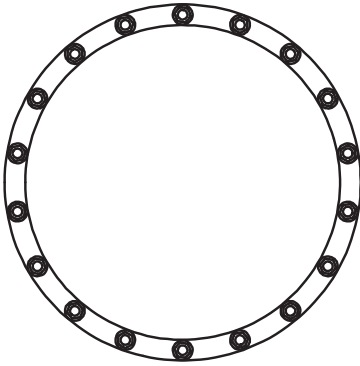


04/26/2024



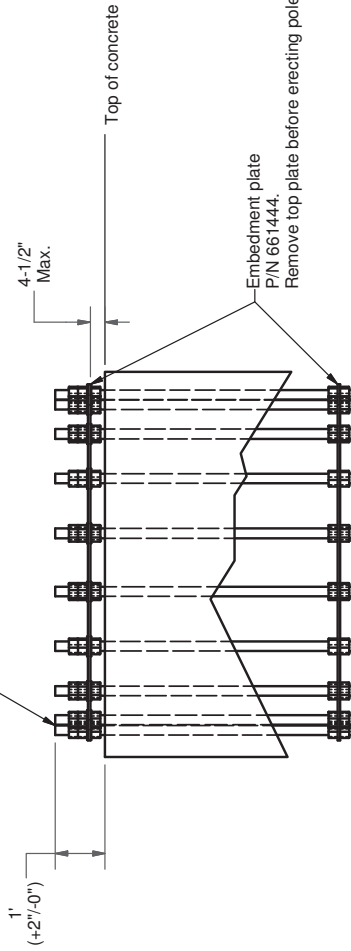
N E L L O

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



PLAN VIEW

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



ANCHOR BOLT DETAIL

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



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

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

COPYRIGHT NOTICE: This drawing is the property of Nello Inc. It is not to be reproduced, copied or traced in whole or in part without our written consent.		ORIG. DATE: 4/24/2024	DWG NO: 661441
		DWG. PROG: V2.05	SHEET: 3 OF 4

REV	BY	DATE	DESCRIPTION

1. Tower is designed per TIA-222-H, "Structural Standard for Antenna Supporting Structures, Annennas and Small Wind Turbine Support Structures." for the following loading conditions:

1. Tower is designed per TIA-222-H, "Structural Standard for Antenna Supporting Structures, Antennas 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 appendurance loading tables on sheet 2.
4. Antenna mounting pipes may need to be field cut to match the lengths listed in the appendurance 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 Porthole 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 design length 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.

REV	BY	DATE	COPYRIGHT NOTICE: This drawing is the property of Nello Inc. It is not to be reproduced, copied or traced in whole or in part without our written consent.	ORIG. DATE: 4/24/2024	DWG NO: 661441
				DWG. PROG: v2.05	SHEET: 4 OF 4



04/26/2024

TITLE:

The Towers. LLC

NTP 74" X 180'

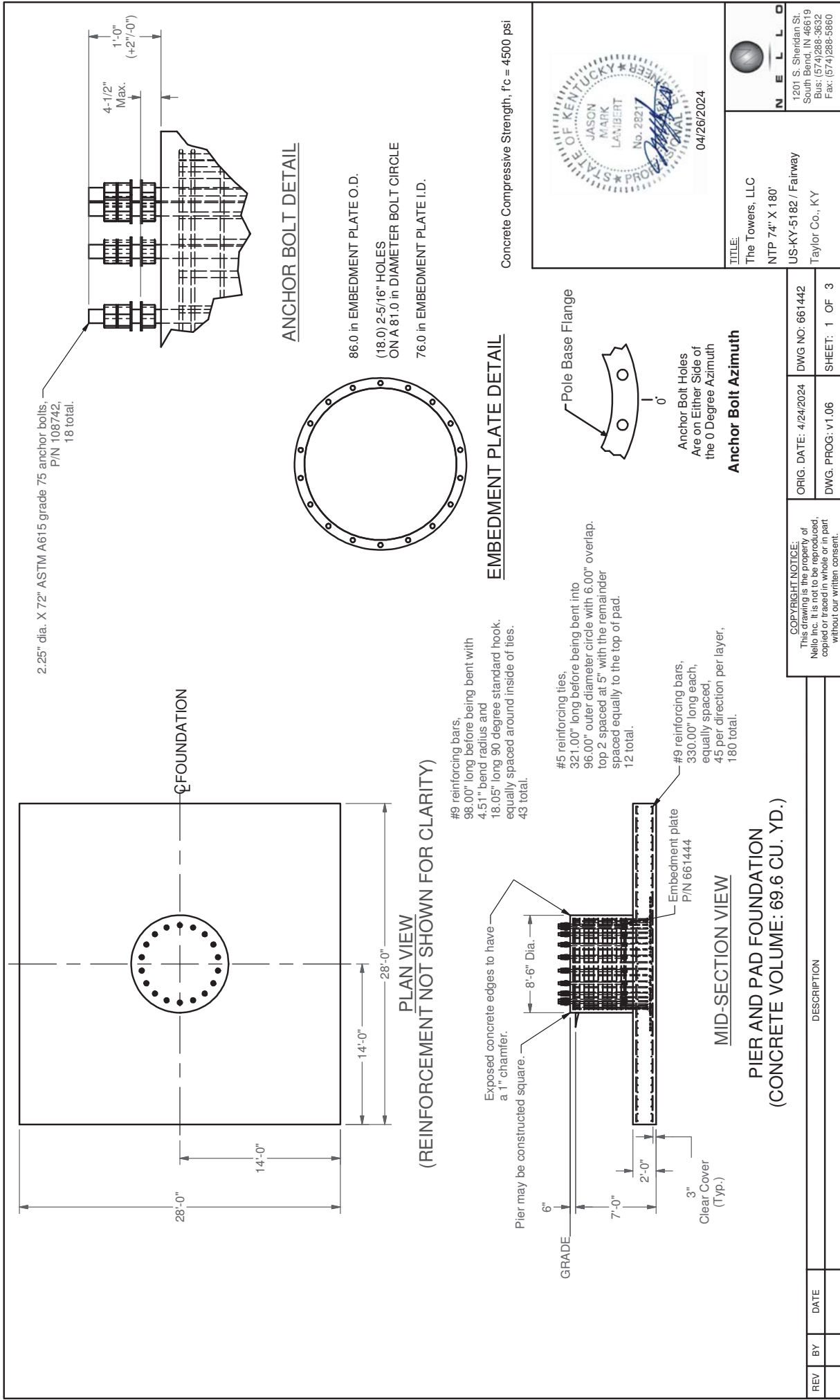
US-KY-5182 / Fairway

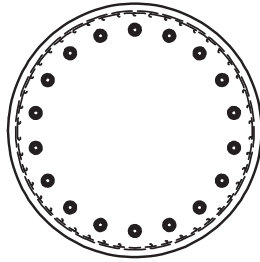
Taylor Co., KY



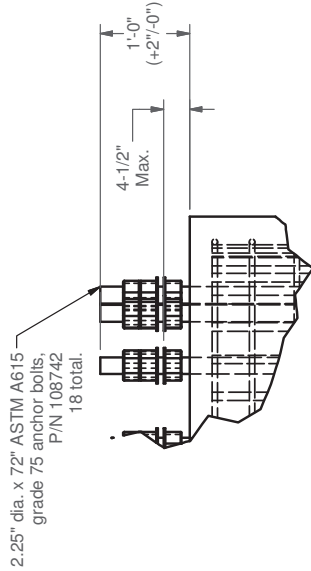
0 1 1 0
N E L O

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

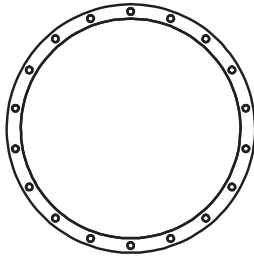




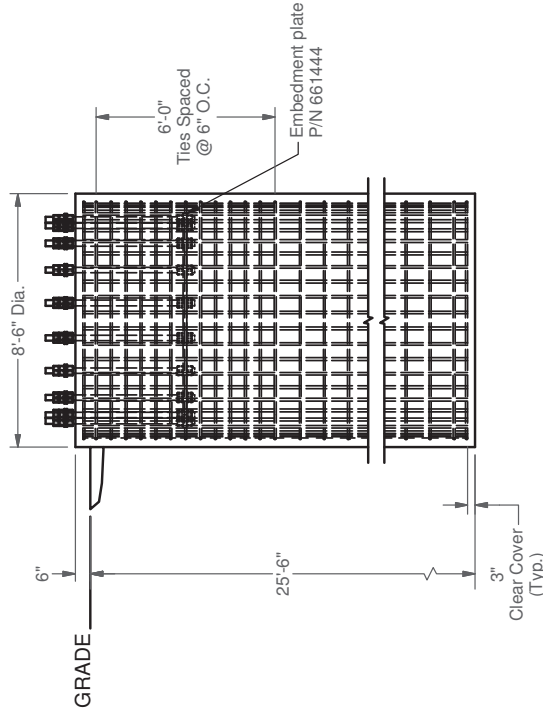
PLAN VIEW



ANCHOR BOLT DETAIL



EMBEDMENT PLATE DETAIL



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

Concrete Compressive Strength, $f'_c = 4500$ psi

#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.



COPYRIGHT NOTICE: This drawing is the property of Nello Inc. It is not to be reproduced, copied or traced in whole or in part without our written consent.	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		1201 S. Sheridan St. South Bend, IN 46619 Bus: (574)288-3632 Fax: (574)288-5860

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.



04/26/2024

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

COPYRIGHT NOTICE:
This drawing is the property of
Nello Inc. It is not to be reproduced,
copied or traced in whole or in part
without our written consent.

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

DESCRIPTION

REV BY DATE



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	5	4	3	2	1
Length (ft)	52.75	53.00	53.00	41.25	15.00
Number of Sides	18	18	18	18	18
Thickness (in)	0.4375	0.3750	0.3125	0.2500	0.1875
Socket Length (ft)		8.50	6.75	4.75	
Top Dia (in)	58.3021	45.8579	32.7698	22.4475	18.0000
Bot Dia (in)	73.9425	61.5724	48.4843	34.6781	22.4475
Grade			A572-65		
Weight (lb)	42675.4	12594.9	7932.7	3468.8	669.5

195.0 ft

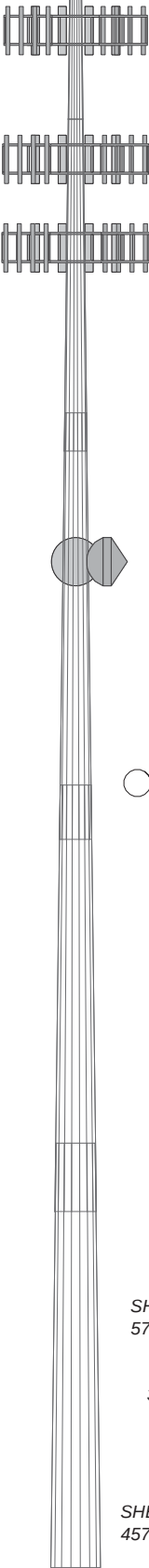
180.0 ft

138.8 ft

90.5 ft

44.3 ft

0.0 ft



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

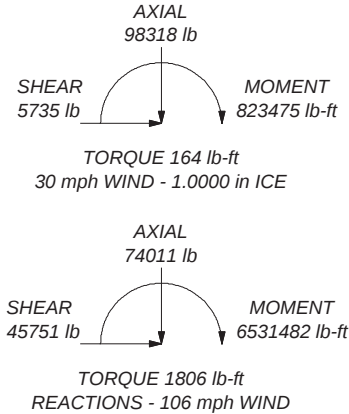
MATERIAL STRENGTH

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

TOWER DESIGN NOTES

- Tower designed for Exposure C to the TIA-222-H Standard.
- Tower designed for a 106 mph ultimate wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 30 mph basic wind with 1.00 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 60 mph wind.
- Tower Risk Category II.
- Topographic Category 1 with Crest Height of 0.00 ft
- 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 Code: TIA-222-H Path: N:\eri\6614\661441.future.eri	Drawn by: AG Date: 04/26/24	App'd: Scale: NTS 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

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

Tapered Pole Section Geometry

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	2 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	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	Gusset Area (per face)	Gusset Thickness	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
ft	ft ²	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	3 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

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		$C_A A_A$ ft ² /ft	Weight plf
LDF7-50A (1-5/8 FOAM)	A	No	Yes	Inside Pole	191.00 - 0.00	12	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
LDF7-50A (1-5/8 FOAM)	C	No	Yes	Inside Pole	175.00 - 0.00	18	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
LDF7-50A (1-5/8 FOAM)	B	No	Yes	Inside Pole	164.00 - 0.00	12	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.82 0.82 0.82
EW63	C	No	Yes	Inside Pole	125.00 - 0.00	2	No Ice 1/2" Ice 1" Ice	0.00 0.00 0.00	0.51 0.51 0.51

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	$C_A A_A$ In Face ft ²	$C_A A_A$ Out Face ft ²	Weight lb
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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	4 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 Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight lb
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 _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb
30,000 sq in CaAa	A	None		0.0000	191.00	No Ice	208.00	3536.00
						1/2" Ice	250.00	4738.00
						1" Ice	292.00	5940.00
42,000 sq in CaAa	C	None		0.0000	175.00	No Ice	292.00	4964.00
						1/2" Ice	350.00	6652.00
						1" Ice	408.00	8340.00
30,000 sq in CaAa	B	None		0.0000	164.00	No Ice	208.00	3536.00
						1/2" Ice	250.00	4738.00
						1" Ice	292.00	5940.00
Dish Pipe Mount	B	From Leg	0.00 0.00 0.00	0.0000	125.00	No Ice	0.00	103.00
						1/2" Ice	0.00	119.00
						1" Ice	0.00	135.00
Dish Pipe Mount	A	From Leg	0.00 0.00 0.00	0.0000	125.00	No Ice	0.00	103.00
						1/2" Ice	0.00	119.00
						1" Ice	0.00	135.00
Clamp Ring Assembly	A	None		0.0000	125.00	No Ice	0.01	231.00
						1/2" Ice	0.01	340.25
						1" Ice	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
-------------	-------------	-----------	-------------	---	-------------------------	----------------------	-----------------	------------------------	----------------------------------	--------------

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	5 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

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 1/2" Ice 29.07 1" Ice 29.86	162.00 321.00 480.00
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 1/2" Ice 29.07 1" Ice 29.86	162.00 321.00 480.00

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 _A A _A In Face ft ²	C _A A _A Out Face 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 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 _A A _A In Face ft ²	C _A A _A Out Face 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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	6 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 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 ft ²	C _A A _A Out Face ft ²
ft	ft		psf	in	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 _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	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		

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	7 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 Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
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 psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
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	Page
	SO31895; Tower 661441; Foundation 661442	8 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 Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
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	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
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	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
L1	108.24	1141.11	A	1	1.2	3	1	1	28.607	119.37	7.96	C

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	9 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 Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
195.00-180.00			B	1	1.2		1	1	28.607			
			C	1	1.2		1	1	28.607			
L2	1189.41	5239.38	A	1	1.2	3	1	1	107.608	433.05	10.50	C
180.00-138.75			B	1	1.2		1	1	107.608			
			C	1	1.2		1	1	107.608			
L3	1696.92	10794.16	A	1	1.2	3	1	1	177.655	666.22	13.81	C
138.75-90.50			B	1	1.2		1	1	177.655			
			C	1	1.2		1	1	177.655			
L4	1640.03	16012.67	A	1	1.2	3	1	1	222.186	743.51	16.08	C
90.50-44.25			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	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
L1	108.24	669.49	A	1	0.73	11	1	1	25.634	232.88	15.53	C
195.00-180.00			B	1	0.73		1	1	25.634			
			C	1	0.73		1	1	25.634			
L2	1189.41	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
180.00-138.75			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L3	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
138.75-90.50			B	1	0.73		1	1	168.556			
			C	1	0.73		1	1	168.556			
L4	1640.03	12594.94	A	1	0.73	9	1	1	213.914	1558.49	33.70	C
90.50-44.25			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	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
L1	108.24	669.49	A	1	0.73	11	1	1	25.634	232.88	15.53	C
195.00-180.00			B	1	0.73		1	1	25.634			

