COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

| THE APPLICATION OF |) |
|-----------------------------------------|------------------------|
| NEW CINGULAR WIRELESS PCS, LLC, |) |
| A DELAWARE LIMITED LIABILITY COMPANY, | j . |
| D/B/A AT&T MOBILITY | j |
| AND UNITI TOWERS LLC, A DELAWARE | ĵ |
| LIMITED LIABILITY COMPANY | j |
| FOR ISSUANCE OF A CERTIFICATE OF PUBLIC |) CASE NO.: 2020-00365 |
| CONVENIENCE AND NECESSITY TO CONSTRUCT |) |
| A WIRELESS COMMUNICATIONS FACILITY |) |
| IN THE COMMONWEALTH OF KENTUCKY |) |
| IN THE COUNTY OF ROCKCASTLE |) |
| | <i></i> |

SITE NAME: MCGUIRE RELO / MT. VERNON

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company ("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 Applicants with wireless communications services.

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

information:

- 1. The complete names and addresses of the Applicants are: New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having an address of Meidinger Tower, 462 S. 4th Street, Suite 2400, Louisville, Kentucky 40202 and Uniti Towers LLC, a Delaware limited liability company having an address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock, Arkansas 72211.
- 2. Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicants submit this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.
- 3. AT&T Mobility is a limited liability company organized in the State of Delaware on October 20, 1994. Uniti Towers is a limited liability company organized in the State of Delaware on December 2, 2015.
- 4. Applicants attest that they are in good standing in the state in which they are organized and further state that they are authorized to transact business in Kentucky.
- 5. The Certificates of Authority filed with the Kentucky Secretary of State for both Applicants are attached as part of **Exhibit A** pursuant to 807 KAR 5:001: Section 14(3).
- 6. AT&T Mobility operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. Copies of AT&T Mobility's FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in

accordance with applicable FCC regulations.

- 7. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve AT&T Mobility's services to an area currently not served or not adequately served by AT&T Mobility by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in AT&T Mobility's communications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in AT&T Mobility's network design that must be in place to provide adequate coverage to the service area.
- 8. To address the above-described service needs, Applicants propose to construct a WCF at Old U.S. Hwy 25, Mt. Vernon, KY 40456 (37° 21' 11.74" North latitude, 84° 19' 38.27" West longitude), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by VADD Company pursuant to a deed recorded at Deed Book 187, Page 303 in the office of the County Clerk. The proposed WCF will consist of a 330-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 342-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of AT&T Mobility's radio electronics equipment and appurtenant equipment. The Applicants' equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the

manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

- 9. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.
- 10. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for AT&T Mobility's antennas has also been included as part of **Exhibit B**.
- 11. Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of **Exhibit C**.
- 12. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate AT&T Mobility's antennas on an existing structure. When suitable towers or structures exist, AT&T Mobility attempts to co-locate on existing structures such as communications towers or other structures capable of supporting AT&T Mobility's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.
- 13. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.
 - 14. A copy of the approval issued by the Kentucky Airport Zoning Commission

("KAZC") for the proposed construction is attached as Exhibit F.

- 15. A geotechnical engineering firm has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.
- 16. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit H**. The name and telephone number of the preparer of **Exhibit H** are included as part of this exhibit.
- 17. Uniti Towers LLC, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreements or abbreviated agreements recorded with the County Clerk are attached as **Exhibit I**.
- 18. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit C** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations.
- 19. The Construction Manager for the proposed facility is Jeremy Culpepper and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.

- 20. As noted on the Survey attached as part of **Exhibit B**, the surveyor has determined that the site is not within any flood hazard area.
- 21. **Exhibit B** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). Every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system is illustrated in **Exhibit B**.
- 22. Applicants have notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and has been informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.
- 23. Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit L**.
 - 24. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section

- 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit M**. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as part of **Exhibit M**.
- 25. The general area where the proposed facility is to be located is rural and heavily wooded.
- 26. The process that was used by AT&T Mobility'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. AT&T Mobility's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by AT&T Mobility. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant

to radio frequency requirements is attached as Exhibit N.

- 27. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area.
- 28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.
- 29. All responses and requests associated with this Application may be directed to:

David A. Pike Pike Legal Group, PLLC 1578 Highway 44 East, Suite 6 P. O. Box 369 Shepherdsville, KY 40165-0369 Telephone: (502) 955-4400

Telefax:

(502) 543-4410

Email:

dpike@pikelegal.com

WHEREFORE, Applicants respectfully request that the PSC accept the foregoing Application for filing, and having met the requirements of KRS §§ 278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,

David A. Pike

Pike Legal Group, PLLC

1578 Highway 44 East, Suite 6

I a Relse

P. O. Box 369

Shepherdsville, KY 40165-0369

Telephone: (502) 955-4400 Telefax: (502) 543-4410

Email: dpike@pikelegal.com

Attorney for Applicants

LIST OF EXHIBITS

Α Certificate of Authority & FCC License Documentation

В Site Development Plan:

> 500' Vicinity Map **Legal Descriptions**

Flood Plain Certification

Site Plan

Vertical Tower Profile

C Tower and Foundation Design

Competing Utilities, Corporations, or Persons List D

FAA Ε

F Kentucky Airport Zoning Commission

G Geotechnical Report

Н Directions to WCF Site

1 Copy of Real Estate Agreement

Notification Listing J

Copy of Property Owner Notification K

L Copy of County Judge/Executive Notice

Copy of Posted Notices and Newspaper Notice Advertisement М

Ν Copy of Radio Frequency Design Search Area

EXHIBIT A CERTIFICATE OF AUTHORITY & FCC LICENSE DOCUMENTATION

Commonwealth of Kentucky Alison Lundergan Grimes, Secretary of State

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

Certificate of Authorization

Authentication number: 216

Visit https://app.sos.ky.gov/ftshow/certvalidate.aspx to authenticate this certificate.

I, Alison Lundergan Grimes, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

NEW CINGULAR WIRELESS PCS, LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on October 14, 1999.

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 28th day of May, 2019, in the 227th year of the Commonwealth.



Alison Lundergan Grimes

Secretary of State

Commonwealth of Kentucky

216299/0481848



0972004.06

mstratton

Alison Lundergan Grimes Kentucky Secretary of State Received and Filed: 1/3/2017 3:10 PM Fee Receipt: \$90.00

COMMONWEALTH OF KENTUCKY ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

| Business Filings PO Box 718 Frankfort, KY 40602 (502) 564-3490 www.sos.ky.gav | Certificate of Authority (Foreign Business Enti | ty) | | FBE |
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| Pursuant to the provisions of KRS to on behalf of the entity named below | 14A and KRS 271B, 273, 274,275, 362 and 3 v and, for that purpose, submits the following | 886 the undersigned her | eby applies for a | uthority to transact business in Kentuck |
| 1. The entity is a : profit busin | corporation (KRS 271B) nonprofit co | orporation (KRS 273). lity company (KRS 275). | | onal service corporation (KRS 274), onal limited liability company (KRS 275 |
| Line home of the chilly is | Towers LLC ne must be identical to the name on record with | the Secretary of State.) | | |
| 3. The name of the entity to be use | (Only provide | if "real name" is unavailal | ble for use; otherv | wise, leave blank.) |
| 4. The state or country under whos | e law the entity is organized is Delaware | | | |
| 5. The date of organization is 12/2 | 2/2015 | nd the period of duration | | |
| | | | (1) | fleft blank, the period of duration is considered perpetual.) |
| The mailing address of the entity 10802 Executive Center D | Orive, Benton Building, Suite 300 | Little Rock | AR | 72211 |
| Street Address | | City | State | Zip Code |
| 7 The street address of the entity's 306 West Main Street - S | 10 D. Maria C. C. | Frankfort | KY | 40601 |
| Street Address (No P.O. Box Numbers | | City | State | Zip Code |
| | nt at that office is C T Corporation S | | 9.7703323 | ACTE CONTROL |
| | sses of the entity's representatives (secretary | | managers, truste | ees or general partners): |
| Daniel L. Heard | 10802 Executive Center Drive, Benton Building, Suite 300 | Little Rock | AR | 72211 |
| Name | Street or P.O. Box | City | State | Zip Code |
| Kenneth Gunderman | 10802 Executive Center Drive, Benton Building, Suite 300 | Little Rock | AR | 72211 |
| Name | Street or P.O. Box | City | State | Zip Code |
| | 10802 Executive Center Drive, Benton Building, Suite 300 | Little Rock | AR | 72211 |
| | | | | |
| | Street or P.O. Box | City | State | Zip Code |
| more states or territories of the United State 10. I certify that, as of the date of fill 11. If a limited partnership, it elect | ne individual shareholders, not less than one half (1/2) as or District of Columbia to render a professional servicing this application, the above-named entity to be a limited liability limited partnership | of the directors, and all of the te described in the statement validly exists under the la | officers other than the of purposes of the ca | ne secretary and treasurer are licensed in one or progration. |
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<u>Delaware</u>

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF

DELAWARE, DO HEREBY CERTIFY "UNITI TOWERS LLC" IS DULY FORMED UNDER

THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A

LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF

THE THIRTIETH DAY OF DECEMBER, A.D. 2016.

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

5896640 8300

SR# 20167345793

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

Authentication: 203613650

Date: 12-30-16

REFERENCE COPY

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



Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON NEW CINGULAR WIRELESS PCS, LLC 208 S AKARD ST., RM 1016 DALLAS, TX 75202

| Call Sign KNKN965 | File Number |
|----------------------|---------------------|
| | Service Cellular |
| Market Numer | Channel Block |
| CMA448 | В |
| Sub-Marke | t Designator |
| | 0 |

FCC Registration Number (FRN): 0003291192

| Market Name | |
|----------------------|---|
| Kentucky 6 - Madison | ı |

| Grant Date | Effective Date | Expiration Date | Five Yr Build-Out Date | Print Date |
|------------|----------------|---------------------|------------------------|------------|
| 08-30-2011 | 08-31-2018 | 10-01 -20 21 | | |

Site Information:

| Location | Latitude | Longitude | Ground Elevation | Structure Hgt to Tip | Antenna Structure |
|----------|--------------|---------------|------------------|----------------------|-------------------|
| | | | (meters) | (meters) | Registration No. |
| 4 | 37-24-34.0 N | 084-19-48.0 W | 449.6 | 110.0 | 1043626 |

Address: Burdette Rd (105167)

City: WILDIE County: ROCKCASTLE State: KY Construction Deadline:

| Antenna: 2 | | | | | | | | |
|-------------------------------------|---------|---------|---------|---------|---------|----------------------|-----------------|---------|
| Maximum Transmitting ERP in Watts: | 140.820 | | | | | 194 _{50 to} | | |
| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (meters) | 211.200 | 144.500 | 148.400 | 190.800 | 163,400 | 170. 700 | 205.900 | 192.000 |
| Transmitting ERP (watts) Antenna: 3 | 61.200 | 28.600 | 3.100 | 0.200 | 0.122 | 0.200 | 3.900 | 32.100 |
| Maximum Transmitting ERP in Watts: | 140.820 | | | | 10 | | | |
| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (meters) | 211.200 | 144,500 | 148.400 | 190.800 | 163,400 | 170.700 | 205.900 | 192.000 |
| Transmitting ERP (watts) | 0.400 | 0.500 | 13.000 | 99.800 | 198.200 | 83.200 | 6.800 | 0.900 |
| Antenna: 4 | 0.100 | 0.500 | 15.000 | ,,,,,,, | 110.20 | 100.20 | 0.000 | 0.700 |
| Maximum Transmitting ERP in Watts: | 140.820 | | | | * 1 | | | |
| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (meters) | 211.200 | 144,500 | 148.400 | 190.800 | 163,400 | 170.700 | 205.900 | 192.000 |
| Transmitting ERP (watts) | 6.800 | 0.900 | 0.400 | 0.500 | 13.000 | 99.800 | 198. 200 | 83.200 |

Conditions:

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

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| Address: 208 DAVIS LA | NE (86925) | | | | | | | | |
| City: Mount Vernon Co | ALCOHOL STATE | KCASTLE | State: | KY Con | struction I | Deadline: | | | |
| | | | | | | | | | |
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| Transmitting ERP (watts) Antenna: 2 | . 9 | 193.700 1 22. 700 | 137.500 52.400 | 148.900 5.400 | 151.500 0.300 | 164.200 0.245 | 185.600 0.300 | 160.000 8.700 | 178.000 63.000 |
| Maximum Transmitting EF | | 140.820 | | | | | | | |
| Azimuth(from true not Antenna Height AAT (mete | | 102 700 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Transmitting ERP (watts) Antenna: 3 | 15) | 193.700 1.600 | 137.500 18.200 | 148.900 93.100 | 151.500 111.900 | 164.200 26.300 | 185.600 2.500 | 160.000 0.300 | 178.000 0.400 |
| Antenna. 3 Maximum Transmitting EF | RP in Watts: | 140.820 | | | | | | | |
| | rth) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Azimuth(from true nor | | | | | 151 500 | 164.200 | 185,600 | 160.000 | 178.000 |
| Antenna Height AAT (mete | ers) | 193.700 | 137.500 | 148.900 | 151.500 | | | | |
| Antenna Height AAT (meter Transmitting ERP (watts) | ers) | 1.800 | 137.500 0. 400 | 148.900 0.400 | 6.700 | 55.500 | 186.500 | 141.700 | 15.300 |
| Antenna Height AAT (mete Transmitting ERP (watts) | ers) ————— Longi | 1.800 | 0. 400 Gr | 0.400 ound Elev | 6.700 Str | 55.500 ructure Hg | 186.500 | 141.700 Antenna St | 15.300 ructure |
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| Antenna Height AAT (mete Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB | Longi 084-1 ERT ROAD | 1.800 tude 9-39.5 W 0 (67666) | 0.400 Gr (m 33 | 0.400 cound Eleveters) 9.2 | 6.700 Stration Str. (m. 110 | 55.500 ructure Hg eters) | 186.500 t to Tip | 141.700 Antenna St Registratio | 15.300 ructure |
| Antenna Height AAT (mete Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB | Longi 084-1 ERT ROAD | 1.800 tude 9-39.5 W | 0.400 Gr (m 33 | 0.400 ound Elev | 6.700 Stration Str. (m. 110 | 55.500 ructure Hg eters) | 186.500 t to Tip | 141.700 Antenna St Registratio | 15.300 ructure |
| Antenna Height AAT (mete Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON | Longi 084-1 ERT ROAD | 1.800 tude 9-39.5 W 0 (67666) | 0.400 Gr (m 33 | 0.400 cound Eleveters) | 6.700 Stration Str. (m. 110 | 55.500 ructure Hg eters) | 186.500 t to Tip | 141.700 Antenna St Registratio | 15.300 ructure |
| Antenna Height AAT (mete Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 | Longi 084-1 ERT ROAD County: | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS | 0.400 Gr (m 33 | 0.400 cound Eleveters) | 6.700 Stration Str. (m. 110 | 55.500 ructure Hg eters) | 186.500 t to Tip | 141.700 Antenna St Registratio | 15.300 ructure |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting EF Azimuth(from true no) | Longi 084-19 ERT ROAD County: RP in Watts: | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 | 0.400 Gr (m 333 STLE \$ | 0.400 cound Eleveters) | 6.700 Stration Str. (m. 110 | 55.500 ructure Hgreters) 0.3 tion Deadli | 186.500 t to Tip | Antenna St Registratio 1204267 | ructure n No. |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting EF Azimuth(from true not) Antenna Height AAT (meter | Longi 084-19 ERT ROAD County: RP in Watts: | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 | 0.400 Gr (m 333 STLE \$ 45 123.500 | 0.400 cound Eleveters) 9.2 tate: KY 90 30.000 | 6.700 ration Str (m 110 Construct 135 52.900 | 55.500 ructure Hgreters) 0.3 tion Deadli 180 101.900 | 186.500 t to Tip | 141.700 Antenna St Registratio 1204267 270 108.700 | 15.300 ructure n No. |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting EF Azimuth(from true not) Antenna Height AAT (meter) | Longi 084-19 ERT ROAD County: RP in Watts: | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 | 0.400 Gr (m 333 STLE \$ | ound Eleveters) 9.2 tate: KY | 6.700 ration Str (m 110 Construct | 55.500 ructure Hgreters) 0.3 tion Deadli | 186.500 t to Tip | Antenna St Registratio 1204267 | ructure n No. |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting ER Azimuth(from true not Antenna Height AAT (meter Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP (watts) Antenna: 2 | Longi 084-19 ERT ROAD County: RP in Watts: rth) ers) | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 74.600 140.820 | 0.400 G1 (m) 33 STLE S 45 123.500 66.500 | 0.400 cound Eleveters) 9.2 tate: KY 90 30.000 10.300 | 6.700 ration Str (m 110 Construct 135 52.900 0.900 | 55.500 ructure Hgieters) 0.3 tion Deadli 180 101.900 0.149 | 186.500 t to Tip | 141.700 Antenna St Registratio 1204267 270 108.700 2.100 | 15.300 ructure n No. 315 136.400 19.600 |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting ERAzimuth(from true not Antenna Height AAT (meter Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERAzimuth(from true not Antenna: 2 Maximum Transmitting ERAzimuth(from true not not Azimuth(from true | Longi 084-14 ERT ROAD County: RP in Watts: rth) ers) RP in Watts: | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 74.600 140.820 0 | 0.400 Gr (m) 333 STLE S 45 123.500 66.500 | 0.400 cound Eleveters) 9.2 tate: KY 90 30.000 10.300 | 6.700 ation Str (m 110 Construct 135 52.900 0.900 | 55.500 ructure Hgreters) 0.3 tion Deadli 180 101.900 0.149 180 | 186.500 t to Tip ne: 225 117.900 0.200 | 270 108.700 270 | 15.300 ructure n No. 315 136.400 19.600 |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting EF Azimuth(from true non Antenna Height AAT (meter Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP (watts) Antenna Height AAT (meter Transmitting ERP (watts) Azimuth(from true non Antenna Height AAT (meter Transmitting ERP (watts) | Longi 084-14 ERT ROAD County: RP in Watts: rth) ers) RP in Watts: | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 74.600 140.820 0 132.000 | 0.400 Gr (m) 333 STLE S 45 123.500 66.500 45 123.500 | 0.400 cound Eleveters) 9.2 tate: KY 90 30.000 10.300 90 30.000 | 135 52,900 0.900 | 55.500 ructure Hgieters) 0.3 tion Deadli 180 101.900 0.149 180 101.900 | 186.500 t to Tip ne: 225 117.900 0.200 225 117.900 | 270 108.700 270 108.700 2.100 | 315 136.400 19.600 |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting ERAzimuth(from true non Antenna Height AAT (meter Transmitting ERP (watts)) Antenna: 2 Maximum Transmitting ERAzimuth(from true non Antenna Height AAT (meter Transmitting ERP (watts)) Antenna Height AAT (meter Transmitting ERP (watts)) Antenna: 3 | Longi 084-19 ERT ROAD County: RP in Watts: rth) ers) RP in Watts: rth) | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 74.600 140.820 0 132.000 0.500 | 0.400 Gr (m) 333 STLE S 45 123.500 66.500 | 0.400 cound Eleveters) 9.2 tate: KY 90 30.000 10.300 | 6.700 ation Str (m 110 Construct 135 52.900 0.900 | 55.500 ructure Hgreters) 0.3 tion Deadli 180 101.900 0.149 180 | 186.500 t to Tip ne: 225 117.900 0.200 | 270 108.700 270 | 315 136.400 19.600 |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting ERAzimuth(from true not Antenna Height AAT (meter Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERAzimuth(from true not Antenna Height AAT (meter Transmitting ERP (watts) Antenna: 3 Maximum Transmitting ERP (watts) Antenna: 3 Maximum Transmitting ERP (watts) Antenna: 3 | Longi 084-19 ERT ROAD County: RP in Watts: rth) ers) RP in Watts: rth) ers) | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 74.600 140.820 0 0.500 140.820 | 0.400 Gr (m) 333 STLE S 45 123.500 66.500 45 123.500 0.500 | 90 30.000 10.300 90 30.000 11.300 | 135 52,900 0.900 138 52,900 108,100 | 55.500 ructure Hgreters) 0.3 tion Deadli 180 101.900 0.149 180 101.900 236.600 | 186.500 t to Tip ne: 225 117.900 0.200 225 117.900 118.500 | 270 108.700 270 108.700 2.100 270 108.700 7.800 | 315 136.400 19.600 315 136.400 1.100 |
| Antenna Height AAT (meter Transmitting ERP (watts) Location Latitude 14 37-30-14.0 N Address: 151 JIM LAMB City: MOUNT VERNON Antenna: 1 Maximum Transmitting ERAzimuth(from true non Antenna Height AAT (meter Transmitting ERP (watts)) Antenna: 2 Maximum Transmitting ERAzimuth(from true non Antenna Height AAT (meter Transmitting ERP (watts)) Antenna Height AAT (meter Transmitting ERP (watts)) Antenna: 3 | Longi 084-19 ERT ROAD County: RP in Watts: rth) ers) RP in Watts: rth) ers) | 1.800 tude 9-39.5 W 0 (67666) ROCKCAS 140.820 0 132.000 74.600 140.820 0 132.000 0.500 | 0.400 Gr (m) 333 STLE S 45 123.500 66.500 45 123.500 | 0.400 cound Eleveters) 9.2 tate: KY 90 30.000 10.300 90 30.000 | 135 52,900 0.900 | 55.500 ructure Hgieters) 0.3 tion Deadli 180 101.900 0.149 180 101.900 | 186.500 t to Tip ne: 225 117.900 0.200 225 117.900 | 270 108.700 270 108.700 2.100 | 315 136.400 19.600 |



Call Sign: KNKN965 **Print Date:** File Number:

| | 06-2 8.8 N | Longitude 083-58-14 | | (m | ound Elev eters) 9.8 | | Structuro (meters) 59.7 | e Hgt to Tip | Antenna S Registration 1251801 | |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|--------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------------------|---------------------------------|
| | 0 L ick Fork Roa | 228. | | | | | | | | |
| City: London | County: LAU | JREL Sta | te: KY | Constr | uction Dea | adline: | | | | |
| Azimuth | nsmitting ERP in (from true north) nt AAT (meters) ERP (watts) | 0 13 | 259 174 | 45 116.400 16.100 | 90 135.500 1.700 | 135 105.70 0.200 | 180 0 114.9 0.100 | | 270 115.700 2.000 | 315 116.100 16.100 |
| Azimuth | insmitting ERP in (from true north) it AAT (meters) ERP (watts) | 0 13 | \$4.5 | 45 116.400 2 0.600 | 90 135.500 105.700 | 135 105.70 127.10 | - | | 270 115.700 0.300 | 315 116.100 0.400 |
| Azimuth | insmitting ERP in (from true north) it AAT (meters) | 0 | | 45 116.400 | 90 135.500 | 135 105.70 | | 225 900 136.800 | | 315 116.100 |
| | ERP (watts) | 2.: | 100 | 0.423 | 0.423 | 7.600 | 63.00 | 00 211.700 | 160.900 | 17.400 |
| Location La | titude | Longitude | e | Gr (m | ound Elev eters) | ation | Structure (meters) | 211.700 Hgt to Tip | Antenna S Registratio | tructure |
| Location La 19 37- | titude 06-39.3 N | Longitude 084-02-46 | e 5.7 W | Gr (m | ound Elev | ation | Structure | | Antenna S | tructure |
| Location La 19 37- Address: 102 | titude 06-39.3 N STONEHENGE | Longitude 084-02-46 DRIVE (37 | e 5.7 W 7535) | Gr (m 46 | ound Elev eters) 3.2 | ation | Structure (meters) 30.5 | | Antenna S Registratio | tructure |
| Location La 19 37- Address: 102 | titude 06-39.3 N STONEHENGE | Longitude 084-02-46 DRIVE (37 | e 5.7 W | Gr (m 46 | ound Elev eters) | ation | Structure (meters) 30.5 | | Antenna S Registratio | tructure |
| Location La 19 37- Address: 102 City: LONDO Antenna: 1 Maximum Tra | titude 06-39.3 N STONEHENGE ON County: L. | Longitude 084-02-46 E DRIVE (37 AUREL S | 6.7 W 7535) State: K | Gr (m 46 Y Con | ound Eleveters) 3.2 struction 1 | ation Deadline | Structure (meters) 30.5 | e Hgt to Tip | Antenna S Registratio 1229456 | tructure on No. |
| Location La 19 37- Address: 102 City: LONDO Antenna: 1 Maximum Tra Azimuth Antenna Heigh Transmitting I Antenna: 2 | titude 06-39.3 N STONEHENGE ON County: L Insmitting ERP in (from true north) It AAT (meters) ERP (watts) | Longitude 084-02-46 E DRIVE (37 AUREL S Watts: 1400 144 70 | 6.7 W 7535) State: K 820 4.000 | Gr (m 46 | ound Elev eters) 3.2 | ation | Structure (meters) 30.5 | 225 500 130.100 | Antenna S Registratio 1229456 | 315 129.600 |
| Location La 19 37- Address: 102 City: LONDO Antenna: 1 Maximum Tra Azimuth Antenna Heigh Transmitting I Antenna: 2 Maximum Tra Azimuth | titude 06-39.3 N STONEHENGE ON County: L. Insmitting ERP in (from true north) Int AAT (meters) ERP (watts) Insmitting ERP in (from true north) Int AAT (meters) | Ungitude 084-02-46 E DRIVE (37 AUREL S 1 Watts: 140 0 144 70 1 Watts: 140 0 144 140 140 144 140 140 144 | 6.7 W 7535) State: K 820 4.000 .300 .820 | Gr (m) 46. TY Con. | ound Eleverers) 3.2 struction 1 90 122.000 | ation Deadline 135 126.40 | Structure (meters) 30.5 e: 180 0 140.6 180 0 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 180 140.6 180 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 140.6 1 | 225 500 130.100 0.200 225 500 130.100 | Antenna S Registratio 1229456 270 134.900 4.500 | tructure on No. |