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	10 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 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			
L3 138.75-90.50	1696.92	7932.72	C	1	0.73	10	1	1	99.567	1376.20	28.52	C
			A	1	0.73		1	1	168.556			
			B	1	0.73		1	1	168.556			
L4 90.50-44.25	1640.03	12594.94	C	1	0.73	9	1	1	168.556	1558.49	33.70	C
			A	1	0.73		1	1	213.914			
			B	1	0.73		1	1	213.914			
L5 44.25-0.00	1569.11	18009.45	C	1	0.73	7	1	1	213.914	1462.45	33.05	C
			A	1	0.73		1	1	252.057			
			B	1	0.73		1	1	252.057			
Sum Weight:	6203.70	42675.43	C	1	0.73			OTM	252.057			
									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 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	11 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.	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
L5	44.25-0.00	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	12 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

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	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
L3	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	13 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.	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	14 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.	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
		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
L3	138.75-90.50	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
		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
L4	90.50-44.25	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
		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
L5	44.25-0.00	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 15 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

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 _A A _C Front ft ²	C _A A _C 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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	16 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	17 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

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	$C_{A_{AC}}$ Front ft ²	$C_{A_{AC}}$ 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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	18 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	19 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	20 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

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_{AA_C} Front ft ²	C_{AA_C} 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 Weight:		12473.00							

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	21 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	22 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	23 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	24 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	25 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

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		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	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 26 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

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					

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	27 of 47
	Project	Date
	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	16:35:58 04/23/24
	Client	Designed by
	The Towers, LLC	AG

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	28 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

Comb. No.	Description
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

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	29 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	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. M _x	20	-73986.49	6511721.73	-19353.65
			Max. M _y	2	-73986.45	11821.85	6516895.95
			Max. V _y	20	-45641.38	6511721.73	-19353.65
			Max. V _x	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 -	74011.35	22872.63	39622.62	5656358.37	-3265864.12	-981.25

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	30 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	31 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

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%

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	32 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	33 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 34 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

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
in		in						
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 $\frac{P_u}{\phi P_n}$
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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	36 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	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	37 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	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 _{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M _{uy} lb-ft	φM _{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
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
L2	181 - 180	TP34.6781x22.4475x0.25	94418.33	423552.50	0.223	0.00	423552.50	0.000
	180 - 178.079		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 Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	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_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
L3	155.026 - 153.105	TP48.4843x32.7698x0.3125	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
	143.5 - 138.75		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
	97.25 - 90.5		2520533.33	2806541.67	0.898	0.00	2806541.67	0.000
	90.5 - 88.4028		1288683.33	2999433.33	0.430	0.00	2999433.33	0.000
	88.4028 - 86.3056		1479358.33	3775408.33	0.392	0.00	3775408.33	0.000
	86.3056 - 84.2083		2846041.67	3857825.00	0.738	0.00	3857825.00	0.000
	84.2083 - 82.1111		2924466.67	3940641.67	0.742	0.00	3940641.67	0.000
	82.1111 - 80.0139		3003325.00	4023825.00	0.746	0.00	4023825.00	0.000
	80.0139 -		3082608.33	4107366.67	0.751	0.00	4107366.67	0.000
L4		TP61.5724x45.8579x0.375	3162316.67	4191250.00	0.755	0.00	4191250.00	0.000
			3242466.67	4275450.00	0.758	0.00	4275450.00	0.000

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	39 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_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	77.9167							
	77.9167 -		3323041.67	4359950.00	0.762	0.00	4359950.00	0.000
	75.8194							
	75.8194 -		3404050.00	4444741.67	0.766	0.00	4444741.67	0.000
	73.7222							
	73.7222 -		3485491.67	4529791.67	0.769	0.00	4529791.67	0.000
	71.625							
	71.625 -		3567358.33	4615100.00	0.773	0.00	4615100.00	0.000
	69.5278							
	69.5278 -		3649666.67	4700633.33	0.776	0.00	4700633.33	0.000
	67.4306							
	67.4306 -		3732408.33	4786383.33	0.780	0.00	4786383.33	0.000
	65.3333							
	65.3333 -		3815591.67	4872333.33	0.783	0.00	4872333.33	0.000
	63.2361							
	63.2361 -		3899200.00	4958458.33	0.786	0.00	4958458.33	0.000
	61.1389							
	61.1389 -		3983250.00	5044741.67	0.790	0.00	5044741.67	0.000
	59.0417							
	59.0417 -		4067741.67	5131175.00	0.793	0.00	5131175.00	0.000
	56.9444							
	56.9444 -		4152666.67	5217725.00	0.796	0.00	5217725.00	0.000
	54.8472							
	54.8472 -		4238025.00	5304391.67	0.799	0.00	5304391.67	0.000
	52.75							
	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 -		4687283.33	7034550.00	0.666	0.00	7034550.00	0.000
	41.9211							
	41.9211 -		4785608.33	7163033.33	0.668	0.00	7163033.33	0.000
	39.5921							
	39.5921 -		4884450.00	7291883.33	0.670	0.00	7291883.33	0.000
	37.2632							
	37.2632 -		4983800.00	7421066.67	0.672	0.00	7421066.67	0.000
	34.9342							
	34.9342 -		5083650.00	7550574.67	0.673	0.00	7550574.67	0.000
	32.6053							
	32.6053 -		5184008.33	7680366.67	0.675	0.00	7680366.67	0.000
	30.2763							
	30.2763 -		5284850.00	7810433.33	0.677	0.00	7810433.33	0.000
	27.9474							
	27.9474 -		5386183.33	7940741.33	0.678	0.00	7940741.33	0.000
	25.6184							
	25.6184 -		5488000.00	8071266.67	0.680	0.00	8071266.67	0.000
	23.2895							
	23.2895 -		5590291.67	8201983.33	0.682	0.00	8201983.33	0.000
	20.9605							
	20.9605 -		5693050.00	8332883.33	0.683	0.00	8332883.33	0.000
	18.6316							
	18.6316 -		5796283.33	8463916.67	0.685	0.00	8463916.67	0.000
	16.3026							
	16.3026 -		5899974.67	8595083.33	0.686	0.00	8595083.33	0.000
	13.9737							
	13.9737 -		6004116.67	8726333.33	0.688	0.00	8726333.33	0.000
	11.6447							
	11.6447 -		6108716.67	8857666.67	0.690	0.00	8857666.67	0.000
	9.31579							
	9.31579 -		6213750.00	8989083.33	0.691	0.00	8989083.33	0.000
	6.98684							
	6.98684 -		6319233.33	9120500.00	0.693	0.00	9120500.00	0.000

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	40 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_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	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 Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	41 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	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
L4	90.5 - 88.4028	TP61.5724x45.8579x0.375	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	42 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	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

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 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

Pole Interaction Design Data

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
		ϕP_n	ϕM_{ux}	ϕM_{uy}	ϕV_n	ϕT_n			
L1	195 - 194	0.000	0.000	0.000	0.000	0.000	0.000 ¹	1.000	4.8.2 ✓
	194 - 193	0.000	0.000	0.000	0.001	0.000	0.001	1.000	4.8.2 ✓
	193 - 192	0.000	0.001	0.000	0.001	0.000	0.001	1.000	4.8.2 ✓
	192 - 191	0.000	0.001	0.000	0.001	0.000	0.002	1.000	4.8.2 ✓
	191 - 190	0.005	0.026	0.000	0.042	0.000	0.033	1.000	4.8.2 ✓
	190 - 189	0.005	0.050	0.000	0.041	0.000	0.057	1.000	4.8.2 ✓
	189 - 188	0.005	0.073	0.000	0.041	0.000	0.079	1.000	4.8.2 ✓
	188 - 187	0.005	0.094	0.000	0.041	0.000	0.101	1.000	4.8.2 ✓
	187 - 186	0.005	0.115	0.000	0.040	0.000	0.122	1.000	4.8.2 ✓
	186 - 185	0.005	0.135	0.000	0.040	0.000	0.141	1.000	4.8.2 ✓
	185 - 184	0.005	0.154	0.000	0.040	0.000	0.160	1.000	4.8.2 ✓
	184 - 183	0.005	0.172	0.000	0.040	0.000	0.179	1.000	4.8.2 ✓
	183 - 182	0.005	0.190	0.000	0.039	0.000	0.196	1.000	4.8.2 ✓
	182 - 181	0.005	0.207	0.000	0.039	0.000	0.213	1.000	4.8.2 ✓
	181 - 180	0.005	0.223	0.000	0.039	0.000	0.230	1.000	4.8.2 ✓
L2	180 - 178.079	0.004	0.178	0.000	0.029	0.000	0.183	1.000	4.8.2 ✓
	178.079 - 176.158	0.004	0.196	0.000	0.029	0.000	0.201	1.000	4.8.2 ✓
	176.158 - 174.237	0.008	0.225	0.000	0.061	0.000	0.237	1.000	4.8.2 ✓
	174.237 - 172.316	0.008	0.270	0.000	0.061	0.000	0.282	1.000	4.8.2 ✓
	172.316 - 170.395	0.008	0.312	0.000	0.060	0.000	0.324	1.000	4.8.2 ✓
	170.395 - 168.474	0.008	0.351	0.000	0.059	0.000	0.363	1.000	4.8.2 ✓
	168.474 - 166.553	0.008	0.387	0.000	0.059	0.000	0.399	1.000	4.8.2 ✓
	166.553 - 164.632	0.008	0.421	0.000	0.058	0.000	0.433	1.000	4.8.2 ✓
	164.632 - 162.711	0.011	0.464	0.000	0.076	0.000	0.480	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	44 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 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
	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	Page	45 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 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
	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 Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	47 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	Component Type	Size	Critical Element	P lb	$\emptyset P_{allow}$ 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		
Top Dia (in)	22.4475	32.7698	45.8579	58.3021	
Bot Dia (in)	34.6781	48.4843	61.5724	73.9425	
Grade			A572-65		
Weight (lb)	3468.8	7932.7	12594.9	18009.5	42005.9

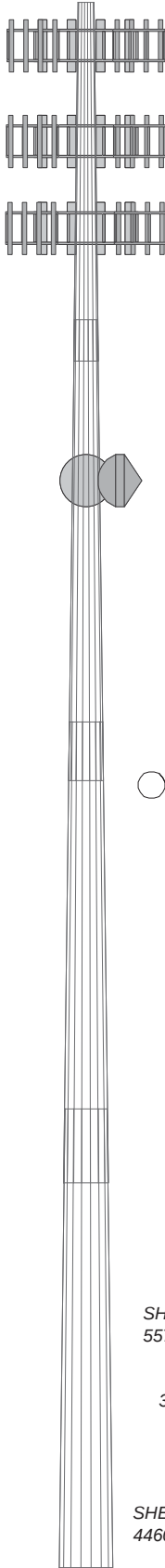
180.0 ft

138.8 ft

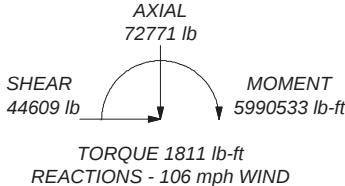
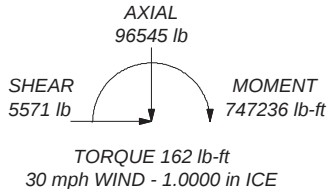
90.5 ft

44.3 ft

0.0 ft



ALL REACTIONS
ARE FACTORED



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%

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 Code: TIA-222-H Path: N:\eri\6614\661441.eri			
				Drawn by: AG	App'd:		
				Date: 04/26/24	Scale: NTS		
						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

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	√ Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	√ Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	√ SR Leg Bolts Resist Compression
Use Code Stress Ratios	√ Use Clear Spans For KL/r	√ All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	√ Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
Include Bolts In Member Capacity	√ Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
√ Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
√ Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	√ Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	√ Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
√ SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	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	

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	2 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	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	Gusset Area (per face)	Gusset Thickness	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
ft	ft ²	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
f _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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	3 of 44
	Project	Date
	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	16:43:03 04/23/24
	Client	Designed by
	The Towers, LLC	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 _A A _A 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 _A A _A In Face ft ²	C _A A _A 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 _A A _A In Face ft ²	C _A A _A 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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	4 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 Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight lb
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 _A A _A Front ft ²	C _A A _A 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	0.0000		125.00	6.00	No Ice	28.27
				0.00					1/2" Ice	29.07
				0.00					1" Ice	29.86
6' Solid w/Radome	B	Paraboloid w/Radome	From Leg	0.00	0.0000		125.00	6.00	No Ice	28.27
				0.00					1/2" Ice	29.07
				0.00					1" Ice	29.86

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	5 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 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 ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	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	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 ft ²	C _A A _A Out Face ft ²
ft	ft		psf	in	ft ²		ft ²	ft ²	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	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	6 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 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 ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
138.75-90.50					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	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
L4 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	933.57	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
180.00-138.75			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
138.75-90.50			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	32	1	1	213.914	5436.48	117.55	C
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	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	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	933.57	3468.82	A	1	0.73	38	1	1	99.567	3043.15	73.77	C
180.00-138.75			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2	1696.92	7932.72	A	1	0.73	35	1	1	168.556	4800.61	99.49	C
138.75-90.50			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	32	1	1	213.914	5436.48	117.55	C
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	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		

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	7 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 Forces - No 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	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 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 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
-------------------------	------------------	-------------------	---------	---	----------------	-----------------------	----------------	----------------	-----------------------------------	---------	----------	------------

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 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 Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
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	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
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	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	9 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 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	933.57	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
180.00-138.75			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
138.75-90.50			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
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 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	933.57	3468.82	A	1	0.73	11	1	1	99.567	872.39	21.15	C
180.00-138.75			B	1	0.73		1	1	99.567			
			C	1	0.73		1	1	99.567			
L2	1696.92	7932.72	A	1	0.73	10	1	1	168.556	1376.20	28.52	C
138.75-90.50			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
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		

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	10 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

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	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
		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	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
		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	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
		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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	11 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	12 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.	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	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	13 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.	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
L4	44.25-0.00	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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	14 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	15 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	16 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	17 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	18 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	19 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	20 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 21 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	22 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

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
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	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	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	V _z	OTM _x	OTM _z	Torque
	lb	lb	lb-ft	lb-ft	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	23 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

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 Weight:	1050.60						

Dish Vectors - With Ice

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	-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	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	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	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	24 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

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	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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	25 of 44
	Project	Date
	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	16:43:03 04/23/24
	Client	Designed by
	The Towers, LLC	AG

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	26 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

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
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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	27 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

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job SO31895; Tower 661441; Foundation 661442	Page 28 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 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	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	29 of 44
	Project	Date
	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	16:43:03 04/23/24
	Client	Designed by
	The Towers, LLC	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
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%

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	30 of 44
	Project	Date
	NP 180' - US-KY-5182 / Fairway - Taylor Co., KY	16:43:03 04/23/24
	Client	Designed by
	The Towers, LLC	AG

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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	31 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