| Location | | | gitude | | round Elev leters) | | ructure Hg neters) | t to Tip | Antenna Structure Registration No. | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|
| | 37-06- 03.7 N | | -46-43.5 W | 34 | 0.2 | 10 | 06.4 | | 1247464 | |
| Address: | 499 Happy Ri | dge Road (8 | 6919) | | | | | | | |
| City: Nand | cy County: | PULASKI | State: KY | Constr | uction Dea | ıdline: | | | | |
| | | | | | | | | | | |
| Antenna: 1 | | | | | | | | | | |
| | Transmitting 1 | | | | | | | | | |
| | nuth(from true r eight AAT (me | | 0 113,200 | 45 126.700 | 90 | 135 | 180 | 225 | 270 | 315 |
| | ng ERP (watts | | 16.300 | 10.100 | 136.700 1.100 | 137.900 0.100 | 142.000 0.100 | 130.800 0.100 | 101.800 1.200 | 102.000 10.100 |
| | Transmitting l | | s: 140.8 20 | | | | | | | |
| | outh(from true reight AAT (me | | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| | ng ERP (watts | | 113.200 2.800 | 126.700 38.100 | 136.700 190.900 | 137.900 224.300 | 142.000 48.000 | 130.800 2.100 | 101.800 0.500 | 102.000 0.500 |
| | Transmitting l | ERP in Watts | s: 1 40 .820 | | | | | | | |
| Azin | nuth(from true r | orth) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| A . TT | * 1 A A DEC | | | | | 105.000 | 142 000 | 130.800 | 101.800 | 102.000 |
| | eight AAT (me | | 113.200 | 126.700 | 136.700 | 137.900 | 142.000 | | | |
| | eight AAT (me | | 113.200 0.100 | 126.700 0.100 | 136.700 0.100 | 0.300 | 1.300 | 1.700 | 1.900 | 0.700 |
| | ng ERP (watts | <u> </u> | A | 0 .100 G i | | 0.300 vation St | | 1.700 | 1.900 Antenna St | 0.700 |
| Transmitti Location | ng ERP (watts | Lon | 0.100 | 0.100 Gr (m | 0.100 cound Elev | 0.300 vation St | 1.300 ructure Hg neters) | 1.700 | 1.900 | 0.700 |
| Transmitti Location 21 | Latitude 37-11-18.1 N | Lon 084- | 0.100 gitude | 0.100 Gr (m | 0.100 cound Elevieters) | 0.300 vation St | 1.300 ructure Hg neters) | 1.700 | 1.900 Antenna So Registratio | 0.700 |
| Location 21 Address: 2 | Latitude 37-11-18.1 N 233 US 25 No | Lon 084- | 0.100 gitude -08-34.4 W | 0,100 Gr (m 37 | 0.100 cound Elevieters) | 0.300 vation St (n 75 | 1.300 ructure Hg neters) | 1.700 | 1.900 Antenna So Registratio | 0.700 |
| Location 21 Address: 2 | Latitude 37-11-18.1 N 233 US 25 No | Long 084- rth (37533) | 0.100 gitude -08-34.4 W | 0,100 Gr (m 37 | 0.100 round Elevieters) 7.0 | 0.300 vation St (n 75 | 1.300 ructure Hg neters) | 1.700 | 1.900 Antenna So Registratio | 0.700 |
| Location 21 Address: 2 City: East | Latitude 37-11-18.1 N 233 US 25 No | Long 084- rth (37533) | 0.100 gitude -08-34.4 W | 0,100 Gr (m 37 | 0.100 round Elevieters) 7.0 | 0.300 vation St (n 75 | ructure Hg neters) | 1.700 | 1.900 Antenna So Registratio | 0.700 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C | Long 084- rth (37533) County: LA | 0.100 gitude :08-34.4 W :UREL Sta | 0,100 Gr (m 37 | 0.100 round Elevieters) 7.0 | 0.300 vation St (n 75 | ructure Hg neters) | 1.700 | 1.900 Antenna So Registratio | 0.700 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azim | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting Inuth(from true r | Long 084- rth (37533) County: LAN ERP in Watts orth) | 0.100 gitude 0.08-34.4 W UREL Sta 140.820 0 | 0.100 Gr (m 37 ate: KY | 0.100 cound Eleveters) 7.0 Constructi | vation St (n 75 ion Deadli | 1.300 ructure Hg neters) 5.0 ne: | 1.700 t to Tip | 1.900 Antenna So Registratio 1227530 | 0.700 ructure n No. |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna H | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting I nuth(from true reight AAT (me | Long 084- rth (37533) County: LAN ERP in Watts orth) | 0.100 gitude 0.08-34.4 W UREL Sta 140.820 0 109.000 | 0.100 Gr (m 37 ate: KY | 0.100 round Elevieters) 7.0 Constructi 90 96.400 | 0.300 vation St (n 75 ion Deadlii 135 83.500 | 1.300 ructure Hg neters) 6.0 ne: | 1.700 t to Tip | 1.900 Antenna So Registratio 1227530 270 101.200 | 0.700 ructure n No. 315 103.800 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna H Transmitti | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting I nuth(from true reight AAT (meng ERP (watts) | Long 084- rth (37533) County: LAN ERP in Watts orth) | 0.100 gitude 0.08-34.4 W UREL Sta 140.820 0 | 0.100 Gr (m 37 ate: KY | 0.100 cound Eleveters) 7.0 Constructi | vation St (n 75 ion Deadli | 1.300 ructure Hg neters) 5.0 ne: | 1.700 t to Tip | 1.900 Antenna So Registratio 1227530 | 0.700 ructure n No. 315 103.800 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azim Antenna H Transmitti Antenna: 2 Maximum | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting Intult(from true reight AAT (mentioning ERP (watts)) | Longon 1984. The (37533) County: LAI ERP in Watts orth) ters) ERP in Watts | 0.100 gitude 0.08-34.4 W UREL Sta 140.820 0 109.000 116.900 1: 140.820 | 0.100 Gr (m) 37 ate: KY 45 105.900 5.400 | 0.100 cound Eleveters) 7.0 Constructi 90 96.400 1.300 | 0.300 vation St (n 75 on Deadli 135 83.500 0.706 | 1.300 ructure Hg neters) 5.0 ne: 180 90.300 2.000 | 1.700 t to Tip 225 96.500 31.400 | 1.900 Antenna St Registratio 1227530 270 101.200 227.900 | 0.700 ructure n No. 315 103.800 353.200 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna H Transmitti Antenna: 2 Maximum Azin Azinum | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting Inth(from true reight AAT (meng ERP (watts) Transmitting Inth(from true reight AT) | Long 084- rth (37533) County: LAb ERP in Watts orth) ters) ERP in Watts | 0.100 situde 0.08-34.4 W UREL Sta 1.09.000 116.900 116.900 1140.820 0 | 0.100 Gr (m) 37 ate: KY 45 105.900 5.400 | 0.100 cound Eleveters) 7.0 Constructi 90 96.400 1.300 | 0.300 vation St (n 75 on Deadli 135 83.500 0.706 | 1.300 ructure Hg neters) 5.0 ne: 180 90.300 2.000 | 1.700 t to Tip 225 96.500 31.400 | 1.900 Antenna St Registratio 1227530 270 101.200 227.900 | 0.700 ructure n No. 315 103.800 353.200 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna H Transmitti Antenna: 2 Maximum Azin Antenna H | Latitude 37-11-18.1 N 233 US 25 No Bernstadt Transmitting Inuth(from true reight AAT (meang ERP (watts)) Transmitting Inuth(from true reight AAT (meang ERP (watts)) | Long 084- rth (37533) County: LAN ERP in Watts orth) ters) ERP in Watts orth) | 0.100 situde 0.08-34.4 W UREL Sta 140.820 0 109.000 116.900 i: 140.820 0 109.000 | 0.100 Gr (m) 37 ate: KY 45 105.900 5.400 | 90 96.400 90 96.400 | 0.300 vation St (m 75 on Deadli 135 83.500 0.706 | 1.300 ructure Hg neters) 5.0 ne: 180 90.300 2.000 180 90.300 | 1.700 t to Tip 225 96.500 31.400 225 96.500 | 1.900 Antenna St Registratio 1227530 270 | 0.700 ructure n No. 315 103.800 353.200 315 103.800 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna: 2 Maximum Azin Antenna: 1 Transmitti Antenna: 1 Transmitti | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting I nuth(from true r eight AAT (me ng ERP (watts) Transmitting I nuth(from true r eight AAT (me ng ERP (watts) | Long 084- rth (37533) County: LAl ERP in Watts orth) ters) ERP in Watts orth) ters) | 0.100 gitude :08-34.4 W UREL Sta :: 140.820 0 109.000 116.900 :: 140.820 0 109.000 8.800 | 0.100 Gr (m) 37 ate: KY 45 105.900 5.400 | 0.100 cound Eleveters) 7.0 Constructi 90 96.400 1.300 | 0.300 vation St (n 75 on Deadli 135 83.500 0.706 | 1.300 ructure Hg neters) 5.0 ne: 180 90.300 2.000 | 1.700 t to Tip 225 96.500 31.400 | 1.900 Antenna St Registratio 1227530 270 101.200 227.900 | 0.700 ructure n No. 315 103.800 353.200 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna H Transmitti Antenna: 2 Maximum Azin Antenna H Transmitti Antenna: 3 Maximum Aximum Azin Antenna: 3 | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting I nuth(from true r eight AAT (me ng ERP (watts) Transmitting I nuth(from true r eight AAT (me ng ERP (watts) Transmitting I | Long 084- rth (37533) County: LAl ERP in Watts orth) ters) ERP in Watts orth) ters) | 0.100 gitude .08-34.4 W UREL Sta .:: 140.820 | 0.100 Gr (m) 37 ate: KY 45 105.900 5.400 45 105.900 72.700 | 90 96.400 1.300 90 96.400 203.500 | 0.300 Pation St (m 75 ion Deadli 135 83.500 0.706 135 83.500 125.800 | 1.300 ructure Hg neters) 5.0 ne: 180 90.300 2.000 180 90.300 12.400 | 225 96.500 31.400 225 96.500 1.500 | 1.900 Antenna St Registratio 1227530 270 | 315 103.800 353.200 315 103.800 0.407 |
| Transmitti Location 21 Address: 2 City: East Antenna: 1 Maximum Azin Antenna H Transmitti Antenna: 2 Maximum Azin Antenna H Transmitti Antenna: 3 Maximum Azin | Latitude 37-11-18.1 N 233 US 25 No Bernstadt C Transmitting I nuth(from true r eight AAT (me ng ERP (watts) Transmitting I nuth(from true r eight AAT (me ng ERP (watts) | Long 084- rth (37533) County: LAb ERP in Watts orth) ters) ERP in Watts orth) ters) | 0.100 gitude :08-34.4 W UREL Sta :: 140.820 0 109.000 116.900 :: 140.820 0 109.000 8.800 | 0.100 Gr (m) 37 ate: KY 45 105.900 5.400 | 90 96.400 90 96.400 | 0.300 vation St (m 75 on Deadli 135 83.500 0.706 | 1.300 ructure Hg neters) 5.0 ne: 180 90.300 2.000 180 90.300 | 1.700 t to Tip 225 96.500 31.400 225 96.500 | 1.900 Antenna St Registratio 1227530 270 | 0.700 ructure n No. 315 103.800 353.200 315 103.800 |



| | | i Sp. | | | | | | | | |
|---------------------------------|----------------------------------------------------------------------------|--------------|-----------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------|-----------------------------------------|----------------------------------|--------------------------------|
| Location | Latitude | Long | itude | | Fround Elev meters) | | Structure Hg (meters) | t to Tip | Antenna Se Registratio | |
| 22 | 37-14-1 3.8 N | 084-1 | 3-43.8 W | 3 | 69.7 | | 97.5 | | 1201300 | |
| | Route #1, Box 1 | off war and | , | | | | | | | |
| City: East | Bernstadt Co | unty: LAU | REL Sta | te: KY | Constructi | ion Deac | lline: | | | |
| Antenna: 1 | Transmitting ER | P in Watts | 140 820 | | *** | | | | | |
| Azim Antenna H Transmitti | nuth(from true nor eight AAT (mete ng ERP (watts) | th) | 0 110.700 64.700 | 45 99.200 126.200 | 90 115.800 53.800 | 135 90.900 5.500 | 180 91.900 0.300 | 225 120.600 0.300 | 270 111.300 0.300 | 315 82.000 8.900 |
| Antenna: 2 | | D :- 33/-44- | | | ••••• | | 0.000 | | | 0.700 |
| Azim Antenna H | Transmitting ER nuth(from true nor eight AAT (mete ng ERP (watts) | th) | 110.700 2.000 | 45 99.200 31.000 | 90 115.800 224.800 | 135 90.900 348.30 | | 225 120.600 5.300 | 270 111.300 1.200 | 315 82.000 0.700 |
| | Transmitting ER | P in Watts: | 140.820 | | | | | | | |
| Azin | nuth(from true nor | th) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| | eight AAT (mete ng ERP (watts) | rs) | 110.700 147.600 | 99.200 9.500 | 115.800 1.600 | 90.900 0.600 | 91.900 0.600 | 120.600 14.000 | 111.300 128.700 | 82.000 295.600 |
| | | • | 147.000 | 3.300 | 1.000 | 0.000 | 0.000 | 14.000 | 120.700 | 293.000 |
| Location 23 | | Longi | | (u | Fround Elev meters) | | Structure Hg (meters) | t to Tip | Antenna So Registratio | |
| | 37-09-08.0 N | | 8-58.5 W | ું ક | 50.8 | | 106.7 | | 1229865 | |
| | 31 Laddie (3771 | , | | | | | | | | |
| City: Some | erset County: | PULASKI | State: F | CY Cor | astruction I |)eadline | : | | | |
| Antenna: 1 | Transmitting ER | P in Watte | 140 820 | E. | | | | | | |
| Azim Antenna H | nuth(from true nor eight AAT (mete ng ERP (watts) | th) | 0 123.200 11.500 | 45 125.000 89.000 | 90 89.000 176.600 | 135 126.70 74.200 | | 225 130.600 0.800 | 270 152.500 0.400 | 315 128.900 0.400 |
| Maximum Azim Antenna H | Transmitting ER nuth(from true nor eight AAT (mete ng ERP (watts) | th) | 140.820 0 123.200 0.400 | 45 125.000 0.400 | 90 89.000 11.700 | 135 126.70 89.800 | | 225 130.600 74.900 | 270 152.500 6.100 | 315 128.900 0.800 |
| Maximum Azim Antenna H | Transmitting ER nuth(from true nor eight AAT (mete ng ERP (watts) | th) | 140.820 0 123.200 13.600 | 45 125.000 1.600 | 90 89.000 0.331 | 135 126.70 0.331 | 180 0 144.700 5.900 | 225 130 .600 49.200 | 270 152.500 165.500 | 315 128.900 125.700 |



| Location Latitude | Longit | | (m | ound Eleva eters) | | Structure Hgt (meters) | to Tip | Antenna St Registratio | |
|-------------------------------------------------|---------------|-----------|---------------------|----------------------|------------------|---------------------------|----------------------------|---------------------------|-------------------|
| 24 37-08-2 5.1 1 | | 2-06.1 W | 42 | 7.9 | | 59.4 | | 1279127 | |
| Address: 740 Fire Tow | | | | | | | | | |
| City: Somerset Cour | nty: PULASKI | State: KY | Cons | truction D | eadline | : | | | |
| | | | | | | | | | |
| Antenna: 1 | | iilia | | | | | | | |
| Maximum Transmitting Azimuth(from true | | 47.5 | 15 | 00 | 125 | 100 | 225 | 370 | 215 |
| Antenna Height AAT (n | | | 15 83.000 | 90 | 135 168.70 | 180 0 182.300 | 225 193.800 | 270 178.100 | 315 149,400 |
| Transmitting ERP (watt | | | 59.300 | 156.400 116.300 | 17.200 | | 0.318 | 0.318 | 4.000 |
| Antenna: 2 | | | | 1101500 | 17,1200 | 0.000 | 0.0.0 | 0.510 | |
| Maximum Transmitting Azimuth(from true | | | | 00 | 125 | 100 | 225 | 370 | 215 |
| Antenna Height AAT (n | | 2000 | 15 83.000 | 90 156.400 | 135 168.70 | 180 0 182.300 | 225 193.800 | 270 178,100 | 315 149.400 |
| Transmitting ERP (watt | | | 03.000 | 2.000 | 31.300 | • | 142.000 | 30,400 | 1.500 |
| Antenna: 3 | EDD TIL | | 7. | | | 1.01200 | | | |
| Maximum Transmitting Azimuth(from true | | 140.020 | 15 des | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (n | | | 83.000 | 156.400 | 168.70 | | 193.800 | 178.100 | 149.400 |
| Transmitting ERP (watt | ts) | 100 | 1.8 00 | 0.600 | 0.700 | 1.900 | 34.400 | 225.900 | 292.800 |
| Location Latitude | Longit | ude | Gr | ound Eleva | ation | Structure Hgt | to Tip | Antenna St | ructure |
| | | | (m | eters) | | (meters) | | Registratio | n No. |
| 25 37-01-12.7 N | N 084-34 | -43.7 W | 39 | 3.4 | | 77.7 | | 1234225 | |
| Address: 1025 Hill Ro | ad (39215) | | 76.57 | | | | | | |
| City: Somerset Cour | nty: PULASKI | State: KY | Cons | truction D | eadline | : | | | |
| Antenna: 1 | | | ** | | | | | | |
| Maximum Transmitting | ERP in Watts: | 140.820 | | - XV | 402 | | | | |
| Azimuth(from true | north) | | 15 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (n Transmitting ERP (watt | | _ | 59.800 | 160.600 | 194.40 | | 176.400 | 199.200 | 183.200 |
| Antenna: 2 | .3) | 219.200 | 70.600 | 3.800 | 0.90 0 | 0.438 | 1.300 | 17.700 | 131.500 |
| Maximum Transmitting | | 140.820 | | | | | | | |
| Azimuth(from true Antenna Height AAT (n | | | 15 | 90 | 135 | 180 | 225 | 270 | 315 |
| Transmitting ERP (watt | | | 59.800 | 160.600 | 194.40 | | 176.400 | 199.200 | 183.200 |
| Antenna: 3 | .a <i>j</i> | 0.300 | 1.700 | 14.200 | 43.300 | 50. 200 | 49.700 | 10.000 | 3.300 |
| Maximum Transmitting | | | | | | | | | |
| Azimuth(from true Antenna Height AAT (n | | | 15 | 90 | 135 | 180 | 225 | 270 | 315 |
| Transmitting ERP (watt | , | | 59.800).200 | 160.600 | 194.400 0.400 | 590596.5. | 1 76 .400 56.400 | 199.200 93.500 | 183.200 32.500 |
| | ·-, | 3.200 (| J.200 | 0.200 | 0.400 | 8.6 00 | 30.400 | 93.300 | 32.300 |



Call Sign: KNKN965

File Number:

Print Date:

| Location Latitude | Longitude | | round Elev ieters) | ation | Structure Hg (meters) | gt to Tip | Antenna St Registratio | |
|------------------------------------------------------|------------------------|---------------|-----------------------|-----------------|--------------------------|-----------|---------------------------|--------|
| 26 37-02-2 0.6 N | 084-38-44.1 W | 34 | 1.4 | | 29.3 | | В | |
| Address: 1399 W. HWY 914 (| 110483) | | | | | | | |
| City: Somerset County: PUI | ASKI State: K | Y Con | struction I | Deadlin | e: | | | |
| | | | | | | | | |
| Antenna: 1 | Waster 140 820 | | | | | | | |
| Maximum Transmitting ERP in Azimuth(from true north) | CANTRED PERSONS - WITH | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (meters) | 39.000 | 70.700 | , 0 | | | 103.300 | | 85.600 |
| Transmitting ERP (watts) Antenna: 2 | 193. 600 | 81.300 | 66.600 6.600 | 85.100 0.900 | 0.400 | 0.500 | 12.700 | 97.600 |
| Maximum Transmitting ERP in ' | Watts: 140.820 | | | | | | | |
| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (meters) | 39,0 00 | 70.700 | 66.600 | 85.100 | 87.700 | 103.300 | 69.700 | 85.600 |
| Fransmitting ERP (watts) Antenna: 3 | 2.600 | 27.000 | 144.400 | 181.00 | 00 38.100 | 3.500 | 0.500 | 0.600 |
| Maximum Transmitting ERP in ' | Watts: 140.820 | | | | | | | |
| Azimuth(from true north) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 |
| Antenna Height AAT (meters) | 39.000 | 70.700 | 66.600 | 85.100 | 87.700 | 103.300 | 69.700 | 85.600 |
| Transmitting ERP (watts) | 1.800 | 0 .400 | 0.400 | 6.500 | 53.800 | 181.000 | 137.600 | 14.900 |

Control Points:

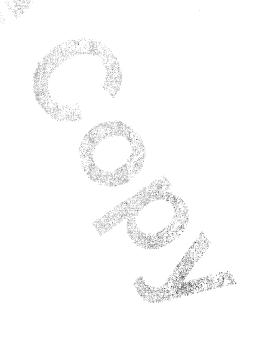
Control Pt. No. 3

Address: 500 W. Dove Rd.

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

Waivers/Conditions:

NONE



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Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J. MATHEW NEW CINGULAR WIRELESS PCS, LLC 208 S AKARD ST., RM 1016 DALLAS, TX 75202

| Call Sign KNLF251 | File Number |
|-----------------------------|-------------|
| Radio | Service |
| CW - PCS | Broadband |

FCC Registration Number (FRN): 0003291192

| Grant Date 06-02-2015 | Effective Date 01-16-2020 | Expiration Date 06-23-2025 | Print Date |
|---------------------------------|----------------------------------|----------------------------|-----------------------------|
| Market Number MTA026 | Channe A | l Block | Sub-Market Designator 15 |
| | Market l Louisville-Lexing | | |
| st Build-out Date 06-23-2000 | 2nd Build-out Date 06-23-2005 | 3rd Build-out Date | 4th Build-out Dat |

Waivers/Conditions:

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

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

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

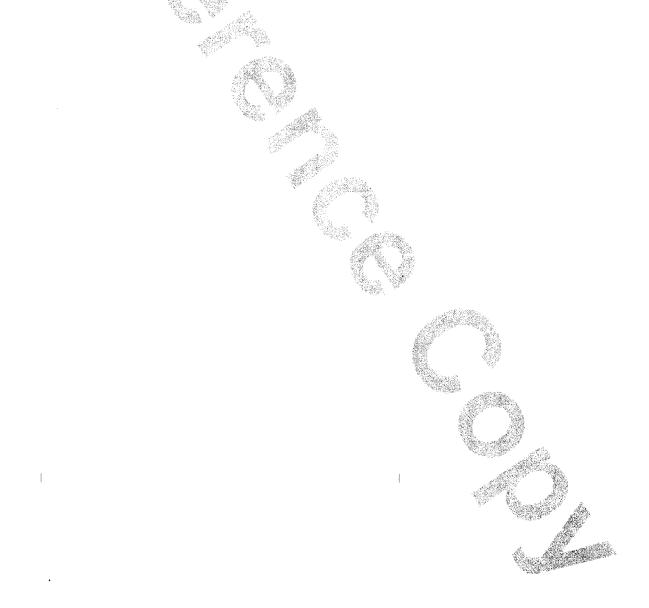
This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in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

Call Sign: KNLF251 File Number: Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918512.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).



Call Sign: KNLF251 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Market Name Buildout Deadline Buildout Notification Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW

NEW CINGULAR WIRELESS PCS, LLC

208 S AKARD ST., RM 1015

DALLAS, TX 75202

| Call Sign KNLH398 | File Number |
|----------------------|-------------|
| Radio | Service |
| CW - PCS | Broadband |

FCC Registration Number (FRN): 0003291192

| Grant Date 04-14-2017 | Effective Date 08-31-2018 | Expiration Date 04-28-2027 | Print Date |
|---------------------------------|------------------------------|-------------------------------|-----------------------|
| Market Number BTA252 | Channe D | l Block | Sub-Market Designator |
| | Market I Lexingto | | |
| st Build-out Date 04-28-2002 | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |

Waivers/Conditions:

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

Conditions:

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

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

Call Sign: KNLH398 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Name Buildout Deadline Buildout Notification Status

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Federal Communications Commission Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW NEW CINGULAR WIRELESS PCS, LLC 208 S AKARD ST., RM 1015 DALLAS, TX 75202

| Call Sign WPOI255 | File Number |
|-----------------------------|-------------|
| Radio | Service |
| CW - PCS | Broadband |

FCC Registration Number (FRN): 0003291192

| Grant Date 05-27-2015 | Effective Date 03-1 2-2020 | Expiration Date 06-23-2025 | Print Date |
|--------------------------------|---------------------------------------------|----------------------------|-----------------------|
| Market Number MTA026 | Channe A | 8 | Sub-Market Designator |
| | Market l Louisville-Lexing | | |
| t Build-out Date 06-23-2000 | 2nd Build-out Date 06-23-2005 | 3rd Build-out Date | 4th Build-out Dat |

Waivers/Conditions:

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

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

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

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

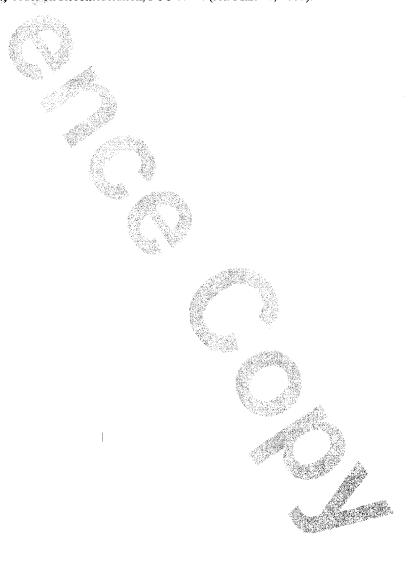
Call Sign: WPOI255 File Number: Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918558.