24	Yes	5	0.00000001	0.00068197
25	Yes	5	0.00000001	0.00029297
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00099250
28	Yes	5	0.00000001	0.00008059
29	Yes	5	0.00000001	0.00008038
30	Yes	4	0.00000001	0.00098991
31	Yes	5	0.00000001	0.00008077
32	Yes	5	0.00000001	0.00008081
33	Yes	4	0.00000001	0.00098838
34	Yes	5	0.00000001	0.00008038
35	Yes	5	0.00000001	0.00008040
36	Yes	4	0.00000001	0.00098807
37	Yes	5	0.00000001	0.00008047
38	Yes	5	0.00000001	0.00008073
39	Yes	4	0.00000001	0.00005233
40	Yes	4	0.00000001	0.00048030
41	Yes	4	0.00000001	0.00046759
42	Yes	4	0.00000001	0.00005154
43	Yes	4	0.00000001	0.00047044
44	Yes	4	0.00000001	0.00049023
45	Yes	4	0.00000001	0.00006028
46	Yes	4	0.00000001	0.00046292
47	Yes	4	0.00000001	0.00047764
48	Yes	4	0.00000001	0.00005946
49	Yes	4	0.00000001	0.00049343
50	Yes	4	0.00000001	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	SO31895; Tower 661441; Foundation 661442	Page	32 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	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 243576.14 0.78	198264.57 404336.40 0.49	34.696 45.000 0.77		Bolt T	0.78 

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 $\frac{P_u}{\phi P_n}$
L1	180 - 178.079	TP34.6781x22.4475x0.25	41.25	0.00	0.0	18.0657	-193.13	1056840.00	0.000
	178.079 - 176.158					18.5177	-389.85	1083280.00	0.000
	176.158 - 174.237					18.9696	-5460.36	1109720.00	0.005
	174.237 - 172.316					19.4216	-5666.73	1136160.00	0.005
	172.316 - 170.395					19.8736	-5876.66	1162600.00	0.005
	170.395 - 168.474					20.3255	-6091.66	1189040.00	0.005
	168.474 -					20.7775	-6311.62	1215480.00	0.005

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	33 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	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	34 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	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
	52.75 - 44.25					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
L4		TP73.9425x58.3021x0.4375	52.75	0.00	0.0				

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	35 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	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 0	-70346.00	5858960.00	0.012
	4.65789 - 2.32895					101.112 0	-71542.30	5915050.00	0.012
	2.32895 - 2.32895 - 0					102.071 0	-72748.70	5971150.00	0.012

Pole Bending Design Data

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 $\frac{M_{uy}}{\phi M_{ry}}$
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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	37 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	Size	M_{ux} lb-ft	ϕM_{nx} lb-ft	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	M_{uy} lb-ft	ϕM_{ny} lb-ft	Ratio $\frac{M_{uy}}{\phi M_{ny}}$
	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

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	38 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

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
	143.5 - 138.75		13490.70	459831.00	0.029	0.23	1445541.67	0.000
L2	143.5 - 138.75	TP48.4843x32.7698x0.3125	15783.60	564997.00	0.028	0.28	1748366.67	0.000
	138.75 - 136.444		29476.80	589513.00	0.050	0.64	1819658.33	0.000
	136.444 - 134.139		29682.00	601412.00	0.049	0.79	1892383.33	0.000
	134.139 - 131.833		29888.40	613312.00	0.049	0.95	1966525.00	0.000
	131.833 - 129.528		30096.10	625212.00	0.048	1.13	2042100.00	0.000
	129.528 - 127.222		30312.10	649011.00	0.047	0.85	2119091.67	0.000
	127.222 - 124.917		32142.00	660911.00	0.049	1014.36	2197516.67	0.000
	124.917 - 122.611		32469.50	672810.00	0.048	985.78	2277358.33	0.000
	122.611 - 120.306		32680.90	684710.00	0.048	985.48	2358625.00	0.000
	120.306 - 118		32893.60	696610.00	0.047	985.26	2441316.67	0.000
	118 - 115.694		33107.50	708509.00	0.047	985.13	2525441.67	0.000

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	39 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	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	44.25 - 41.9211	TP73.9425x58.3021x0.4375	19463.70	1278350.00	0.015	462.93	6851108.00	0.000
	41.9211 - 39.5921		21199.40	1471600.00	0.014	518.43	7782133.33	0.000
	39.5921 - 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
			41320.40	1522090.00	0.027	981.02	8325241.33	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	40 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	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	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
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 Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job	Page
	SO31895; Tower 661441; Foundation 661442	41 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
	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
L3	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 ✓
	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
-------------	-----------------	-------------------	------	---------------------	---------	------------------------	---------------	--------------

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	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	$\emptyset P_{allow}$ 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

Drilled 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 (Compression):	74.011 kips
Uplift:	0.000 kips

Design Dimensions

Pole OD:	73.9425 in
Pier Diameter:	8.5 ft
Pier Extension:	0.5 ft
Pier Depth:	25.5 ft
Total Pier Length:	26 ft
Volume:	54.6 yd³

Site Details

Rock Depth:	6.9 ft
Frost Depth:	1.67 ft
Water Depth:	999 ft
Upper Pier Neglected:	5 ft
Minimum Pier Depth:	ft
Soil Induced Uplift Load:	kips
Seismic Site Class:	C
Design Response Acc., S _{DS} :	0.350 g
Design Response Acc., S _{DI} :	0.110 g
Seismic Design Category:	C
Soil Corrosion Risk:	
Soil Weight:	110 pcf

Compression/Uplift Resistance Design

Layer	Depth (ft)	Depth (ft)	Length (ft)	Diameter (ft)	Allowable Skin Friction				Ultimate Skin Friction				Net Concrete Weight ⁽¹⁾				Total Resistance		
					Uplift		Compression		Uplift		Compression		Weight	Compression	Uplift	Ultimate Bearing	Uplift	Comp.	
					(ksf)	Safety Factor	(ksf)	Safety Factor	(ksf)	(kips)	(kips)	(kips)	(pcf)	(kips)	(kips)	(ksf)	(kips)	(kips)	(kips)
1	-0.5	0	0.5	8.5	0.000		0.000		0.000	0.00	0.000	4.26	4.26	Allowable	FS	4.26	0.0		
2	0	5	5	8.5	0.000	1.0	0.000	1.0	0.000	0.00	0.000	0.00	150	11.35	42.56	110.00	1.0	42.56	0.00
3	5	8	3	8.5	0.500	1.0	0.500	1.0	0.500	40.06	0.500	40.06	150	6.81	25.54	0.00	0.00	65.59	40.06
4	8	18	10	8.5	0.750	1.0	0.750	1.0	0.750	200.28	0.750	180.25	150	22.70	85.12	0.00	0.00	285.39	180.25
5	18	25.5	7.5	8.5	2.000	1.0	2.000	1.0	2.000	400.55	2.000	0.00	150	17.02	63.84	0.00	0.00	464.39	0.00
6	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
7	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
8	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
9	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
10	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
11	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
12	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
13	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
14	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
15	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
16	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
17	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
18	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
19	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
20	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
21	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	0.00	0.00	0.00	0.00
22	25.5	25.5	0	8.5	0.000	0.0	0.000	0.0	0.000	0.00	0.000	0.00	150	0.00	0.00	110.00	6241.95	0.00	6241.95
Total										640.88		220.30		62.14	221.31		6241.95	646.64	4846.69

Extended Pier:

Stability Analysis - Modified Broms' Method

Primary Soil Type	Soil Unit Weight (pcf)	Angle of Internal Friction (deg)	Passive Pressure Coefficient	Shear Stability Distance, f (ft)	Distance to Maximum Moment (ft)	Max Stability Moment [Geotechnical] (kip-ft)	Max Flexural Moment [Structural] (kip-ft)	Moment Stability Distance, g (ft)	Minimum Depth of Drilled Pier (ft)	Actual Depth of Drilled Pier (ft)
Sand	110	30.000	0.000	3.00	3.81	5.98	8995.9	6717.9	15.36	20.84
										25.50
										OK

Solve Minimum Length (Sand)

TIA-222 H-9.4.1		TIA-222 H-9.4	
Pier Element Rigidity	Lpile Induced Moment (kip-ft)	Lpile Ultimate Deflection (in)	Lpile Service Deflection (in)
Rigid	6734.83		0.00
	OK	N/A	OK
	83.3%		0.3%

Vertical Reinforcement Design

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 (sq in)	Gross Pier Area (sq in)	Minimum Bar Area Required (sq in)	Steel Cage Diameter (in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)	Steel Location Factor	Flexure Reduction Factor	Design Moment Capacity (kip-ft)
46	9	306	1.128	3.400	3988	1.00	46.00	8171.28	40.86	93.372	6.4	5.2	0.92	0.90	8083
OK															

Development Length - Vertical Rebar

Bar Size	Reinf. Location Factor, ψ_t	Coating Factor, ψ_c	Reinf. Size Factor, ψ_s	Lightweight Concrete Strength Factor, λ	Spacing or Cover, c_b (in)	Transverse Reinf. Index, K_{tr}	Develop. Length l_d (in)
9	1.0	1.0	1.0	1.0	3.19	0.0	30.3

Tie Reinforcement Design

Number of Bars	Bar Size	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Min. Seismic Hook Extension (in)	Total Length (in)	Zone	Maximum Tie Spacing (in)	Zone Distance (in)	Number of Tie Spaces (in)	Actual Tie Spacing (in)	Number of Ties per Zone	Standard	Confinement Applied
38	6	0.750	1.502	1541	0.44	5.0	324.0	End	5	5	1	5	2		
								Top	6	72	12	6	12		
								Middle	10	223.25	23	9 11/16	22		
								End	5	5	1	5	2		

Shear

Shear Reaction	Moment at Max. Shear	Distance to Tension Reinf.	Ratio of A_v to $b_w d$	Ratio of Shear/Moment	Nom. Strength Concrete	Max. Concrete Shear	Minimum Bar Area	Total Bar Area	Nom. Strength Reinforcement	Des. Shear Strength
$V_{u, \text{shear}}$ (kip)	$M_{u, \text{shear}}$ (kip-in)	d (in)	ρ_v	$V_u/M_{u, \text{shear}}$	V_c (kip)	$V_{c, \text{max}}$ (kip)	$A_{s, \text{min}}$ (in ²)	A_s (in ²)	V_n (kip)	ϕV_n (kip)
628.82	32548.31325	81.600	0.006	1.000	1116.674	1954.180	0.855	0.880	861.696	1483.778
ACI-318-14 22.5				ACI-318-14 2.2	ACI-318-14 22.5.5			ACI-318-14 22.5.1	ACI-318-14 22.5.1	OK
				OK				OK		42.4%

Splice Length - Ties

Bar Size	Reinf. Location Factor, α	Coating Factor, β	Reinf. Size Factor, γ	Lightwt. Aggregate Factor, λ	Spacing or Cover, c (in)	Transverse Reinf. Index, K_{tr}	Development Length l_d (in)	Splice Length Tolerance (in)	Splice Length $1.3 \cdot l_d$ (in)	Bend Radius (in)
6	1.0	1.0	0.8	1.0	3.38	0.0	16.1	1.0	21.9	2.25

Anchor Bolt and Embedment Plate Details

Number of Bolts	Bolt Diameter (in)	Bolt Length (in)	Anchor Bolt P/N	Bolt Projection (in)	Projection Tolerance Above (in)	Projection Tolerance Below (in)	Plate P/N	Plate O.D. / Width (in)	Bolt Circle Diameter (in)	Plate I.D. (in)	Plate Thickness (in)	Space Beneath Plate (in)
18	2.25	72	108742	12	2	0	661444	86	81	76	0.375	4.5

Anchor Bolt Properties & Forces

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 ²)	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 4.9.6.1

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

ACI-318-14 25.4

OK

ACI-318-14 25.4.2.3 ACI-318-14 25.4.4.2

ACI-318-14 17.4.3 DI-318-14 17.3.3.18-14 17.4.3

OK

24.0%

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 Compression 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

ACI-318-14 17.3.3 ICI-318-14 17.5.1.1

OK

2.5%

TIA-222-H 4.9.6.3

OK

1.7%

OK

75.0%

TIA-222-H 4.9.9

OK

3.9%

TIA-222-H 4.9.9 TIA-222-H 4.9.5.1A-222-H 4.9.1

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%
----------------------------------	-------

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

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

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

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

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

BACKFILL CRITERIA (NON-STRUCTURAL)	
Loose Lift Thickness:	8 in
Percent Compaction:	95%
ASTM Standard:	D698
Optimum Moisture Content	2%
Tolerance:	-2%

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.
- 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 _{0.1} :	0.110 g
Seismic Design Category:	C

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
Pad Development Length Reduction:	☒ No Reduction
Compressive Development Length Red:	☒ Yes, Utilize Reduc
Tension Development Length Reduction:	☒ No Reduction
Pad Ties Development Length Reduction:	☒ No Ties in Pad

Maximum Foundation Capacity Rating:	91.0%
-------------------------------------	-------

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:	

Concrete Pad Volume (cubic yd)	Concrete Pier Volume (cubic yd)	Total Concrete Volume (cubic yd)	Concrete Weight (kips)	Soil Volume (cubic yd)	Soil Weight (kips)	Soil Weight Removed (kips)	Total Dead Load (kips)	Total Factored Dead Load (kips)
58.07	11.56	69.63	282.01	134.68	399.99	603.68	737.51	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)						
					277.7						
2	56	148.96	0.00	221.3							
						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 (L.C. 0.9D) (ft)
0.00	9370.38	0.00	99.31	0.00	6874.61	9444.9	10.3
						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 (ksf)	Maximum Gross Bearing Pressure (ksf)	Maximum Net Bearing Pressure (ksf)
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)	0.00	3.75	2.98
-0.91	2.80	FALSE	14.04	0.00	3.75	TRUE			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)	Clear Spacing (in)
45	9	330	1.13	3.40	16630	1.00	45.00	7.26	6.3
							OK		OK
								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)
19.87	336.00	2.101	0.83	5.07	2972.85	3811.37	30.27	114.00	174
Yield Check:						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
ACI-318-14 22.5.3						ACI-318-14 22.6.4		ACI-318-14 22.6.5.2		ACI-318-14 22.6.5.1
OK										OK
74.0%										26.8%

Number of Bars	Bar Size	Bar Diameter (in)	Bar Weight (lb/ft)	Bar Weight (lb)	Bar Area (sq in)	Min. Seismic Hook Extension (in)	Total Length (in)	Zone	Tie Spacing (in)	Zone Distance (in)	of Tie Spaces	Tie Spacing (in)	of Ties per Zone
12	5	0.63	1.04	334	0.31	4.0	320.5	End	5	5	1	5	2
								Top	0	0	0	0	0
								Middle	6	58	10	5 13/16	10
								Pad	N/A	N/A	N/A	N/A	N/A
6.0							overlap (min)						

Shear									
Distance to Tension Reinf. d (in)	Ratio of A_v to $b_w d$	Ratio of Shear/Moment V_u/M_u	Nom. Concrete Strength V_c (kip)	Max. Nom. Concrete Strength V_{cmax} (kip)	Minimum Bar Area A_{vmin} (in ²)	Total Bar Area A_v (in ²)	Nom. Strength Reinforcement V_n (kip)	Des. Shear Strength ϕV_n (kip)	
81.600	0.005	1.000	1116.674	1954.180	0.513	0.620	1011.840	1596.386	OK
ACI-318-14 22.5.2.2 ACI-318-14 2.2							OK	2.9%	
ACI-318-14 22.5.5.1 (c) ACI-318-14 22.5.10.5.3							OK		

Bar Size	Reinf. Location Factor, α	Coating Factor, β	Reinf. Size Factor, γ	Lightwt. Aggregate Factor, λ	Spacing or Cover, c (in)	Transverse Reinf. Index, K_{tr}	Development Length ℓ_d (in)	Splice Length Tolerance (in)	Splice Length 1.3 * ℓ_d (in)	Bend Radius (in)
5	1.0	1.0	0.8	1.0	2.91	0.0	13.4	1.0	18.4	1.88
ACI-318-14 25.4.2.3 ACI-318-14 Table 25.4.2 ACI-318-14 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3 ACI-318-14 Table 25.4.2.3										