The Spectrum Leasing Arrangement, which became effective upon approval of application file number 0001918558, was terminated on 04/14/2005. See file number 0002135370.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).



Call Sign: WPOI255 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Name Buildout Deadline Buildout Notification Status

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW NEW CINGULAR WIRELESS PCS, LLC 208 S AKARD ST., RM 1015 DALLAS, TX 75202

| Call Sign WQGD755 | File Number | | | |
|-----------------------------|-------------|--|--|--|
| Radio | Service | | | |
| AW - AWS (1710-1755 MHz and | | | | |
| 2110-215 | 55 MHz) | | | |

FCC Registration Number (FRN): 0003291192

| Grant Date 12-18-2006 | Effective Date 08-31-2018 | Expiration Date 12-18-2021 | Print Date |
|------------------------------|------------------------------|-------------------------------|-----------------------|
| Market Number BEA047 | Channe | el Block | Sub-Market Designator |
| | Market Lexington, KY- | | |
| st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |

Waivers/Conditions:

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

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

Conditions:

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

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

Call Sign: WQGD755 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Name Buildout Deadline Buildout Notification Status

REFERENCE COPY

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



Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW NEW CINGULAR WIRELESS PCS, LLC 208 S AKARD ST. RM 1015 DALLAS, TX 75202

| Call Sign WQUZ670 | File Number | | | |
|-----------------------------|-------------|--|--|--|
| Radio | Service | | | |
| AW - AWS (1710-1755 MHz and | | | | |
| 2110-21 | 55 MHz) | | | |

FCC Registration Number (FRN): 0003291192

| Grant Date 09-26-2014 | Effective Date 02-20-2019 | Expiration Date 11-29-2021 | Print Date |
|------------------------------|------------------------------|-------------------------------|-----------------------|
| Market Number REA004 | Channe D | el Block | Sub-Market Designator |
| | Market Mississipp | | |
| st Build-out Date | 2nd Build-out Date | 3rd Build-out Date | 4th Build-out Date |

Waivers/Conditions:

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

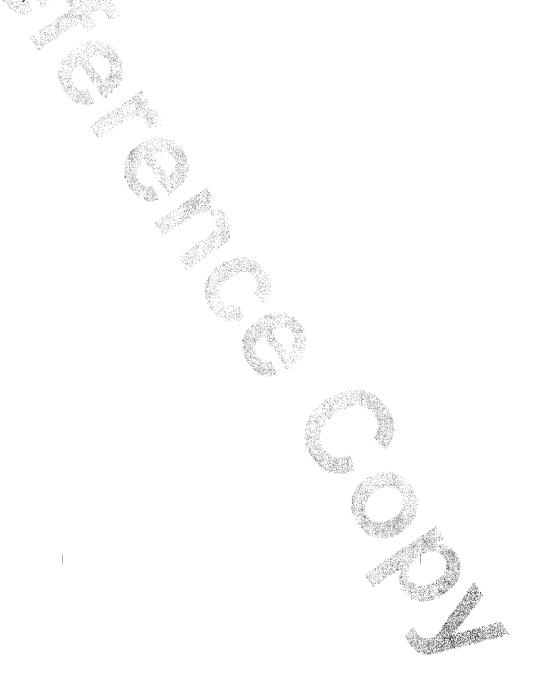
Conditions:

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

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

Call Sign: WQUZ670 File Number: Print Date:

The license is subject to compliance with the provisions of the January 12, 2001 Agreement between Deutsche Telekom AG, VoiceStream Wireless Corporation, VoiceStream Wireless Holding Corporation and the Department of Justice (DOJ) and the Federal Bureau of Investigation (FBI), which addresses national security, law enforcement, and public safety issues of the FBI and the DOJ regarding the authority granted by this license. Nothing in the Agreement is intended to limit any obligation imposed by Federal lawor regulation including, but not limited to, 47 U.S.C. Section 222(a) and (c)(1) and the FCC's implementing regulations. The Agreement is published at VoiceStream-DT Order, IB Docket No. 00-187, FCC 01-142, 16 FCC Rcd 9779, 9853 (2001).



Call Sign: WQUZ670 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Name Buildout Deadline Buildout Notification Status

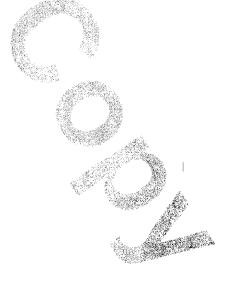


EXHIBIT B

SITE DEVELOPMENT PLAN:

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

PACE #: MRTNK047948

PROJECT TRACKING #: 10110570

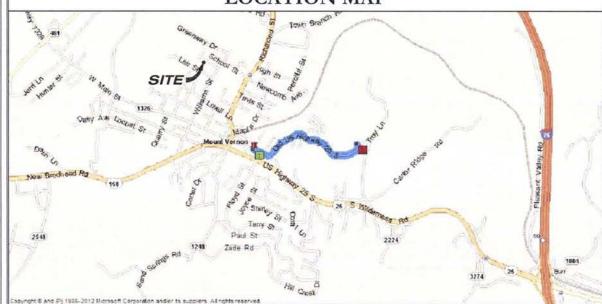
SITE NAME: MT. VERNON

OLD U.S. HWY 25 MT. VERNON, KY 40456 **ROCKCASTLE COUNTY**

PROPOSED 330' SELF-SUPPORT TOWER

ZONING DRAWINGS

LOCATION MAP



NO SCALE

DRIVING DIRECTIONS

DEPART 205 E MAIN ST, MT VERNON, KY 40456 [205 E MAIN ST, MT VERNON, KY 40456] ON KY-1326

TURN LEFT (NORTH-EAST) ONTO OLD US HIGHWAY 25 S [OLD US-25] 0.5 MI ROAD NAME CHANGES TO OLD DIXIE HWY [OLD US HIGHWAY 25 N]

DESIGN INFORMATION

ELECTRIC JACKSON ENERGY COOP PROVIDER: 606-256-8408

B+T GROUP 1717 S. BOULDER, SUITE 300 TULSA, OK 74119 MIKE A. SPEEDIE, PE (918) 587-4630

> 100 GOVERNORS TRACE, STE #103 PROVIDER: XXX-XXX-XXXX
> PEACHTREE CITY, GA 30269 POINT TO POINT

A/E DOCUMENT REVIEW STATUS

ACCEPTED: WITH OR NO COMMENTS, CONSTRUCTION MAY PROCEED

PROJECT SUMMARY

NOT ACCEPTED: RESOLVE COMMENTS AND RESUBMIT THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS

FA 15147586

046-00-001.05

OLD U.S. HWY 25

MT. VERNON, KY 40456

ROCKCASTLE COUNTY

d/b/a AT&T MOBILITY

LOUISVILLE, KY 40202

FOR HUMAN HABITATION

MEIDINGER TOWER

10802 EXECUTIVE CENTER DRIVE LITTLE ROCK, AR 72211

NEW CINGULAR WIRELESS, PCS, LLC, A

DELAWARE LIMITED LIABILITY COMPANY

462 S/ 4th STREET, SUITE 2400

FACILITY IS UNMANNED AND NOT

HARMONI TOWERS

37.353261° N -84.327297° W

UNMANNED

HARMONI TOWERS PROP:

INTERCONNECT:

STATUS CODE:

SITE NAME:

SITE NUMBER:

SITE ADDRESS:

JURISDICTION:

TOWER OWNER:

LATITUDE:

LONGITUDE APPLICANT:

CO-APPLICANT:

OCCUPANCY TYPE:

A.D.A. COMPLIANCE:

TAX MAP PROPERTY ID:

PROPERTY OWNER

HARMONI TOWERS CONST. MGR .:

HARMONI TOWERS SITE DEV. MGR.:

PH. (678) 565-4440

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS 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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

BUILDING/DWELLING STRUCTURAL MECHANICAL

IBC 2015 NEC 2017

PROJECT DESCRIPTION

TURN LEFT (NORTH-WEST) ONTO LOCAL ROAD(S) 32 YDS

THE PROPOSED PROJECT INCLUDES:

[E MAIN ST] (EAST) 174 YDS

ARRIVE 37.35326*N 84.32730*W

- CONSTRUCT (1) NEW 330' SELF-SUPPORT TOWER CONSTRUCT FENCED GRAVEL UTILITY COMPOUND WITH LOCKING ACCESS GATE, 60' x 60' WITHIN 100' x 100'
- INSTALL (1) H-FRAME W/ UTILITY EQUIPMENT. INSTALL NEW POWER & TELCO UTILITY SERVICES.
- CONSTRUCT 12' WIDE GRAVEL ACCESS ROAD

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17.

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.





DRAWING INDEX

SHEET DESCRIPTION

500' RADIUS & ADJOINER'S DRAWING







NIT. VER ROCKCA

PROJECT NO: CHECKED BY MAS

ISSUED FOR: REV DATE DRWN DESCRIPTION A 08/19/20 DLS ZONING DRAWINGS 0 08/31/20 DLS ZONING DRAWINGS 1 10/30/20 DLS ZONING DRAWINGS

> B&T ENGINEERING, INC. F-1403 Expires 12/31/20



IT IS A VIOLATION OF LAW FOR ANY PERSON, THEY ARE ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DO

TITLE SHEET

CALL KENTUCKY ONE CALL (800) 752-6007 CALL 3 WORKING DAYS BEFORE YOU DIG!



SHEET

T-1

C-2

C-3

C-4

TITLE SHEET

OVERALL SITE LAYOUT

TOWER ELEVATION

ENLARGED COMPOUND LAYOUT

SURVEY



POB POINT OF BEGINNING
POC POINT OF COMMENCEMENT
PS IRON PIN SET
IFF IRON PIN FOUND
UP UTILITY POLE
LP LIGHT POLE
FF FLAG POLE

TRANSFORMER JUNCTION BOX

JUNCTION BOX

SINGLE WING CATCH BASIN

DOUBLE WING CATCH BASIN

CHAN LINK FENCE

WATER VALVE

WATER METER

SEWER CLEAN-OUT

GAS VALVE

NOW OR FORMERLY

ICE BRIDGE

IRON PIN SE!
IRON PIN FOUND
CONCRETE MONUMENT FOUND
UTILITY POLE
LIGHT POLE
I.SANTARY SEWER MANHOLE
I SANTARY SEWER MANHOLE
I SANTARY SEWER MANHOLE
INVERT
FRE HYDRANT
FRE HYDRANT
FOR OF PAVEMENT
TOP OF CURB
BACK OF CURB
TOP OF WALL
OVERHEAD UTILITY
CORRUGATED METAL PIPE
FOL WINNE ARROUND UTILITY
CORRUGATED METAL PIPE
FOL WINNEL CHLORDE PIPE
GUY WINTEL ANCHOR
TRANSFORMER

PARENT PARCEL

OWNER: VADD CO.

SITE ADDRESS: OLD U.S. HIGHWAY 25, MT. VERNON, KY 40456

PARCEL ID: 046-00-001.05

AREA: 1.5 ACRES (PER TAX ASSESSOR)

ZONED: NO ZONING

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS

RAE L. COX, TRUSTEE

PARCEL ID: 046-00-001

DB 230 PG 681

C/L 30' INGRESS-EGRESS & UTILITY EASEMENT

(SEE SHEET 2 FOR DETAIL)

UP

REFERENCE: BOOK 187 PAGE 303

GPS NOTES

THE FOLLOWING GPS STATISTICS UPON WHICH THIS CONFIDENCE LEVEL:

N/F MALCOLM SHEPHERD

PARCEL ID: 046-00-002 DB 194 PG 32

POSITIONAL ACCURACY: 0.09 FEET (HORZ) 0.28 FEET (VERT) TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE DATES OF SURVEY: 01/28/20 & 02/03/2020 DATUM / EPOCH: NAD_83(2011)(EPOCH:2010.0000) PUBLISHED / FIXED CONTROL USE: N/A GEOID MODEL: 18
COMBINED GRID FACTORISI: 0.99988868 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON. SITE

VICINITY MAP

NOT TO SCALE

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF UNITI TOWERS, LLC AND EXCLUSIVELY FOR THE TRANSFERRAL OF THE PROPOSED LEASED PREMISES AND THE RIGHTS OF EASEMENT SHOWN HEREON AND SHALL NOT BE USED AS AN EXHIBIT OR EVIDENCE IN THE FEE SIMPLE TRANSFERRAL OF THE PARENT PARCEL NOR ANY PORTION OR PORTIONS THEREOF, BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM TAX MAPS AND DEED DESCRIPTIONS ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITH 35. [DATE OF LAST FIELD VISIT: 02/03/2020]

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± .5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH (NAD 83)

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X. COMMUNITY PANEL NO.: 21203C0200C DATED: 08/03/2009

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA. EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

STATE of KENTUCKY G. DARRELL TAYLOR 4179 LICENSED PROFESSIONAL LAND SURVEYOR DATE REVISION 2/26/20 ADDED TITLE - JSD

4497 POIN

100 Governors Trace, Ste. 103 Peachtree City, GA 30269 (p) 678.565.4440 (f) 678.565.44 (w) pointtopointsurvey.com AND

SPECIFIC PURPOSE SURVEY PREPARED FOR



MT. VERNON SITE NO. KYLEX2044

ROCKCASTLE COUNTY, KENTUCKY

DRAWN BY: JSD

CHECKED BY: JKL APPROVED: D. MILLER

DATE: FEBRUARY 6, 2020

Call before you dig. P2P JOB #: 200099KY

Know what's below.

SURVEYOR'S CERTIFICATE

G DARRELL TAYLOR, PLS 4179

GRAPHIC SCALE IN FEET SCALE: 1" = 100"

UP W/

PARENT PARCEL VADD CO. PARCEL ID: 046-00-001.05

DB 187 PG 303

LEASE AREA

(SEE SHEET 2 FOR DETAIL)

I, G. DARRELL TAYLOR, A KENTUCKY PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18:150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

02/26/2020

SURVEY NOT VALID WITHOUT SHEET 2 OF 2

POR

LEASE

LINE TABLE

N00°00'00"E

N90°00'00'E

S00°00'00"W

N90°00'00'W

BEARING

LINE

11

L2

L3

L4

DISTANCE

100.00

100.00

100.00

100.00

C/L 30' INGRESS-EGRESS

UP W/

& UTILITY EASEMENT (RIGHTS TO BE ACQUIRED)

LEASE AREA

TOP

SLOPE

N=3655309.8072 E=5334722.1521

GPS

BASE

TBM:

1311.1

138.

SLOPE

UP W/

TR

SITE INFORMATION

LEASE AREA = 10,000 SOUARE FEET (0.2296 ACRES)

LATITUDE = 37°21'11.74' (NAD 83) (37.353261°) LONGITUDE = -84°19'38.27" (NAD 83) (-84.327297°) AT CENTER LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 1305.8' A.M.S.L.

30' INGRESS-EGRESS & UTILITY EASEMENT

BEGINNING AT A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N: 3655172,8593 E: 5334701,6398 AND FROM WHENCE A 1/2-INCH OPEN TOP PIPE FOUND ON THE SOUTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25 BEARS. SOUTH 30°34'56" EAST, 123.31 FEET; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, NORTH 08°31'07" EAST, 138.48 FEET TO THE ENDING AT A POINT ON THE LEASE AREA, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD 83,

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE,

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN ROCKCASTLE COUNTY, KENTUCKY, AND BEING A PART OF

TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N: 3655172.8593 E: 5334701.6398 AND FROM WHENCE A 1/2-INCH OPEN TOP PIPE FOUND ON THE SOUTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25 BEARS, SOUTH 30°34'56" EAST, 123.31 FEET; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, NORTH 08°31'07" EAST, 138.48 FEET TO A POINT ON THE LEASE AREA, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N: 3655309.8072 E: 5334722,1521: THENCE RUNNING ALONG SAID LEASE AREA LINE, NORTH 90°00'00" WEST, 15.17 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, NORTH 00°00'00" EAST, 100.00 FEET TO A POINT; THENCE, NORTH 90°00'00" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 00°00'00" WEST, 100.00 FEET TO A POINT: THENCE, NORTH 90°00'00" WEST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2296 ACRES (10,000 SQUARE FEET), MORE OR LESS

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ISSUE DATE OF FEBRUARY 18, 2020, SCOPE OF SEARCH BEGINNING APRIL 13, 1978 AND EXTENDING THROUGH FEBRUARY 11, 2020, BEING ORDER NO. 30902325, FOR THE PARENT PARCEL. TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS

2. DEED OF EASEMENT IN FAVOR OF THE CITY OF MT. VERNON SET FORTH IN INSTRUMENT RECORDED ON FEBRUARY 4, 2002 IN DEED BOOK 188, PAGE 131.

[THIS ITEM CANNOT BE DETERMINED IF IT IS APPLICABLE TO THE PARENT PARCEL BECAUSE THE DESCRIPTION OF THIS EASEMENT IS VAGUE AND THEREFORE WE ARE NOT ABLE TO ASCERTAIN

PARENT PARCEL

THE FOLLOWING DESCRIBED REAL PROPERTY LOCATED IN ROCKCASTLE COUNTY, KENTUCKY, TO WIT:

BEGINNING ON AN IRON PIN IN THE NORTH RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25, CORNER TO SHEPHARD; THENCE WITH SHEPHARD N 07 DEGREES 00' 00' W 156 FEET TO A POINT, CORNER TO SHEPHARD AND COX; THENCE WITH COX S 83 DEGREES 04' 24' W, 229.88 FEET TO A POINT CORNER TO COX; THENCE WITH COX THE FOLLOWING CALL'S ALONG AN EXISTING ROADWAY; S
02 DEGREES 00' 00" W, 266.00 FEET AND S 08 DEGREES 30' 00" W, 140.00 FEET TO A POINT IN THE RIGHT-OF-WAY OF OLD U.S. HIGHWAY 25; THENCE WITH SAID HIGHWAY N 45 DEGREES 00' 00' E, 392 FEET TO THE POINT OF BEGINNING AND

AND BEING THE SAME PROPERTY CONVEYED TO VADD CO. FROM ASHLAND LODGE 640 F&AM BY DEED OF CONVEYANCE DATED NOVEMBER 27, 2001 AND RECORDED NOVEMBER 27, 2001 IN DEED BOOK 187, PAGE 303

TAX PARCEL NO. 046-00-001.05

TOGETHER WITH A 30-FOOT WIDE (15 FEET EACH SIDE OF CENTERLINE) INGRESS-EGRESS & UTILITY EASEMENT LYING AND BEING IN ROCKCASTLE COUNTY, KENTUCKY, AND BEING A PART OF THE LANDS OF VADD CO. AS RECORDED IN DEED BOOK 187, PAGE 303, ROCKCASTLE COUNTY RECORDS, AND BEING DESCRIBED BY THE FOLLOWING

SINGLE ZONE VALUE OF N: 3655309.8072 E: 5334722.1521.

THE LANDS OF VADD CO. AS RECORDED IN DEED BOOK 187, PAGE 303, ROCKCASTLE COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

PER ORDER NO: 30902325

PROPERTY LOCATED IN ROCKCASTLE COUNTY, KENTUCKY

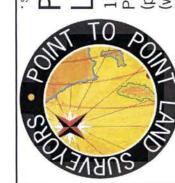
STATE of KENTUCKY G. DARRELL TAYLOR 4179 LICENSED PROFESSIONAL LAND SURVEYOR

DATE REVISION 2/26/20 ADDED TITLE - JSD

> 4497 103 565. OR POIN

100 Governors Trace, Ste. 1 Peachtree City, GA 30269 (p) 678.565.4440 (f) 678.56 (w) pointtopointsurvey.com SURVE AND

0



SPECIFIC PURPOSE SURVEY PREPARED FOR



MT. VERNON SITE NO. KYLEX2044

ROCKCASTLE COUNTY, KENTUCKY

DRAWN BY: JSD

CHECKED BY: JKL

APPROVED: D. MILLER DATE: FEBRUARY 6, 2020 OF 2

SURVEY NOT VALID WITHOUT SHEET 1 OF 2 P2P JOB #: 200099KY

SIMH SANUTART SETTER PROVIDED SIME SANUTART SETTER PROVIDED STATE STATE SANUTART SETTER PROVIDED STATE SANUTART SETTER SANUTART S ICE BRIDGE ICE BRIDGE POLE

LEGEND

LECELNU

POB POINT OF BEGINNING

POC POINT OF COMMENCEMENT

IPS IRON PIN SET

IPF IRON PIN FOUND

CMF CONCRETE MONUMENT FOUND

UP UTLITY POLE

LIGHT POLE

F FLAG POLE

SSMM+ SANTARY SEWER MANHOLE

SSMM+ SANTARY SEMER MANHOLE

SMM+ SANTARY SEMER MANHOLE

SMH SANTARY SEWER MANHO SDMH STORM DRAIN MANHOLE INV INVERT FH FIRE HYDRANT EP EDGE OF PAVEMENT TC TOP OF CURB

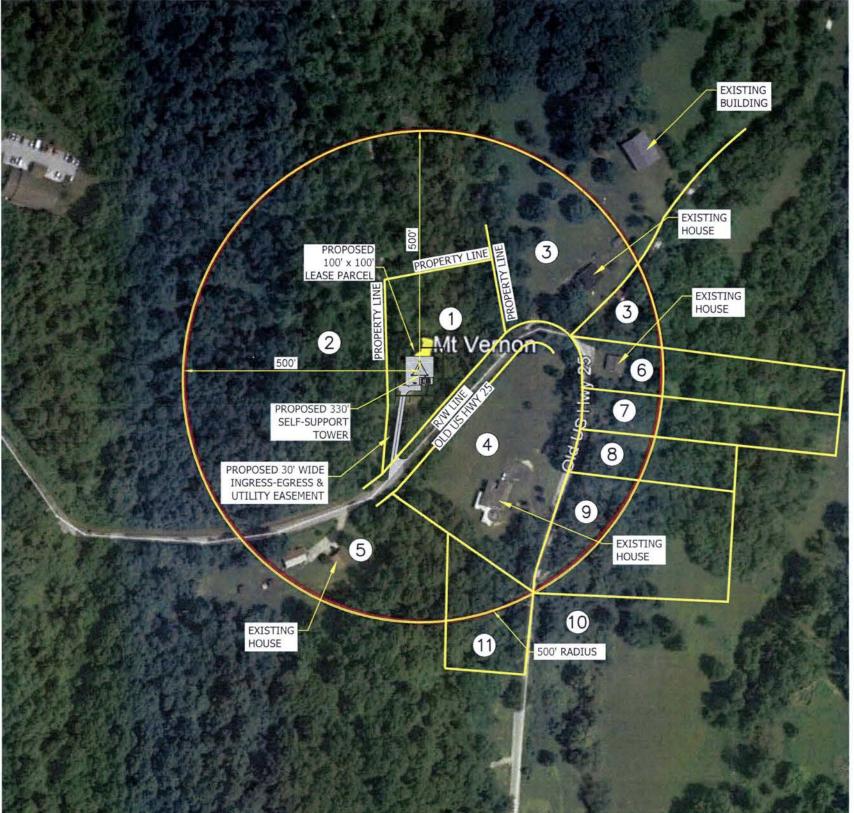
GRAPHIC SCALE IN FEET SCALE: 1' = 50'

POB: ING-EGR & LITIL

POC: LEASE AREA

N=3655172.8593

E=5334701.6398



| # | OWNER | ADDRESS | PID | REF |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| 1 | VADD COMPANY | P.O. BOX 1350 MT. VERNON, KY 40456 | 046-00-001.05 | DB 187 PG 303 |
| 2 | RAE L. COX, TRUST c/o JERRY COX | P.O. BOX 1350 MT VERNON, KY 40456 | 046-00-001 | DB 230 PG 68: |
| 3 | MALCOLM SHEPHERD | 187 OLD DIXIE HWY MT VERNON, KY 40456 | 046-00-002 | DB 194 PG 32 |
| 4 | WALTER M. & VANESSA HOWARD | 262 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-009 | DB 270 PG 62 |
| 5 | MALCOLM J. SHEPHERD | 187 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-008 | DB 199 PG 66 |
| 6 | DALLAS GRAVES | 220 OLD DIXIE HWY MT VERNON, KY 40456 | 046-00-005 | DB 182 PG 20 |
| 7 | MATTHEW & BEULAH SHEPHERD | 528 GENERAL CRUFT RD MT VERNON, KY 40456 | 046-00-006 | DB 225 PG 27 |
| 8 | STOKES JJ -HEIRS- c/o EDITH STOKES | 509 DRYFORK ROAD ORLANDO, KY 40460 | 046-00-008 | (2) |
| 9 | PERRY T & AMY MINK | 665 CARTER RIDGE RD MT VERNON, KY 40456 | 046-00-007 | DB 261 PG 18 |
| 10 | PERRY T & AMY MINK | 665 CARTER RIDGE RD MT VERNON, KY 40456 | 046-00-009 | DB 261 PG 18 |
| 11 | NEWTON RAYMOND MRS. c/o MARGARET SMITH | 362 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-010 | |
| | The second secon | 4 - Charles and Ch | | |

NOTE:

- PVA INFORMATION WAS OBTAINED ON 10/28/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 3. NOT FOR RECORDING OR PROPERTY TRANSFER.