Pier Vertical Reinforcement Design														
Number of Bars	Bar Size	Bar Diameter (in)	Bend Radius (in)	Hook Extension Length (in)	90 degree Std. Hook Length (ACI 7.1.2) (in)	Bar Length (in)	Bar Area (sq in)	Total Bar Area (sq in)	Minimum Bar Area Required (sq in)	Reinforcement Size Factor	Max Spacing/Cover Dimension (in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)	
43	9	1.13	4.51	13.54	18.05	98.00	1.00	43.00	40.86	1.00	3.42	6.8	5.7	OK
ACI-318-14 Table 25.3.1 ACI-318-14 Table 25.3 ACI-318-14 Table 25.3.1														Constructability: OK
ACI-318-14 25.2.3														

Development Length - Vertical Pier Reinforcement							Hook Development Length							Space for Hook		
Compressive Development				Tension Development			Basic Development		Concrete Cover Factor		Required Development		Development		Space	
Required Length (in)	Required Length Adj. (in)	Available in Pier (in)	Available in Footing (in)	Required Length (in)	Available in Pier (in)	Available in Footing (in)	Length (in)				Length (in)	Length Available (in)	Hook Orientation	Available for Hook (in)	Space Required for Hook (in)	
20.30	8.00	63.00	18.74	30.27	63.00	18.74	20.18	0.7			14.1	18.74	Hooks Extend Outward	117.63	18.0	
OK				OK			HOOK REQ'D		ACI-318-14 25.4.3.1		ACI-318-14 Table 25.4.3.1			OK		
ACI-318-14 25.4.2.3.1																

ACI-318-14 18.12.2.2

Pier Strength - Compression / Flexure / Shear-Friction											
Pier Gross Area (sq in)	Compression Load (kip)	Nominal Compressive Strength (kip)	Compressive Strength Reduction Factor	Design Compressive Strength (kip)	Diameter of Reinforcement Circle (in)	Steel Location Factor	Induced Moment Load (kip-ft)	Flexure Reduction Factor	Design Moment Capacity (kip-ft)	Nominal Shear-Friction Strength (kip)	Design Shear-Friction Strength (kip)
8171.28	74	33670.68	0.65	17508.75	93.62	0.92	6783	0.90	7454	1548.00	1161
ACI-318-14 22.4.2.2				ACI-318-14 21.2.2				ACI-318-14 21.2.3			
OK				OK				OK			
0.4%				OK				3.9%			
ACI-318-14 22.4.2.3											

Anchor Bolt and Embedment Plate Details													
Number of Bolts	Bolt Diameter (in)	Bolt Length (in)	Anchor Bolt P/N	Bolt Projection (in)	Projection Tolerance Above (in)	Projection Tolerance Below (in)	Plate P/N	Plate O.D. / Width (in)	Bolt Circle Diameter (in)	Plate I.D. (in)	Plate Thickness (in)	Grout Space Beneath Plate (in)	Anchor Bolt Detail Type
18	2.25	72	108742	12	2	0	661444	86	81	76	0.375	4.5	(d) No Grout

Anchor Bolt Properties & Forces														
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 4.5.9 TIA-222-H 4.5.6.1 TIA-222-H 4.5.9														

Anchor Concrete Design															
Anchor Embedment Depth (in)	Effective Embedment Depth (in)	Required 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 (in²)	Cracking Modification Factor	Pullout Reduction Factor	Design Pullout Strength (kip)	Pier Allowable Embedment Depth	Upper Limit for Anchors in Footing (in)	Lower Limit for Anchors in Footing (in)
58.00	55.38	30.27	43.81	7.07	0.12	75.47	73%	3.500	6.633	1.4	0.70	234.003	66.000	71.88	82.12
OK		ACI-318-14 25.4.2.3.1		OK		ACI-318-14 25.4.2.3b		ACI-318-14 25.4.4.3		ACI-318-14 17.4.3.6		ACI-318-14 17.3.3		OK	
													24.0%		
													ACI-318-14 17.4.3.1.4		
													PIER ONLY		

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 Compression Yield Strength (kip)	Nominal Shear Yield Strength (kip)	Anchor Bolt Interaction Equation
0.75	324.768	243.576	0.65	1.00	126.660	1.00	149.103	0.750	0.90	7.883	198.804	243.576	73.073	0.811
TIA-222-H 4.5.9 TIA-222-H 4.5.9 TIA-222-H 4.5.9 ACI-318-14 17.3.3.3 ACI-318-14 17.5.3.3 TIA-222-H 4.5.6.3 TIA-222-H 4.5.6.4 TIA-222-H 4.5.9 TIA-222-H 4.5.9 TIA-222-H 4.5.9 TIA-222-H 4.5.9 TIA-222-H 4.5.9														

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														

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.](#)



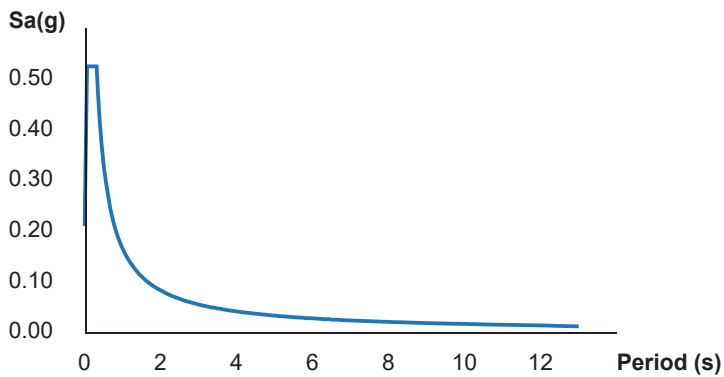
Hazards by Location

Search Information

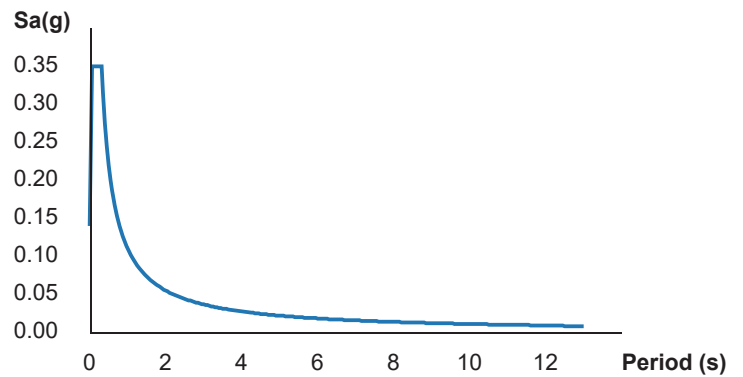
Coordinates: 34.370404, -85.386322
Elevation: 755 ft
Timestamp: 2024-04-23T17:30:35.169Z
Hazard Type: Seismic
Reference Document: ASCE7-16
Risk Category: II
Site Class: C



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)

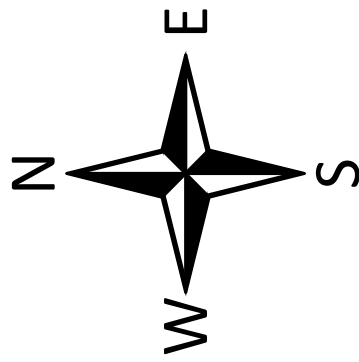
The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Please note that the ATC Hazards by Location website will not be updated to support ASCE 7-22. [Find out why.](#)

Disclaimer

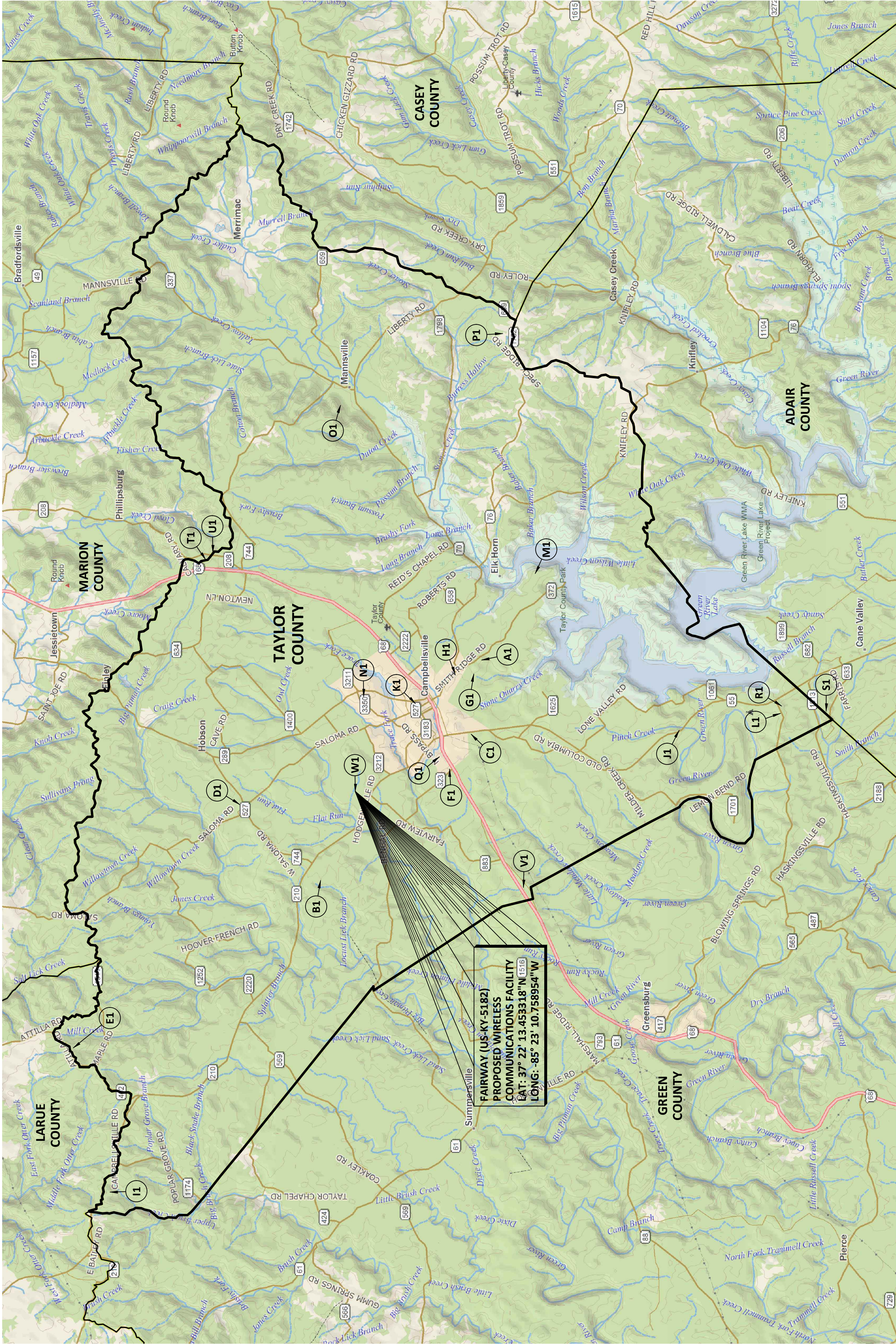
Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

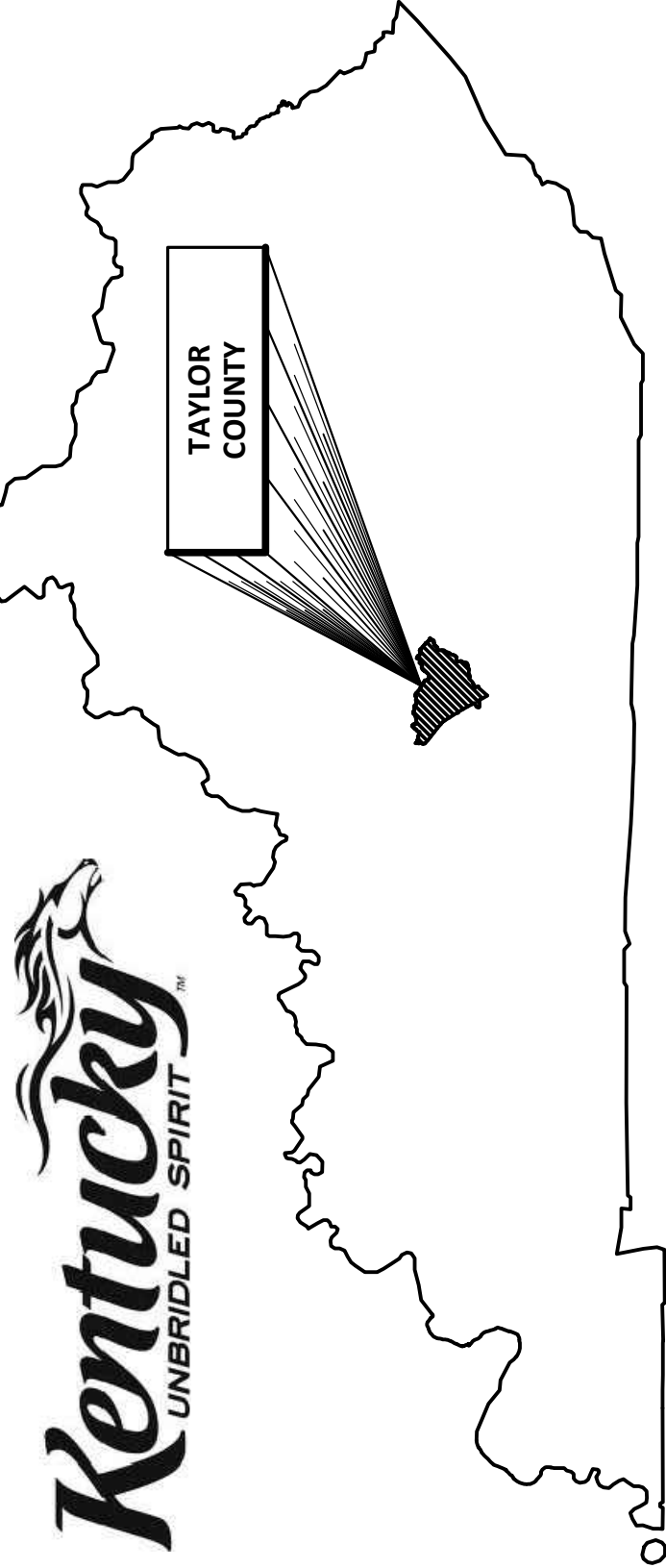


TAYLOR COUNTY, KENTUCKY
VERTICAL BRIDGE SITE NAME: FAIRWAY (US-KY-5182)

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



NOTE: TOWERS DEPICTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN TAYLOR COUNTY, KENTUCKY.