BAT NOTE:

MUST DO TREE CLEARING BETWEEN OCTOBER 15th AND MARCH 31st, DUE TO BAT TREES ON PROPERTY

C

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!









MT. VERNON
FA# 15147586
PACE# NRTNK047948
PT# 10110570
OLD U.S. HWY 25
MT. VERNON, KY 40456

PROJECT NO: G0137346.00 CHECKED BY: MAS

> B&T ENGINEERING, INC. E-1403 Expires 12/31/20

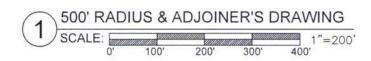


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSI PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

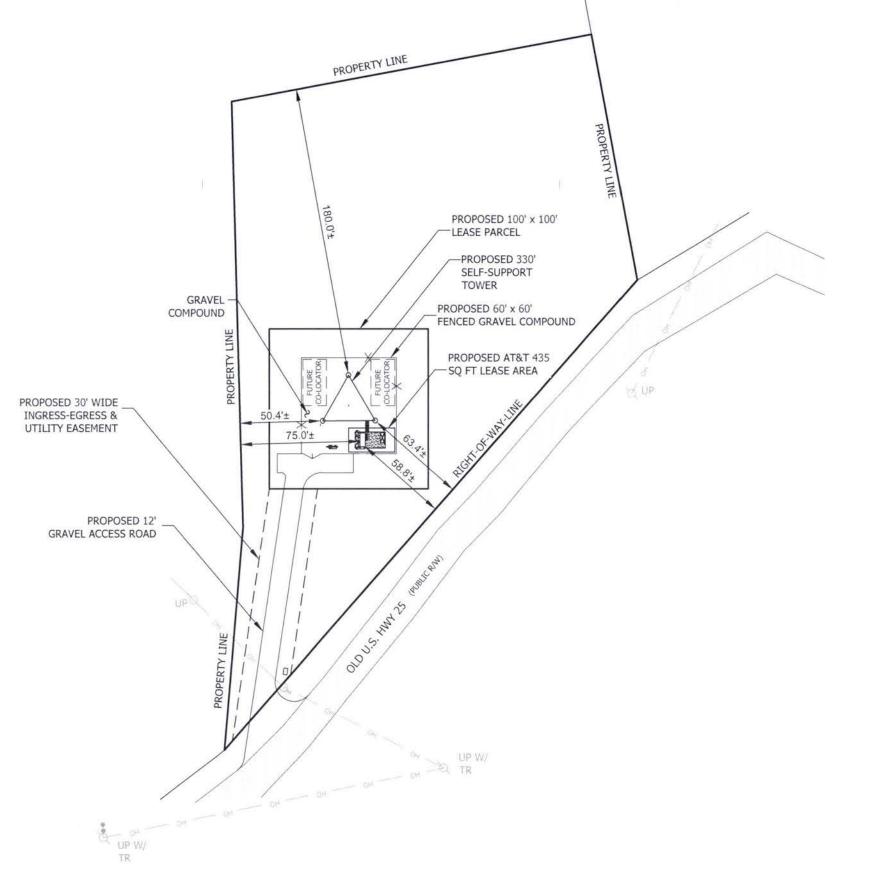
> 500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:

C-1







NOTES:

- 1. TOWER LATITUDE, LONGITUDE & ELEVATION MEET FAA"1-A" ACCURACY REQUIREMENTS.
- 2. CENTER OF TOWER:

LATITUDE: NORTH 37°21'11.74" (37.353261) NAD 83 LONGITUDE: WEST -84°19'38.27" (-84.327297) NAD 83 GROUND ELEVATION @ 1305.8' A.M.S.L. NAVD 88

3. THE APPROXIMATE PERPENDICULAR DISTANCES FROM THE OUTER EDGE OF THE PROPOSED TOWER TO PARENT TRACT NEAREST PROPERTY LINE ARE AS FOLLOWS:

NORTHWEST: $180.0^{\circ}\pm$ WEST: $50.4^{\circ}\pm$ SOUTHEAST: $63.4^{\circ}\pm$

BAT NOTE:

MUST DO TREE CLEARING BETWEEN OCTOBER 15th AND MARCH 31st, DUE TO BAT TREES ON PROPERTY



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!







MT. VERNON

EA# 15147586

PACE# MRTNK047948

PT# 10110570

OLD U.S. HWY 25

MT. VERNON, KY 40450

PROJECT NO: G0137346.00
CHECKED BY: MAS

> B&T ENGINEERING, INC. E-1403 Expires 12/31/20

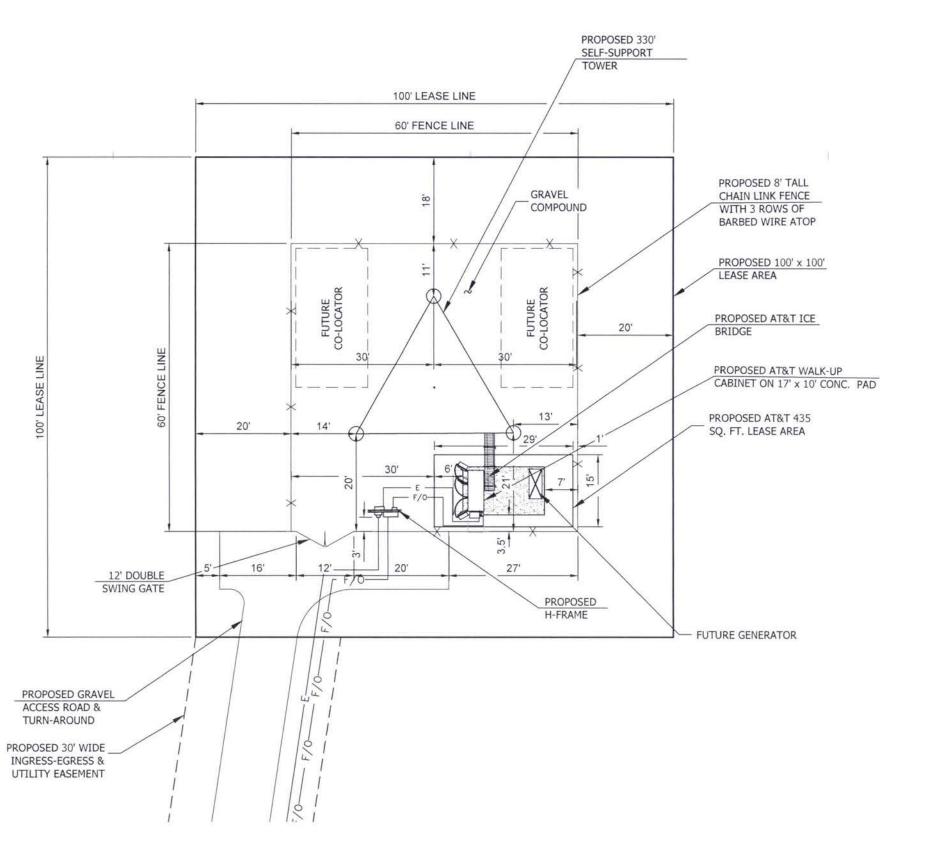


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OVERALL SITE LAYOUT

SHEET NUMBER:











MT. VERNON
FA# 15147586
PACE# NRTINK047948
PT# 10110570
OLD U.S. HWY 25
AIT. VERNON, KY 40456
ROCKCASTLE COUNTY

| PRO | DJECT NO |): | G0137346,00 |
|-----|----------|------|-----------------|
| CHI | ECKED BY | č; | MAS |
| | ISS | SUED | FOR: |
| REV | DATE | DRWN | DESCRIPTION |
| A | 08/19/20 | DLS | ZONING DRAWINGS |
| 0 | 08/31/20 | DLS | ZONING DRAWINGS |

B&T ENGINEERING, INC. E-1403 Expires 12/31/20

1 10/30/20 DLS ZONING DRAWINGS



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> ENLARGED COMPOUND LAYOUT

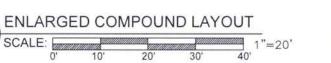
SHEET NUMBER:

BAT NOTE:

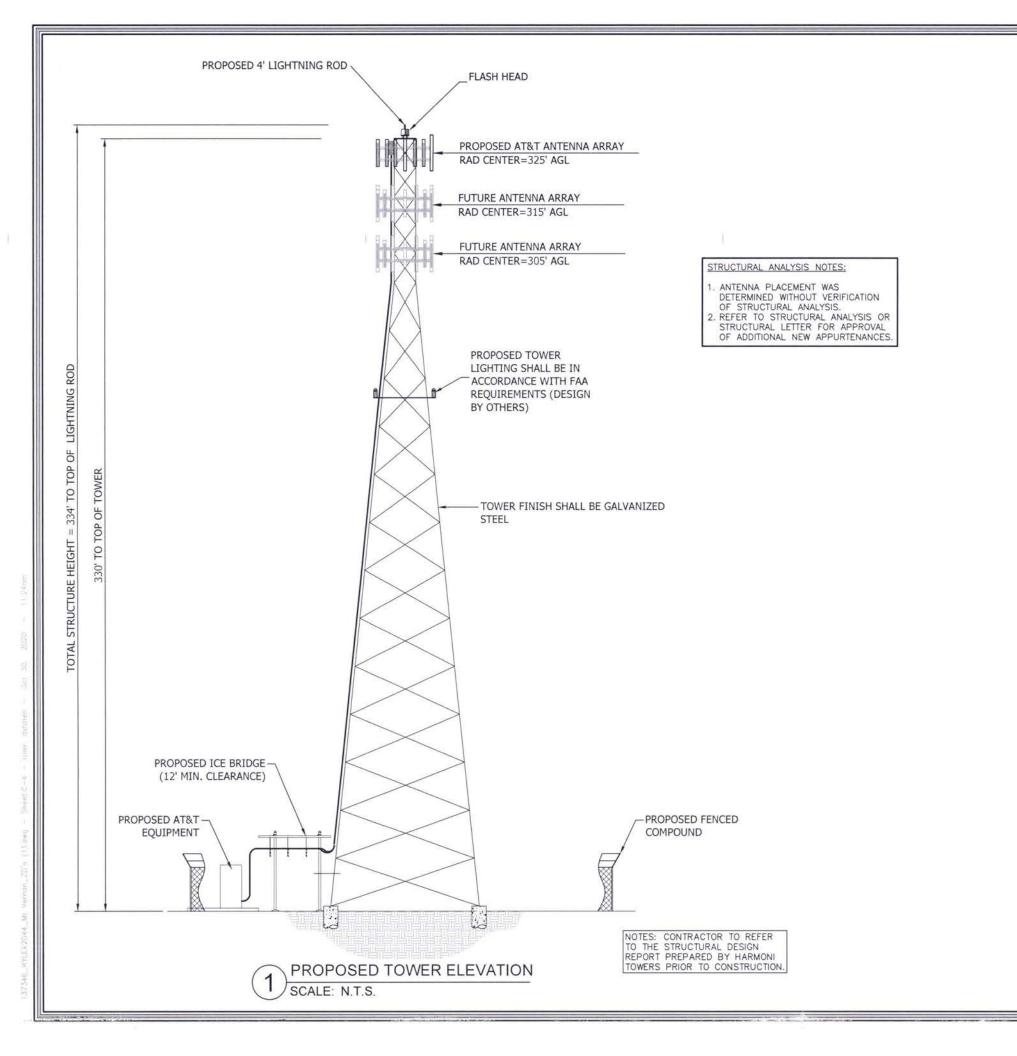
MUST DO TREE CLEARING BETWEEN OCTOBER 15th AND MARCH 31st, DUE TO BAT TREES ON PROPERTY



CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!











HARMONI

HARMONI TOWERS
MT. VERNON
FA# 15147586

PROJECT NO: G0137346.00

CHECKED BY: MAS

| REV | DATE | DRWN | DESCRIPTION |
|-----|----------|------|-----------------|
| A | 08/19/20 | DLS | ZONING DRAWINGS |
| 0 | 08/31/20 | DLS | ZONING DRAWINGS |
| 1 | 10/30/20 | DLS | ZONING DRAWINGS |

B&T ENGINEERING, INC. E-1403 Expires 12/31/20



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSET PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

> TOWER ELEVATION

SHEET NUMBER

C-4

EXHIBIT C TOWER AND FOUNDATION DESIGN





July 16,2020

Kentucky Public Service Commission 211 Sower Blvd. P.O. Box 615 Frankfort, KY 40602-0615

RE: Site Name – McGuire Relo Proposed Cell Tower 37.3532610 North Latitude, 84.3272970 West Longitude

Dear Commissioners:

The Construction Manager for the proposed new communications facility will be Jeremy Culpepper. His contact information is (985) 707-6175 or Jeremy. Culpepper@uniti.com.