EXISTING TOWER LEGEND

A1	FCC REGISTRATION #: 1042222 GLOBAL TOWER, LLC THROUGH AMERICAN TOWERS, LLC LAT: 37° 19' 24.0\"N LONG: 85° 19' 29.0\"W	M1	FCC REGISTRATION #: 1265531 SBA MONARCH TOWERS III, LLC LAT: 37° 18' 12.2\"N LONG: 85° 17' 02.9\"W
B1	FCC REGISTRATION #: 1043056 CELCO PARTNERSHIP LAT: 37° 23' 00.2\"N LONG: 85° 25' 41.9\"W	N1	FCC REGISTRATION #: 1294366 KENTUCKY UTILITIES COMPANY LAT: 37° 22' 02.2\"N LONG: 85° 20' 31.3\"W
C1	FCC REGISTRATION #: 1043442 CITY OF CAMPBELLSVILLE LAT: 37° 19' 38.0\"N LONG: 85° 21' 35.0\"W	O1	FCC REGISTRATION #: 1303111 CELCO PARTNERSHIP LAT: 37° 22' 33.5\"N LONG: 85° 12' 18.7\"W
D1	FCC REGISTRATION #: 1044280 TENNESSEE GAS COMPANY LLC LAT: 37° 24' 49.0\"N LONG: 85° 23' 33.3\"W	P1	FCC REGISTRATION #: 1306590 CELCO PARTNERSHIP LAT: 37° 18' 55.6\"N LONG: 85° 10' 17.0\"W
E1	FCC REGISTRATION #: 1044516 EAST KENTUCKY POWER COOPERATIVE, INC. LAT: 37° 28' 32.2\"N LONG: 85° 30' 23.9\"W	Q1	FCC REGISTRATION #: 1311283 CELCO PARTNERSHIP LAT: 37° 20' 19.9\"N LONG: 85° 22' 11.9\"W
F1	FCC REGISTRATION #: 1046182 FIRST CORBIN REALTY, LLC LAT: 37° 20' 07.0\"N LONG: 85° 22' 33.0\"W	R1	(GRANTED) FCC REGISTRATION #: 1321708 TILLMAN INFRASTRUCTURE, LLC LAT: 37° 12' 40.8\"N LONG: 85° 20' 46.2\"W
G1	FCC REGISTRATION #: 1214265 CELCO PARTNERSHIP LAT: 37° 19' 34.2\"N LONG: 85° 19' 52.8\"W	S1	FCC REGISTRATION #: 1268209 CELCO PARTNERSHIP LAT: 37° 11' 40.7\"N LONG: 85° 20' 55.2\"W
H1	FCC REGISTRATION #: 1218250 AMERICAN FAMILY ASSOCIATION LAT: 37° 19' 52.8\"W LONG: 85° 19' 52.8\"W	T1	FCC REGISTRATION #: 1278437 THOMAS PEAVY LAT: 37° 19' 52.8\"N LONG: 85° 16' 39.0\"W
I1	FCC REGISTRATION #: 1227279 CELCO PARTNERSHIP LAT: 37° 27' 43.2\"N LONG: 85° 34' 27.8\"W	U1	FCC REGISTRATION #: 1044801 COMMONWEALTH OF KENTUCKY dba = KY EMERGENCY WARNING SYSTEM KEWS LAT: 37° 25' 25.0\"N LONG: 85° 16' 27.0\"W
J1	FCC REGISTRATION #: 1241661 CELCO PARTNERSHIP LAT: 37° 14' 59.0\"N LONG: 85° 21' 27.8\"W	V1	FCC REGISTRATION #: 1327417 SOUTHERN TOWERS B1'S, LP LAT: 37° 18' 27.8\"N LONG: 85° 25' 53.1\"W
K1	FCC REGISTRATION #: 1242907 SBA INFRASTRUCTURES, LLC LAT: 37° 20' 53.1\"N LONG: 85° 20' 42.5\"W	W1	(GRANTED) FCC REGISTRATION #: 1333008 THE TOWERS, LLC LAT: 37° 22' 13.4\"N LONG: 85° 23' 10.7\"W
L1	FCC REGISTRATION #: 1243210 SBA INFRASTRUCTURES, LLC LAT: 37° 12' 42.6\"N LONG: 85° 20' 58.8\"W		

REVISIONS

REV	DATE	DESCRIPTION
A	11.29.23	ISSUED FOR REVIEW
B	5.7.26	UPDATE TOWERS

SITE INFORMATION:

FAIRWAY

799 SALEM CHURCH ROAD
CAMPBELLSVILLE, KY 42718
TAYLOR COUNTY

TAX PARCEL NUMBER:
25-0005-01

PROPERTY OWNERS:
MARK D. GRAY (50%)
80 CAMELOT DR.
CAMPBELLSVILLE, KY 42718

SOURCE OF TITLE:
DEED BOOK 299, PAGE 544
DANNY & PAM HUBER (50%)
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)

CM-2

Privacy Act Statement (5 U.S.C. § 552a(e)(3)): Authority: Information solicited by the Federal Aviation Administration (FAA) Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) is authorized by 49 U.S.C. § 44718 and 47101 Purpose: The FAA OE/AAA is an application used to evaluate all structures that may affect the national airspace system and defend against potential hazards to the safety and efficient use of the navigable airspace. The information collected is used to allow a user access to the OE/AAA and to administer the Aeronautical Study Process. Routine Uses: In accordance with the Privacy Act system of records notice, DOT/ALL 16 Mailing Management System and DOT/FAA 826 Petitions for Exemptions, Other than Medical Exemptions this information may be disclosed to officials within the federal government and the public in general. DOT/ALL 13 - Internet/Intranet Activity and Access Records, this information is routinely used; • To provide information to any person(s) authorized to assist in an approved investigation of improper access or usage of DOT computer systems; • To an actual or potential party or his or her authorized representative for the purpose of negotiation or discussion of such matters as settlement of the case or matter, or informal discovery proceedings; • To contractors, grantees, experts, consultants, detailees, and other non-DOT employees performing or working on a contract, service, grant cooperative agreement, or other assignment from the Federal government, when necessary to accomplish an agency function related to this system of records; and • To other government agencies where required by law.

Disclosure: Submission of the information is voluntary, however, failure to submit requested information will result in FAA's inability to grant you access to the system and may result in an inability of the FAA to process the notice or administer the aeronautical study process for the construction, alteration, activation, or deactivation proposed.



U.S. Department of
Transportation
Federal Aviation
Administration

*Failure to Provide All Requested Information May Delay Processing of your
Notice*

Notice of Proposed Construction or Alteration

FOR FAA USE ONLY

Aeronautical Study
Number
2026-ASO-7925-OE

Status: Determined - No
Hazard

1. Sponsor

Name: THE TOWERS, LLC
Attn of: Richard Hickey
Address: 22 West Atlantic Avenue
Suite 310
City: Delray Beach
State: FL
Zip: 33444
Country: US
Phone: +1-1-561-406-4015
Fax:

2.Sponsor's Representative Name:VERTICAL BRIDGE REIT, LLC Attn of:VERTICAL BRIDGE REIT, LLC Address:22 West Atlantic Avenue Suite 310 City:Delray Beach State:FL Zip:33444 Country:US Phone:+1-1-561-406-4015 Fax:		9.Latitude:37° 22' 13.45" N 10.Longitude:85° 23' 10.76" W 12.Nearest State:KY County:Taylor 13.Nearest Public Use Airport:AAS (or Military Airport/Heliport) 14.Distance from Airport22783 ft to Structure: 15.Direction from Airport281° to Structure: 16.Site Elevation (SE):817 ft 17.Structure Height (AGL):199 ft 18.Overall Height (AMSL):1016 ft 19.Prior ASN (if applicable):2023-ASO-28600-OE 20.Description of Location:Salem Church Road 21.Description of Proposal: New Site Build; We do not plan to start construction until after the prior FAA expires; filing to have a new determination - POC: Matt Bonfante email: matt.bonfante@verticalbridge.com Number: 561-406-4023
3.Notice of:New Construction 4.Duration:Permanent (Months:0 Days:0) 5.Work Schedule: 6.Type:Antenna Tower 7.Marking/Lighting:None 8.FCC Antenna Registration Number:1333008 (if applicable)		Frequencies:

Low Freq	High Freq	Unit	ERP
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
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
1850	1910	MHz	1640 W
1930	1990	MHz	1640 W
2305	2310	MHz	2000 W
2345	2360	MHz	2000 W
698	806	MHz	1000 W
6	7	GHz	42 dBW
10	11.7	GHz	42 dBW
17.7	19.7	GHz	42 dBW
21.2	23.6	GHz	42 dBW
806	901	MHz	500 W
929	932	MHz	3500 W
1670	1675	MHz	500 W
1710	1755	MHz	500 W
1850	1990	MHz	1640 W
1990	2025	MHz	500 W
2110	2200	MHz	500 W
2305	2360	MHz	2000 W
2496	2690	MHz	500 W
6	7	GHz	55 dBW
10	11.7	GHz	55 dBW
17.7	19.7	GHz	55 dBW
21.2	23.6	GHz	55 dBW
614	698	MHz	1000 W
614	698	MHz	2000 W
3700	3980	MHz	3280 W

Letters:

[17/06/2026 - DET](#)

Processed 7460-2 Forms:

Supplemental Form 7460-2:

Please [login](#) to add a Supplemental Form 7460-2



Outlook

RE: Filing for Antenna Tower in Campbellsville - Vertical Bridge - US-KY-5182

From Airport Zoning Commission <AirportZoning@ky.gov>

Date Tue 1/16/2024 1:08 PM

To Robert Rodriguez <Robert.Rodriguez@verticalbridge.com>

 2 attachments (352 KB)

US-KY-5182_KAZC App_011624.pdf; 2023-ASO-28600-OE.pdf;

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!

Robert Rodriguez

750 Park of Commerce Drive, Suite 200



Boca Raton, FL 33487
561.596.9780

VerticalBridge.com





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**TABLE OF CONTENTS**

	<u>Page</u>
1. PURPOSE AND SCOPE.....	1
2. PROJECT CHARACTERISTICS	1
3. SUBSURFACE CONDITIONS	1
4. FOUNDATION DESIGN RECOMMENDATIONS	2
4.1. PROPOSED TOWER	3
4.1.1. Drilled Piers	3
4.1.2. Mat Foundation	4
4.2. EQUIPMENT PLATFORM.....	4
4.3. EQUIPMENT SLAB.....	4
4.4. EQUIPMENT BUILDING	4
4.5. DRAINAGE AND GROUNDWATER CONSIDERATIONS	5
5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS	5
5.1 DRILLED PIERS	5
5.2 FILL COMPACTION	6
5.3 CONSTRUCTION DEWATERING	6
6 FIELD INVESTIGATION	7
7 WARRANTY AND LIMITATIONS OF STUDY	7

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 feet sandstone that was moderately hard, weathered, brown and vuggy was encountered. At about 11.9 feet, 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 Undrained Shear Strength, psf	500	2,500	5,000	20,000
ϕ Angle of Internal Friction degrees	0	0	0	0
Total Unit Weight, pcf	110	120	135	135
Soil Modulus Parameter k, pci	30	500	1000	2000
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

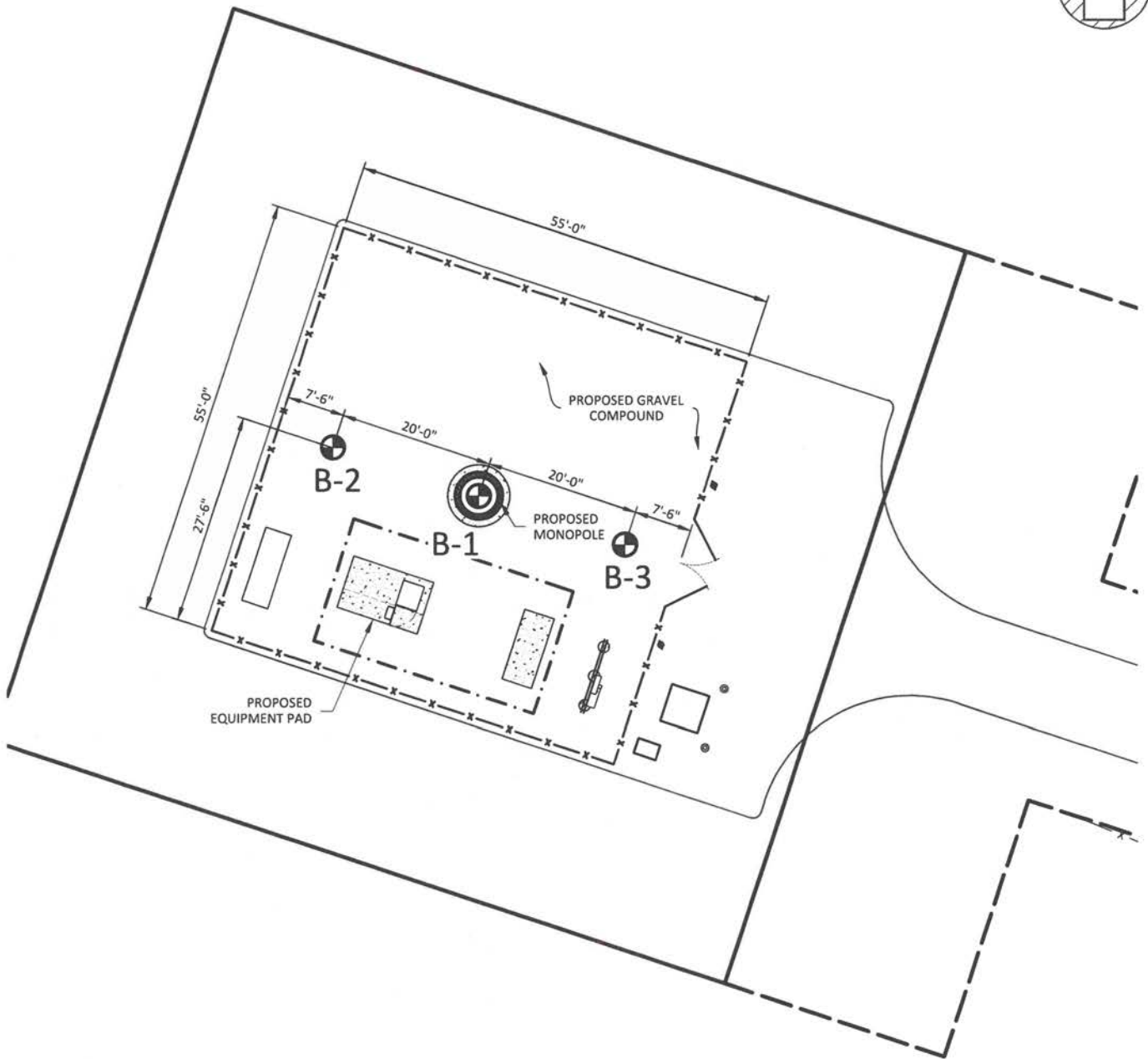
discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

APPENDIX

BORING LOCATION PLAN

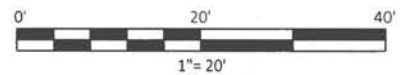
BORING LOG

SOIL SAMPLE CLASSIFICATION



LEGEND

 B-1 BORING LOCATION



SHEET TITLE:
**BORING
LOCATION
PLAN**

LATITUDE: 37° 22' 13.453318" N
LONGITUDE: 85° 23' 10.758954" W

PARCEL #: 25-005-01
DEED BOOK 299, PAGE 544

SITE INFORMATION:

FAIRWAY

601 SALEM CHURCH ROAD
CAMBELLSVILLE, KY 42718
TAYLOR COUNTY

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

SHEET NUMBER:

1

POD NUMBER: 23-158653
DRAWN BY: SM
CHECKED BY: MEP
DATE: 3.25.2024

OWNER INFORMATION:

MARK & MARY GRAY (1/2 INTEREST)
80 CAMELOT DR.
CAMBELLSVILLE, KY 42718

 **verticalbridge**

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	VOID										
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											

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

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, chlordane, 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 ATTORNMENMENT. 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:

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
2023 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 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:

ALL
Name: Alex Greenberg
Cameron Osbourne
Name: Cameron Osbourne

TENANT:

The Towers, LLC
a Delaware limited liability company

By: [Signature]
Name: Tim Shine
Title: SVP
Date: 7.27.2023

Leasing Ops ^{DS} LG

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. Marrs and Rhonda K. Marrs 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. Marrs and Rhonda K. Marrs, 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.

Robert Cox
Notary Public

Print Name: Robert 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:

Alex L
Name: Alex Greenberg
Cameron Delavigne
Name: Cameron Delavigne

TENANT:

The Towers, LLC
a Delaware limited liability company

Tim Shine
By: Tim Shine
Name: SVP
Title: 7-27-2023
Date:

Leasing Ops ^{DS} 19

STATE OF FLORIDA

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this July 27
_____, 20 23 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. Marrs and Rhonda K. Marrs 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. Marrs and Rhonda K. Marrs, 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 Hunt

Name: Mary Hunt

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:

Alex L
Name: Alex Greenberg
Cameron Odjourne
Name: Cameron Odjourne

TENANT:

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} 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.

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. Marrs and Rhonda K. Marrs 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. Marrs and Rhonda K. Marrs, 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.

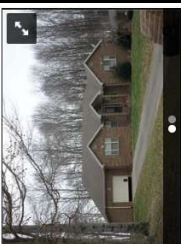
Said interest being over land more particularly described by the following description:

Insert metes and bounds description of area

PID	Name	Address	City	State	Zip	Screenshot
25-005-01	Gary Mark & Danny & Pam Huber	80 Camelot Dr	Campbellsville	KY	42718	
25-005-01-03	George R & Rhonda Marrs	769 Salem Church Rd	Campbellsville	KY	42718	
25-005	James William Marrs Jr. & Angela Dawn Akin & Kendall Mary Elizabeth	55 Bethel Hill Rd	Campbellsville	KY	42718	

33-026	Bobby & Patricia Pierce	530 Salem Church Rd	Campbellsville	KY	42718	qPublic.net™ Taylor County, KY PVA LayersMapSearchResultsReportSales SearchSales ListSales ResultsTax EstimatorHomePictometry Images Parcel Summary Map Number33-026 Account Number174915 (PID: 43237 PTID: 174915) Location Address530 SALEM CHURCH RD Tax District01 County and County School HomesteadNo 2023 Tax Rate0.9685 Property ClassFARM DescriptionHOUSE & 98 ACRE FARM Acres98.4 Deed Information241J431 View Map For more information regarding the Flood Zone in Taylor County (CLICK HERE) Owner Information Current Owner PIERCE BOBBY & PATRICIA 530 SALEM CHURCH RD CAMPBELLVILLE KY 42718 
33-026A	Bobby & Patricia Pierce	530 Salem Church Rd	Campbellsville	KY	42718	qPublic.net™ Taylor County, KY PVA LayersMapSearchResultsReportSales SearchSales ListSales ResultsTax EstimatorHomePictometry Images Parcel Summary Map Number33-026A Account Number180690 (PID: 437493 PTID: 180690) Location Address530 SALEM CHURCH RD Tax District01 County and County School HomesteadYes 2023 Tax Rate0.9685 Property ClassRESIDENTIAL DescriptionHOUSE & 1 ACRE Acres1 Deed Information123J080 View Map For more information regarding the Flood Zone in Taylor County (CLICK HERE) Owner Information Current Owner PIERCE BOBBY & PATRICIA 530 SALEM CHURCH RD CAMPBELLVILLE KY 42718 

33-027-01	Logan & Madison Johnson	382 Salem Church Rd	Campbellsville	KY	42718	Taylor County, KY PVA Layers Map Search Results Report Sales Search Sales List Sales Results Tax Estimator Home Pictometry Image Parcel Summary Map Number 33-027-01 Account Number 177961 (PID: 434683 PTID: 177961) Location Address 382 SALEM CHURCH RD Tax District 01 County and County School Homestead No 2023 Tax Rate 0.9685 Property Class RESIDENTIAL Description HOUSE 6.0 9417 ACRES Acres 0.9617 Deed Information 326/476 View Map For more information regarding the Flood Zone in Taylor County. (CLICK HERE) Owner Information Current Owner JOHNSON LOGAN & MADISON 382 SALEM CHURCH RD CAMPBELLVILLE KY 42718
33-027-01A	Goodwin Caitlin & Miller Michael	322 Salem Church Rd	Campbellsville	KY	42718	Taylor County, KY PVA Layers Map Search Results Report Sales Search Sales List Sales Results Tax Estimator Home Pictometry Image Parcel Summary Map Number 33-027-01A Account Number 184553 (PID: 440832 PTID: 184553) Location Address 322 SALEM CHURCH RD Tax District 01 County and County School Homestead No 2023 Tax Rate 0.9685 Property Class RESIDENTIAL Description M/H & TRACT 1A (1.5275@) Acres 1.5275 Deed Information 322/392 View Map For more information regarding the Flood Zone in Taylor County. (CLICK HERE) Owner Information Current Owner GOODWIN CAITLIN & MILLER MICHAEL 322 SALEM CHURCH RD CAMPBELLVILLE KY 42718

33-027-04	Angela Gail Cochran & Mary Katlin Cochran	344 Salem Church Rd	Campbellsville	KY	42718	qPublic.net™ Taylor County, KY PVA Layers ▾ Map Search Results Report Sales SearchSales ListSales ResultsTax EstimatorHome Pictometry Image Parcel Summary Map Number 33-027-04 Account Number 181790 (PID: 438489 PTID: 181790) Location Address 344 SALEM CHURCH RD Tax District 01 County and County School Homestead Yes 2023 Tax Rate 0.9683 Property Class RESIDENTIAL Description 2 HOUSES & TR# 4 (6.9401@) Acres 6.94 Deed Information 3407562 View Map For more information regarding the Flood Zone in Taylor County, CLICK HERE Owner Information Current Owner COCHRAN ANGELA GAIL & COCHRAN MARY KATLIN 344 SALEM CHURCH RD CAMPBELLVILLE KY 42718 
25-005-01-02	Larry & Lisa Lyons	379 Salem Church Rd	Campbellsville	KY	42718	qPublic.net™ Taylor County, KY PVA Layers ▾ Map Search Results Report Sales SearchSales ListSales ResultsTax EstimatorHome Pictometry Image Parcel Summary Map Number 25-005-01-02 Account Number 189720 (PID: 437254 PTID: 189720) Location Address 379 SALEM CHURCH RD Tax District No Homestead No 2023 Tax Rate 0.9683 Property Class RESIDENTIAL Description HOUSE & 1.00 ACRE LOT & GARAGE Acres 1 Deed Information 2317503 View Map For more information regarding the Flood Zone in Taylor County, CLICK HERE Owner Information Current Owner LYONS LARRY & LISA 379 SALEM CHURCH RD CAMPBELLVILLE KY 42718 

25-005-01-01	Charles Dunlap & Joseph Dunlap & Carmen Dunlap & Skyler Dunlap- Newcomb	Campbellsville	KY	42718	 qPublic.net™ Taylor County, KY PVA Layers Map Search Results Report Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery Print Share Star Fullscreen ↶ ↷ Parcel Summary Map Number 25-005-01-01 Account Number 174493 (PID: 431842 PTD: 174493) Location Address 335 SALEM CHURCH RD Tax District 01 County and County School Homestead No 2023 Tax Rate 0.9685 Property Class RESIDENTIAL Description HOUSE & 1 ACRE Acres 1 Deed Information 356/757 View Map For more information regarding the Flood Zone in Taylor County, CLICK HERE Owner Information Current Owner DUNLAP CHARLES & DUNLAP JOSEPH DUNLAP CARMEN & NEWCOMB SKYLER DUNLAP 335 SALEM CHURCH RD CAMPBELLVILLE, KY 42718
25-007	Salem Baptist Church	Campbellsville	KY	42718	 qPublic.net™ Taylor County, KY PVA Layers Map Search Results Report Sales Search Sales List Sales Results Tax Estimator Home Pictometry Imagery Print Share Star Fullscreen ↶ ↷ Parcel Summary Map Number 25-007 Account Number 172088 (PID: 429622 PTD: 172088) Location Address 271 SALEM CHURCH RD Tax District 01 County and County School Homestead No 2023 Tax Rate 0.9685 Property Class EXEMPT PROPERTIES Description CHURCH BUILDING & LOT Acres N/A Deed Information 297/178 View Map For more information regarding the Flood Zone in Taylor County, CLICK HERE Owner Information Current Owner SALEM BAPTIST CHURCH 271 SALEM CHURCH RD CAMPBELLVILLE, KY 42718

25-006	Patsy Walters	109 Laurel Ln	Campbellsville	KY	42718	qPublic.net™ Taylor County, KY PVA LayersMapSearchResultsReportSales SearchSales ListSales ResultsTax EstimatorHomePictometry Images Parcel Summary Map Number25-006 Account Number178994 (PID: 435984 PTID: 178994) Location Address421 REED MOSS LANE Tax District01 County and County School HomesteadNo 2023 Tax Rate0.9685 Property ClassFARM DescriptionHOUSE & 143.74 ACRES Acres143.74 Deed Information3467357 View Map For more information regarding the Flood Zone in Taylor County (CLICK HERE) Owner Information Current OwnerWALTERS, PATSY 109 LAUREL LANE CAMPELLSVILLE KY 42718 qPublic.net™ Taylor County, KY PVA LayersMapSearchResultsReportSales SearchSales ListSales ResultsTax EstimatorHomePictometry Images Parcel Summary Map Number25-002-04 Account Number184622 (PID: 440897 PTID: 184622) Location AddressNGE RD Tax District01 County and County School HomesteadNo 2023 Tax Rate0.9685 Property ClassFARM DescriptionTR 64 (19.36 ACRES) Acres19.36 Deed Information3477358 View Map For more information regarding the Flood Zone in Taylor County (CLICK HERE) Owner Information Current OwnerBENNINGFIELD JOHN & CARA 353 CARVER LANE ALVATON, KY 42122
25-002-04	John & Cara Benningfield	353 Carver Ln	Alvaton	KY	42122	qPublic.net™ Taylor County, KY PVA LayersMapSearchResultsReportSales SearchSales ListSales ResultsTax EstimatorHomePictometry Images Parcel Summary Map Number25-002-04 Account Number184622 (PID: 440897 PTID: 184622) Location AddressNGE RD Tax District01 County and County School HomesteadNo 2023 Tax Rate0.9685 Property ClassFARM DescriptionTR 64 (19.36 ACRES) Acres19.36 Deed Information3477358 View Map For more information regarding the Flood Zone in Taylor County (CLICK HERE) Owner Information Current OwnerBENNINGFIELD JOHN & CARA 353 CARVER LANE ALVATON, KY 42122 qPublic.net™ Taylor County, KY PVA LayersMapSearchResultsReportSales SearchSales ListSales ResultsTax EstimatorHomePictometry Images Parcel Summary Map Number25-002-04 Account Number184622 (PID: 440897 PTID: 184622) Location AddressNGE RD Tax District01 County and County School HomesteadNo 2023 Tax Rate0.9685 Property ClassFARM DescriptionTR 64 (19.36 ACRES) Acres19.36 Deed Information3477358 View Map For more information regarding the Flood Zone in Taylor County (CLICK HERE) Owner Information Current OwnerBENNINGFIELD JOHN & CARA 353 CARVER LANE ALVATON, KY 42122

qPublic.net™ Taylor County, KY PVA					Joseph Calkos ▾ Search	
Layers ▾ Map Search Results Report					Sales Search Sales List Sales Results Tax Estimator Home Pictometry Image	
25-004	Tommie Alexander Browning	638 Noe Rd	Campbellsville	KY	42718	Parcel Summary Map Number 25-004 Account Number 171135 (PID: 428761 PTID: 171135) Address 638 Noe Rd Tax District 01 County and County School Homestead No 2025 Tax Rate 0.9685 Property Class FARM Description HOUSE & 32 ACRE FARM (TRACTS 1 & 2) Acres 32 Deed Information 342/324 View Map For more information regarding the Flood Zone in Taylor County, CLICK HERE Owner Information Current Owner BROWNING TOMMIE ALEXANDER 638 NOE RD CAMPBELLVILLE KY 42718 



ClarkQuinn

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 26, 2026

**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 facility was previously granted approval for construction by the Public Service Commission on January 24, 2025; however, KAR 278.020(1)(e) requires construction to commence within one (1) year from the date of grant. Due to several factors, the construction of the tower did not commence and now requires a re-submission of the request. This re-submission is identical to the tower granted in 2025 and will not result in duplicate towers at the location.

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 2026-00133 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.

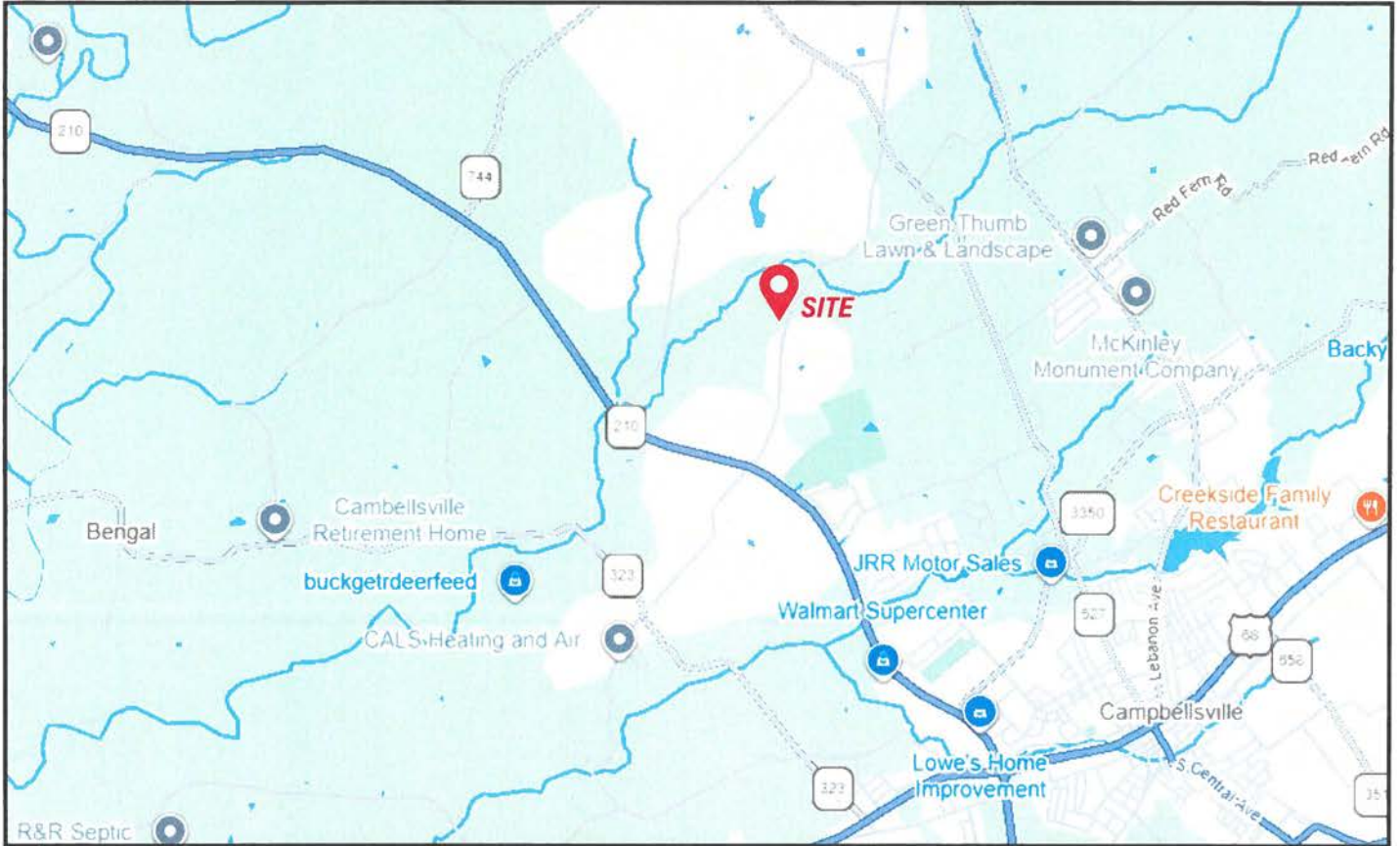
Sincerely,
Russell L. Brown



Attorney for Applicant

RLB/mnw
enclosure

LOCATION MAPS | KY 5182 FAIRWAY | 601 SALEM CHURCH RD; CAMPBELLVILLE KY 42718



ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGESM PITNEY BOWES
ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Gary Mark & Danny & Pam Huber
80 Camelot Drive
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGESM PITNEY BOWES
ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

George R & Rhonda Marrs
769 Salem Church Rd
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGESM PITNEY BOWES
ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

James William Marrs Jr. &
Angela Dawn Akin &
Kendall Mary Elizabeth
55 Bethel Hill Road
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGE PAID PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Bobby & Patricia Pierce
530 Salem Church Road
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGE PAID PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Logan & Madison Johnson
382 Salem Church Road
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGE PAID PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Goodwin Caitlin & Miller Michael
322 Salem Church Road
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGETM PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Angela Gail Cochran &
Mary Katlin Cochran
344 Salem Church Road
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGETM PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Larry & Lisa Lyons
379 Salem Church Road
Campbellsville, KY 42718

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGETM PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Charles Dunlap & Joseph Dunlap
& Carmen Dunlap & Skyler
Dunlap-Newcomb
335 Salem Church Road
Campbellsville, IN 42718

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGE[®] IMI PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Salem Baptist Church
271 Salem Church Road
Campbellsville, KY 42718

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGE[®] IMI PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Patsy Walters
109 Laurel Lane
Campbellsville, KY 42718

ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



FIRST-CLASS



US POSTAGE[®] IMI PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

John & Cara Benningfield
353 Carver Lane
Alvaton, KY 42122

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®



9589 0710 5270 1687 8989 94

FIRST-CLASS



US POSTAGE[®] PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Tommie Alexander Browning
638 Noe Road
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:

Patsy Walters
109 Laurel Lane
Campbellsville, KY 42718



9590 9402 9112 4225 8407 05

2. Article Number (Transfer from service label)

9589 0710 5270 1687 8989 70

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Tristan Walters*☒ Agent☐ Addressee

B. Received by (Printed Name)

Tristan Walters

C. Date of Delivery

5/29/20

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

421 Reed Moss Lane
Campbellsville, KY 42718

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

1 Mail
1 Mail Restricted Delivery
500)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bobby & Patricia Pierce
530 Salem Church Road
Campbellsville, KY 42718



9590 9402 9112 4225 8422 97

2. Article Number (Transfer from service label)

9589 0710 5270 1687 8989 01

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Patricia Pierce*☐ Agent☒ Addressee

B. Received by (Printed Name)

Patricia Pierce

C. Date of Delivery

5/29

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
Mail Restricted Delivery
00)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Charles Dunlap & Joseph Dunlap
& Carmen Dunlap & Skyler
Dunlap-Newcomb
335 Salem Church Road
Campbellsville, IN 42718



9590 9402 9112 4225 8422 42

2. Article Number (Transfer from service label)

9589 0710 5270 1687 8989 56

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Charles Dunlap*☐ Agent☐ Addressee

B. Received by (Printed Name)

Charles Dunlap

C. Date of Delivery

5/29

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

Mail
Mail Restricted Delivery
00)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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.	A. Signature ☐ 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
1. Article Addressed to: Tommie Alexander Browning 638 Noe Road Campbellsville, KY 42718  9590 9402 9112 4225 8406 82	3. Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 9589 0710 5270 1687 8989 94	Mail Mail Restricted Delivery (00)
PS Form 3811, July 2020 PSN 7530-02-000-9053	

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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.	A. Signature ☐ 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
1. Article Addressed to: Logan & Madison Johnson 382 Salem Church Road Campbellsville, KY 42718  9590 9402 9112 4225 8422 80	3. Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 9589 0710 5270 1687 8989 18	Mail Mail Restricted Delivery (00)
PS Form 3811, July 2020 PSN 7530-02-000-9053	

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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.	A. Signature ☐ 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
1. Article Addressed to: Angela Gail Cochran & Mary Katlin Cochran 344 Salem Church Road Campbellsville, KY 42718  9590 9402 9112 4225 8422 66	3. Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
2. Article Number (Transfer from service label) 9589 0710 5270 1687 8989 32	Mail Mail Restricted Delivery (00)
PS Form 3811, July 2020 PSN 7530-02-000-9053	

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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.	A. Signature <u>Nary Marrs</u> ☐ Agent ☐ Addressee <u>X Mary Marrs</u> 6/2/26
1. Article Addressed to: James William Marrs Jr. & Angela Dawn Akin & Kendall Mary Elizabeth 55 Bethel Hill Road Campbellsville, KY 42718	B. Received by (Printed Name) <u>Mary Marrs</u> C. Date of Delivery
2. Article Number (Transfer from service label) 9590 9402 9112 4225 8423 03	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☐ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail (over \$500)
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
■ 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.	A. Signature <u>Michael E Goodwin</u> ☐ Agent ☐ Addressee <u>X Michael E Goodwin</u>
1. Article Addressed to: Salem Baptist Church 271 Salem Church Road Campbellsville, KY 42718	B. Received by (Printed Name) <u>Michael E Goodwin</u> C. Date of Delivery <u>June 3 2026</u>
2. Article Number (Transfer from service label) 9590 9402 9112 4225 8407 43	3. Service Type ☐ Adult Signature ☐ Priority Mail Express® ☐ Adult Signature Restricted Delivery ☐ Registered Mail™ ☐ Certified Mail® ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail (over \$500)
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
■ 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: George R & Rhonda Marrs 769 Salem Church Rd Campbellsville, KY 42718  9590 9402 9112 4225 8423 10 2. Article Number (Transfer from service label) 9589 0710 5270 1687 8984 20	A. Signature <i>Rhonda K. Marrs</i> ☐ Agent ☒ Addressee B. Received by (Printed Name) _____ C. Date of Delivery <u>06/06/06</u> D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No 3. Service Type <table style="width: 100%; font-size: 0.8em;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☐ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Signature Confirmation™</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td>☐ Insured Mail</td> <td></td> </tr> <tr> <td>☐ Mail Restricted Delivery (00)</td> <td></td> </tr> </table>	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☐ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Signature Confirmation™	☐ Collect on Delivery	☐ Signature Confirmation Restricted Delivery	☐ Collect on Delivery Restricted Delivery		☐ Insured Mail		☐ Mail Restricted Delivery (00)	
☐ Adult Signature	☐ Priority Mail Express®																
☐ Adult Signature Restricted Delivery	☐ Registered Mail™																
☐ Certified Mail®	☐ Registered Mail Restricted Delivery																
☐ Certified Mail Restricted Delivery	☐ Signature Confirmation™																
☐ Collect on Delivery	☐ Signature Confirmation Restricted Delivery																
☐ Collect on Delivery Restricted Delivery																	
☐ Insured Mail																	
☐ Mail Restricted Delivery (00)																	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt																	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
■ 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: John & Cara Benningfield 353 Carver Lane Alvaton, KY 42122  9590 9402 9112 4225 8406 99 2. Article Number (Transfer from service label) 9589 0710 5270 1687 8989 87	A. Signature <i>[Signature]</i> ☐ 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 <table style="width: 100%; font-size: 0.8em;"> <tr> <td>☐ Adult Signature</td> <td>☐ Priority Mail Express®</td> </tr> <tr> <td>☐ Adult Signature Restricted Delivery</td> <td>☐ Registered Mail™</td> </tr> <tr> <td>☐ Certified Mail®</td> <td>☐ Registered Mail Restricted Delivery</td> </tr> <tr> <td>☐ Certified Mail Restricted Delivery</td> <td>☐ Signature Confirmation™</td> </tr> <tr> <td>☐ Collect on Delivery</td> <td>☐ Signature Confirmation Restricted Delivery</td> </tr> <tr> <td>☐ Collect on Delivery Restricted Delivery</td> <td></td> </tr> <tr> <td>☐ Insured Mail</td> <td></td> </tr> <tr> <td>☐ Mail Restricted Delivery (00)</td> <td></td> </tr> </table>	☐ Adult Signature	☐ Priority Mail Express®	☐ Adult Signature Restricted Delivery	☐ Registered Mail™	☐ Certified Mail®	☐ Registered Mail Restricted Delivery	☐ Certified Mail Restricted Delivery	☐ Signature Confirmation™	☐ Collect on Delivery	☐ Signature Confirmation Restricted Delivery	☐ Collect on Delivery Restricted Delivery		☐ Insured Mail		☐ Mail Restricted Delivery (00)	
☐ Adult Signature	☐ Priority Mail Express®																
☐ Adult Signature Restricted Delivery	☐ Registered Mail™																
☐ Certified Mail®	☐ Registered Mail Restricted Delivery																
☐ Certified Mail Restricted Delivery	☐ Signature Confirmation™																
☐ Collect on Delivery	☐ Signature Confirmation Restricted Delivery																
☐ Collect on Delivery Restricted Delivery																	
☐ Insured Mail																	
☐ Mail Restricted Delivery (00)																	
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt																	

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Larry & Lisa Lyons
379 Salem Church Road
Campbellsville, KY 42718



9590 9402 9112 4225 8422 59

2. Article Number (Transfer from service label)

9589 0710 5270 1687 8989 49

COMPLETE THIS SECTION ON DELIVERY
A. Signature

X *Larry Lyons*

- ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Larry Lyons

C. Date of Delivery

6-8-26

D. Is delivery address different from item 1?

If YES, enter delivery address below:

- ☐ Yes
☐ No

3. Service Type

- | | |
|--|---|
| ☐ Adult Signature | ☐ Priority Mail Express® |
| ☐ Adult Signature Restricted Delivery | ☐ Registered Mail™ |
| ☒ Certified Mail® | ☐ Registered Mail Restricted Delivery |
| ☐ Certified Mail Restricted Delivery | ☐ Signature Confirmation™ |
| ☐ Collect on Delivery | ☐ Signature Confirmation Restricted Delivery |
| ☐ Collect on Delivery Restricted Delivery | |
| ☐ Insured Mail | |
| ☐ Registered Mail Restricted Delivery (500) | |

ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP

2/3
2/13

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL®



9589 0710 5270 1687 8989 25

INDIANAPOLIS IN 460

27 MAY 2026 PM 2 L

FIRST-CLASS



US POSTAGETM PITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

NL
209

Goodwin Caitlin & Miller Michael
322 Salem Church Road
Campbellsville, KY 42718

NIXIE 402 CE 1 0206/
RETURN TO SENDER
NO MAIL RECEPTACLE
UNABLE TO FORWARD
MANUAL PROC REQ *1812-08650

5699899999
42718-057022



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

June 30, 2026

**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 facility was previously granted approval for construction by the Public Service Commission on January 24, 2025; however, KAR 278.020(1)(e) requires construction to commence within one (1) year from the date of grant. Due to several factors, the construction of the tower did not commence and now requires a re-submission of the request. This re-submission is identical to the tower granted in 2025 and will not result in duplicate towers at the location.

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 2026-00133 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.

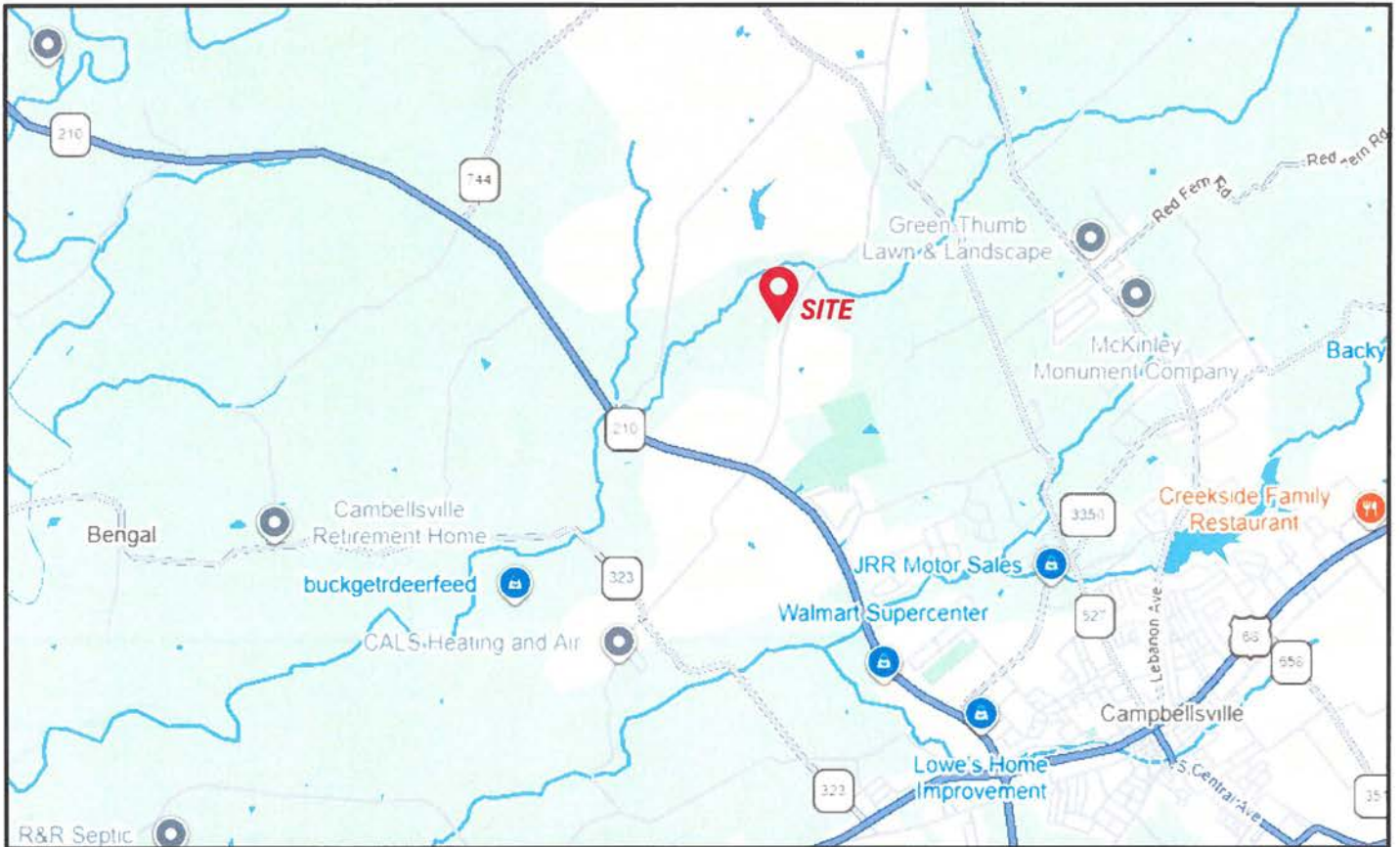
Sincerely,
Russell L. Brown



Attorney for Applicant

RLB/mnw
enclosure

LOCATION MAPS | KY 5182 FAIRWAY | 601 SALEM CHURCH RD; CAMPBELLVILLE KY 42718



ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®



9589 0710 5270 1687 9002 77

Gary Mark & Danny & Pam Huber
80 Camelot Drive
Campbellsville, KY 42718

FIRST-CLASS



US POSTAGE[®]IMIPITNEY BOWES

ZIP 46204 \$ 010.44⁰
02 7H
0006035028 JUN 30 2026



ClarkQuinn

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 26, 2026

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.

This facility was previously granted approval for construction by the Public Service Commission on January 24, 2025; however, KAR 278.020(1)(e) requires construction to commence within one (1) year from the date of grant. Due to several factors, the construction of the tower did not commence and now requires a re-submission of the request. This re-submission is identical to the tower granted in 2025 and will not result in duplicate towers at the location.

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 2026-00133 in any correspondence sent in connection with this matter.

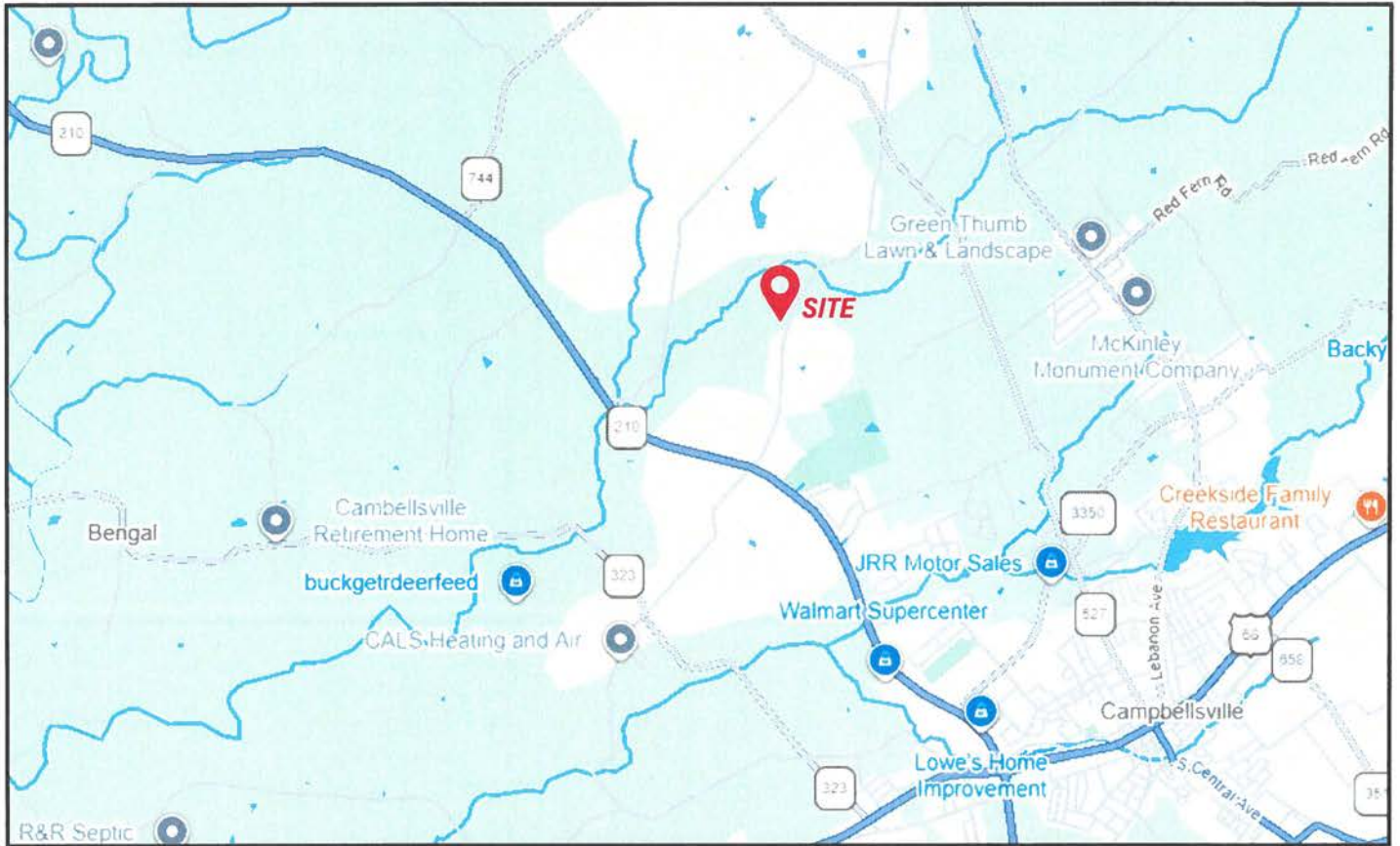
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,
Russell L. Brown



Attorney for Applicant

LOCATION MAPS | KY 5182 FAIRWAY | 601 SALEM CHURCH RD; CAMPBELLVILLE KY 42718



ClarkQuinn
ark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL®



9589 0710 5270 1687 8994 34

FIRST-CLASS



US POSTAGE^{IM} PITNEY BOWES



ZIP 46204 \$ 010.44⁰
02 7H
0006035028 MAY 26 2026

Hon. Barry Smith
Taylor County Judge/Executive
203 North Court Street
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:

Hon. Barry Smith
Taylor County Judge/Executive
203 North Court Street
Campbellsville, KY 42718



9590 9402 9112 4225 8406 75

2. Article Number (Transfer from service label)

9589 0710 5270 1687 8994 34

COMPLETE THIS SECTION ON DELIVERY**A. Signature**

X *Julie Dennis* ☒ Agent
☐ Addressee

B. Received by (Printed Name)*Julie Dennis***C. Date of Delivery***5/29/26***D. Is delivery address different from item 1? ☐ Yes**If YES, enter delivery address below: ☐ No**3. Service Type**

- | | |
|--|---|
| ☐ Adult Signature | ☐ Priority Mail Express® |
| ☐ Adult Signature Restricted Delivery | ☐ Registered Mail™ |
| ☐ Certified Mail® | ☐ Registered Mail Restricted Delivery |
| ☐ Certified Mail Restricted Delivery | ☐ Signature Confirmation™ |
| ☐ Collect on Delivery | ☐ Signature Confirmation Restricted Delivery |
| ☐ Collect on Delivery Restricted Delivery | |
| ☐ Insured Mail | |

Mail Restricted Delivery
(00)

**SITE NAME: FAIRWAY
NOTICE SIGNS**

The signs are at least two (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 VB BTS II, LLC d/b/a Vertical Bridge propose to construct a telecommunications **TOWER** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott, & Grahm, LLP, 320 N Meridian St; Indianapolis IN 46204; 317-637-1321 or the Executive Director, Public Service Commission, 211 Sower Boulevard; PO Box 615; Frankfort KY 40602. Please refer to docket number 2026-00133 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a Vertical Bridge propose to construct a telecommunications **TOWER** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott, & Grahm, LLP, 320 N Meridian St; Indianapolis IN 46204; 317-637-1321 or the Executive Director, Public Service Commission, 211 Sower Boulevard; PO Box 615; Frankfort KY 40602. Please refer to docket number 2026-00133 in your correspondence.



ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

Robert B. Scott
Charles R. Grahn
Frank D. Otte*
John "Bart" Herriman
William W. Gooden**
Russell L. Brown**†
Travis W. Cohron
Michael P. Maxwell
Keith L. Beall
John M. Mead
Jennifer F. Perry
Clark P. Kirkman
Kristin A. McKinney
Olivia A. Hess
Kelly M. Shaw

May 26, 2026

VIA EMAIL: legals@cknj.com
Central Kentucky News-Journal
200 Albion Way
Campbellsville KY 42718

Land Use Consultants
Elizabeth Bentz Williams, AICP
Joseph M. Csikos, 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 Central Kentucky News-Journal Publication:

NOTICE

Cellco Partnership, d/b/a Verizon Wireless and VB BTS II, LLC d/b/a 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 self-supporting tower, plus a 10-foot lightning arrestor and related ground facilities.

You have a right to submit comments to the PSC or request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615; Frankfort KY 40602. Please refer to docket number 2026-00133 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, LLP, 320 North Meridian Street, Suite 1100; Indianapolis IN 46204 or by email to jcsikos@clarkquinnlaw.com. Please call with any questions at 317-637-1321 extension 319. Thank you for your assistance.

Sincerely,

Joseph M. Csikos, AICP

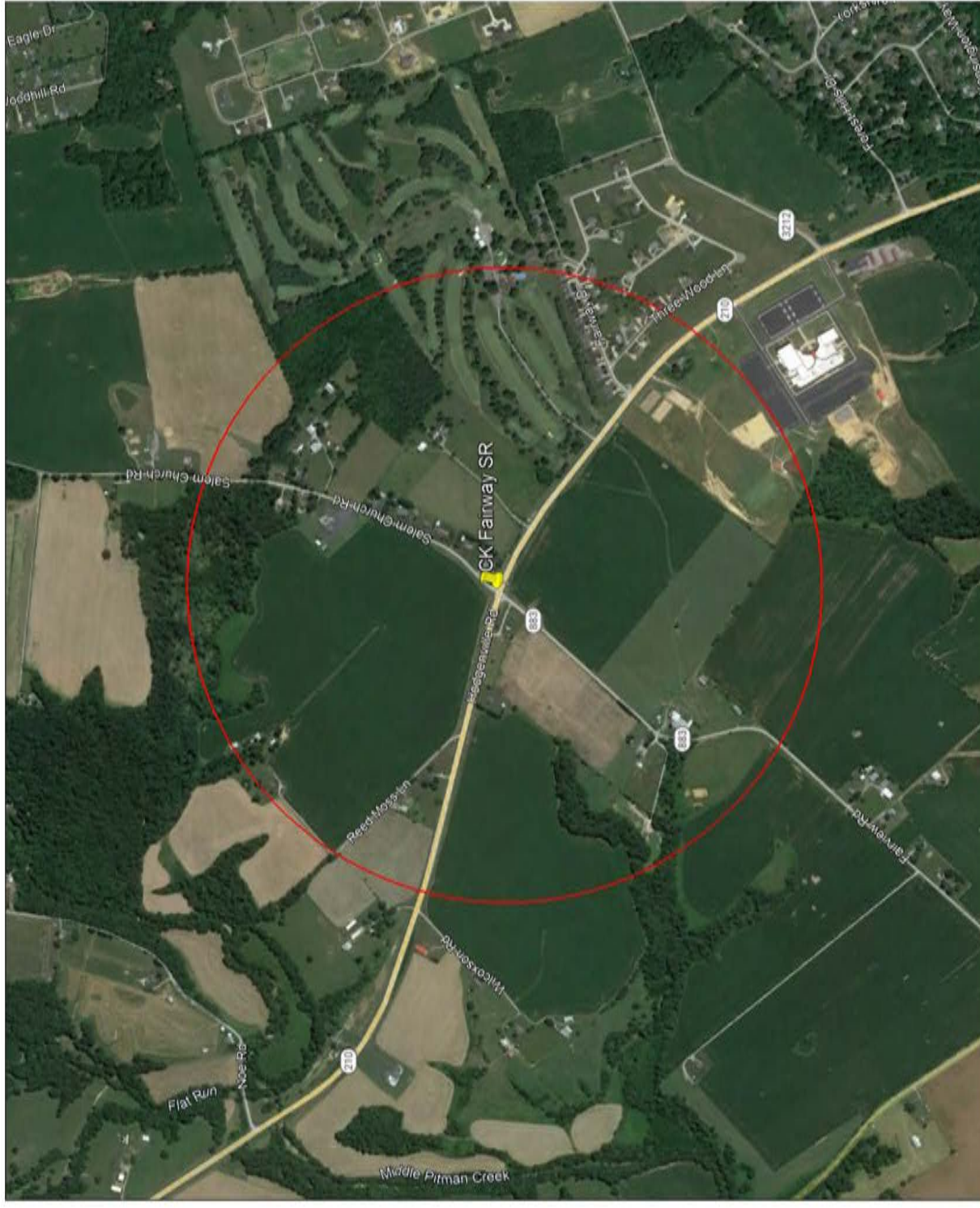
CK Fairway – Search Ring

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,

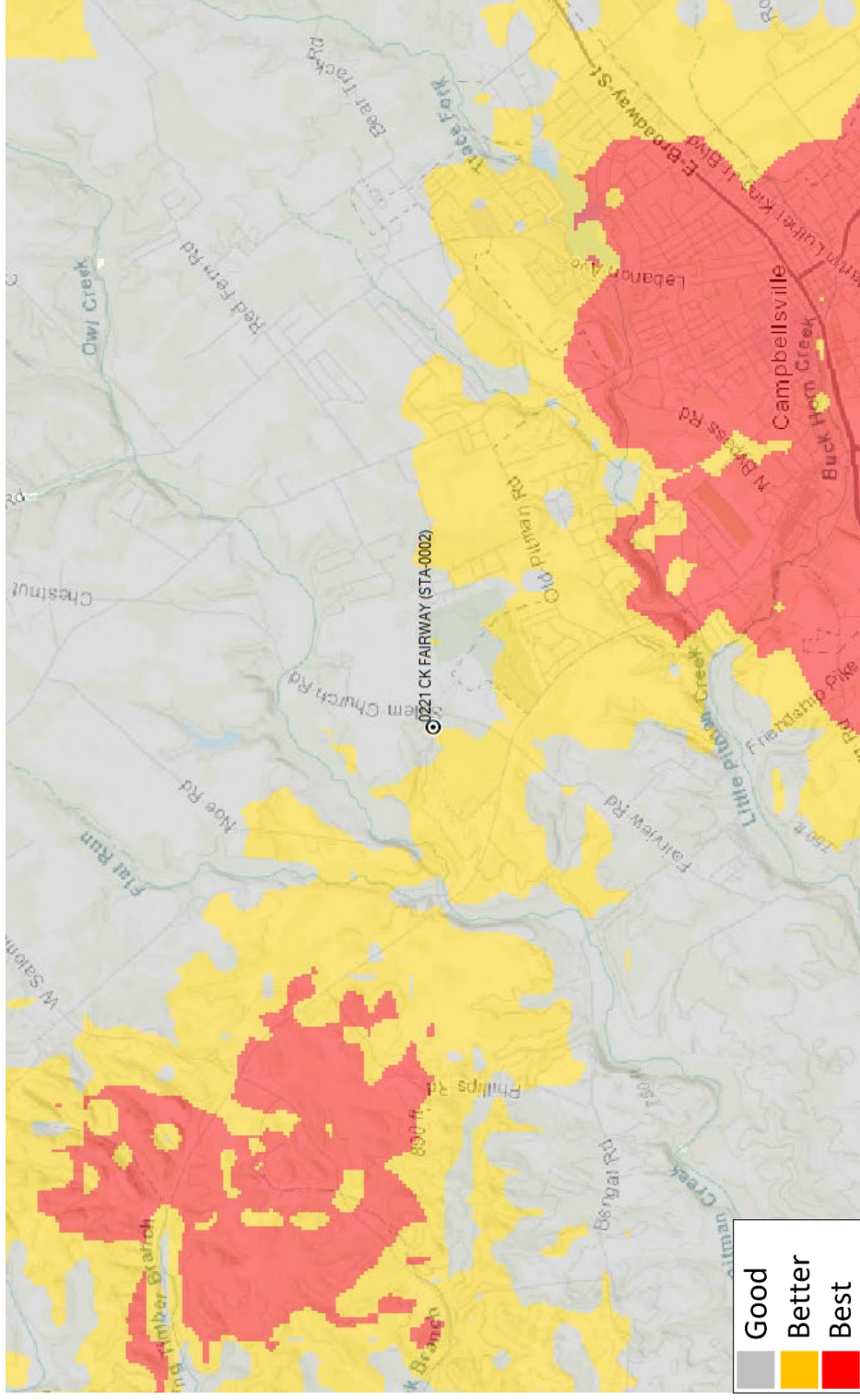
A handwritten signature in black ink, appearing to read "S. Belcher", written over a horizontal line.

Steven Belcher
Sr. RF Engineer
Verizon Wireless





Current Coverage - Without proposed site CK Fairway



KY 5182 | CK FAIRWAY
List and Identity and Qualifications of Professionals

Mark E Patterson
Professional Engineer
Kentucky License 16300
Power of Design Group, LLC
11490 Bluegrass Parkway
Louisville KY 40299

Mark E Patterson
Professional Land Surveyor
Kentucky License 3136
Power of Design Group, LLC
11490 Bluegrass Parkway
Louisville KY 40299

Jason Mark Lambert
Professional Engineer
Kentucky License 28217
Nello Industries
1201 S Sheridan Street
South Bend IN 46619

Vince Caprino
Vertical Bridge REIT, LLC
22 West Atlantic Avenue, Suite 310
Delray Beach FL 33444

Steven Belcher
Sr. 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 and The Towers, LLC d/b/a Vertical Bridge 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
and The Towers, LLC d/b/a Vertical Bridge

STATE OF INDIANA)
) SS:
COUNTY OF MARION)

Subscribed and sworn to before me this 8th day of July 2026.



Notary Public

Printed Name of Notary: Joseph M. Csikos

My Commission Expires: August 5, 2033

My County of Residence: Johnson

Commission No. NP0765036