Jeremy has been in the industry completing civil construction and constructing towers since 1998. He has worked at Uniti Towers LLC since 2018 completing project and construction management on new site build projects.

Thank you,

Jeremy Culpepper Digitally signed by Jeremy Culpepper Date: 2020.07.16 09:32:42 -05'00'

Jeremy Culpeper Construction Manager – Tennessee/Kentucky Market Uniti Towers LLC (985) 707-6175

| SR 4 3/4 SR 4 1/4 SR 4 1/4 SR 4 1/4 SR 4 1/4 SR 3 4 SR 3 3/4 SR 3 1/2 SR 3 1/4 SR 3 1/2 | Section | 717 | T16 | 212 | T14 | | 713 | T12 | 244 | T10 | 2 | E. | 17 | 10 | 75 | 7 | | + | p |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|---------|-----------|----------------|----------|----------|---------------|-----------|----------|----------|-----------|----------|----------|-------------|-----------|----------|------------------|-----------------------|
| 2133331/4338 | Legs | SR 5 | SS | 3 4 3/4 | v) | SR 4 1/2 | | SR 4 | 1/4 | SR 4 | Ö | R 3 3/4 | SR 3 1/2 | SR 3 1/4 | SR 3 | (i) | SR 2 3/4 | R 2 3/4 SR 2 1/2 | |
| 2133331/44308 | Leg Grade | | | | | | | | | | A529-50 | | | | | | | | |
| A26M-50 NA. NA. L134x134x316x316 L134x134x316x316 NA. L134x134x316x316 NA. NA. NA. NA. NA. NA. NA. NA | Diagonals | 2L3x3x1/4x3/l | 90 | 2L3x2 | 3x3/16x3/8 | | 0000 | 2L2 1/2x2 1/5 | x3/16x3/8 | L3x3x1/4 | | L3x3x3/16 | | L2 1/2x | c2 1/2x3/16 | L2x2x3/16 | 9 | | 716 L1 3/4x1 3/4x3/16 |
| AAA | Diagonal Grade | | | | | | | | | | A36M-50 | | | | | | | | |
| 27. 127. 127. 127. 127. 127. 127. 127. 1 | Top Girts | | | | | | | | | | N.A. | | | | | | | | |
| 200.0 ft | Horizontals | ш | | 2L2 1/2x5 | 2 1/2x3/16x3/8 | | | Ω | O | | | | | N.A. | SV. | | | | |
| 260.0 ft 260.0 ft 240.0 ft 220.0 ft 220.0 ft 260.0 ft 260 | nner Bracing | | | | L1 3/4×1 3/4× | 3/16 | | | | | | | | NA | | | | | |
| 260.0 ft 240.0 ft 220.0 ft 200.0 ft 200 | ace Width (ft) 28. | | | | | 2.5 | 21 | 19.5 | | | | | | | .5 | on. | 1 | 7.5 | 7.5 6 4.5 |
| 260.0 ft 240.0 ft 220.0 ft 200.0 ft 200 | Panels @ (ft) | | | | | | | | | 64 | 1 @ 4.75 | | | | | | | | |
| 240.0 ft 220.0 ft 200.0 ft 180.0 ft 140.0 ft 140.0 ft 40.0 ft 40.0 ft | | | 72 | 7.0 | 6.5 | 4 | 3 | 63 | 8.0 | 4.7 | 2.7 | 3.6 | 32 | 2.6 | n | 4.1 | | * | 1.4 |
| | | 0.0 ft | 20.0 ft | 40.0 ft | 60.0 ft | 80.0 ft | 100.0 ft | 120.01 | | 140.0 ft | 160.0 ft | 180.0 ft | 200.0 ft | 220.0 ft | 240.0 ft | 260.0 ft | | 280.0 ft | 300.0 ft 280.0 ft |

DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|---------------------------------------------------|-----------|------------------------------------------------|-----------|
| Lightning Rod 1"x10" | 330 | Sector1(CaAa=10000 Sq.in)No Ice | 301 |
| Top Beacon | 330 | (Carrier 3) | |
| Sector1(CaAa=13333.33 Sq.in)No Ice (Carrier 1) | 325 | Sector2(CaAa=10000 Sq.in)No Ice (Carrier 3) | 301 |
| Sector2(CaAa=13333.33 Sq.in)No Ice (Carrier 1) | 325 | Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3) | 301 |
| Sector3(CaAa=13333.33 Sq.in)No Ice | 325 | 4 1/2" OD Dish Mount (Carrier 4) | 289 |
| (Carrier 1) | 1777 | 4 1/2" OD Dish Mount (Carrier 4) | 289 |
| Sector1(CaAa=10000 Sq.in)No Ice | 313 | 6' MW Dish (Carrier 4) | 289 |
| (Carrier 2) | | 6' MW Dish (Carrier 4) | 289 |
| Sector2(CaAa=10000 Sq.in)No Ice | 313 | 4 1/2" OD Dish Mount (Carrier 5) | 277 |
| (Carrier 2) | | 4 1/2" OD Dish Mount (Carrier 5) | 277 |
| Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2) | 313 | 6' MW Dish (Carrier 5) | 277 |
| (Carrier 2) | | 6' MW Dish (Carrier 5) | 277 |

SYMBOL LIST

| MARK | SIZE | MARK | SIZE | |
|------|------------------------|------|----------------|--|
| A | SR 1 3/4 | D | 2L2x2x3/16x3/8 | |
| В | L1 3/4x1 3/4x3/16 | E | 2L3x3x3/16x3/8 | |
| C | 2L1 3/4x1 3/4x3/16x3/8 | | 1 | |

MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---------|--------|--------|---------|--------|--------|
| A529-50 | 50 ksi | 65 ksi | A36M-50 | 50 ksi | 65 ksi |

TOWER DESIGN NOTES

- Tower is located in Rockcastle County, Kentucky.

 Tower designed for Exposure C to the TIA-222-H Standard.
- Tower designed for a 105 mph basic wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 30 mph basic wind with 1.50 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 0.000 ft
- Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity.

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 708 K SHEAR: 52 K

UPLIFT: -604 K SHEAR: 46 K

> AXIAL 305 K

SHEAR MOMENT 12 K 2514 kip-ft

TORQUE 8 kip-ft 30 mph WIND - 1.500 in ICE

AXIAL 117 K SHEAR MOMENT

16526 kip-ft

TORQUE 53 kip-ft REACTIONS - 105 mph WIND

86 K







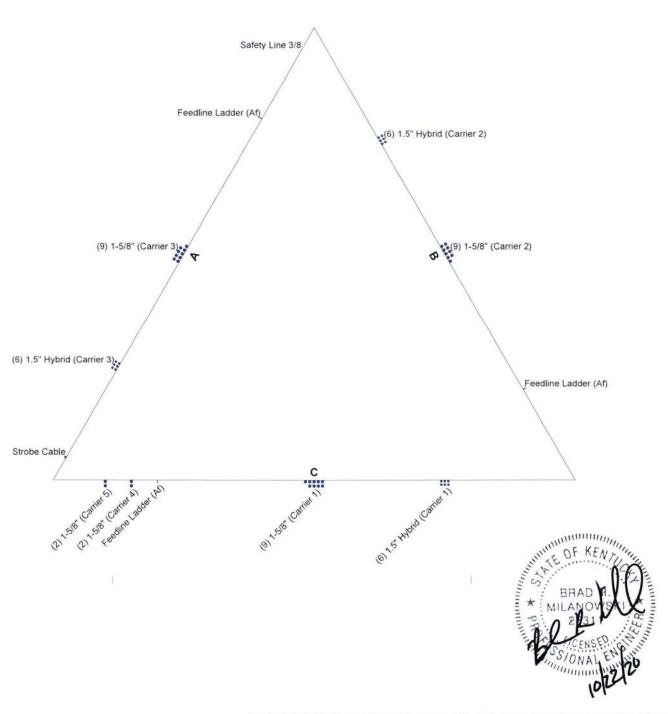
B+T Group 1717 S. Boulder Ave, Ste 300 Tulsa, OK 74119

Phone: (918) 587-4630 FAX: (918) 295-0265

ATS #8657 - Mt Vernon (Site# KYLEX2044) oject 330' SST/ 37.353261, -84.327297

Client: Harmoni (UNITI) Towers Drawn by: JLandon App'd.

Date: 10/22/20 Scale: NTS Code: TIA-222-H Dwg No. E-1





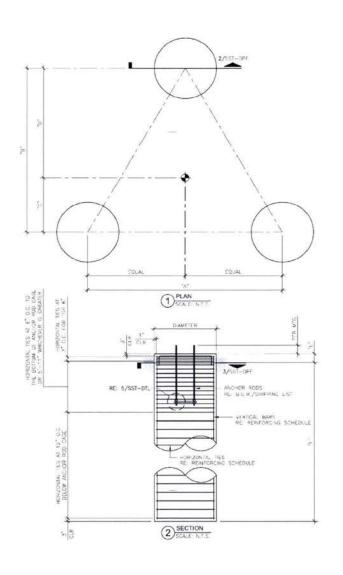


B+T Group 1717 S. Boulder Ave, Ste 300 Tulsa, OK 74119

Phone: (918) 587-4630 FAX: (918) 295-0265

| b: | ATS | #8657 | - Mt | Vernon | (Site# | KYLEX2044 |) |
|----|-----|-------|------|--------|--------|-----------|---|
| | | | | | | | |

Date: 10/22/20 Scale: NTS Dwg No. E-7



REINFORCEMENT STEEL SHALL CONFIRM TO THE REQUIREMENT OF ASTM 4-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3"

THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.

GEOTECHNICAL PROPERTIES BY DELTA OAKS GROUP

PROJECT NUMBER: GEOZO/7031-08
GEOZO/7031-08
GEOZO/7031-08
DATE: SEPTEMBER 79: 2020
THIS FOUNDATION HAS BEEN DESIGNED, IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION.
REFERENCED ABOVE, IF ANY THINNS DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRICE TO CONSTRUCTION.

REFERENCED ABOVE, IF ANY HING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
TOTAL CONCRETE VOILUME FOR ALL (3) PIERS IN OUBIC YARDS, 64.4
ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI 47.28 DAYS.
CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14
ALL CONCRETE TISTING SHALL BE IN ACCORDANCE WITH ACI 318-14 A MINIMUM OF (3) EXIZE OR (3) A"XB" CONCRETE CYLINDERS PER INDIVIDUAL
FOUNDATION AND A MINIMUM OF (6) E"X12" OR (6) 4"XB" CYLINDERS PER BATCH REQUIRED.
SUMP TEST SHALL BE MAD ON ACCORDANCE WITH ASTIM CASS THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (11") UNLESS ADMIXTURES
ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTIM CASS STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER

PLASTICIZER USE, DO NOT USE CHLORIDE CONTAINING ADMIXTURES, AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTMICZED BACKRILL MATERIAL SHALL BE CONFACTED TO A CHINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOLL SHALL BE INSTALLED IN 6° TO 8° UFFS AND COMPACTED THOROUGHLY TO A CHINICAL PROPRIETE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.

10 VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

STIPULATION FOR REUSE:

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

| DIMENSIONING | SCHEDULE |
|-------------------|-------------|
| А | 28" 6" |
| 8 | 14' 8-3/16" |
| 0 | 8' 2-3/4" |
| D | 16 5-7/16 |
| ŧ | 0.5 |
| - 1 | 50, 0, |
| MIN. OVERLAP, "G" | 2'3" |

| REINFORCING SCHEDULE | SIZE | TOTAL QTY |
|----------------------|------|-----------|
| VERTICAL BARS | #8 | 78 |
| HORIZONTAL TIES | #4 | 84 |
| LI-BAR HORIZONTAL | #4 | 12 |

| BASE REACTIONS: (FAC | TORED | OADS) |
|----------------------|--------|--------|
| GLOBAL REAC | TIONS | |
| MOMENT | 16526 | KIP-FT |
| AXIAL | 117 | K(P\$ |
| SHEAR | 86 | KIPS . |
| REACTIONS P | ER LEG | |
| COMPRESSION AXIAL | 708 | KIPS. |
| COMPRESSION SHEAR | 52 | KJPS |
| LIPLIFT AXIAL | 604 | KIPS |
| LIPLIET SHEAR | 46 | KIPS. |





TELECOM STRUCTURES

4020 TULL AVE. MUSKOGEE, OK 74403

| | F1M1 F | DESCRIPTION |
|---|----------|-------------------------|
| 0 | 10/22/20 | ISSUED FOR CONSTRUCTION |



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PROJECT INFORMATION

PROJECT NO: 145800.001.01 SITE NAME: MT. VERNON SITE NO: 8657 CLIENT NAME ARCOSA TELECOM STRUCTURES

DRAWN BY: IL CHECKED BY

SHEET TITLE

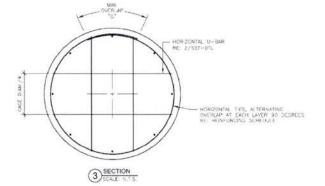
DRILLED PIER FOUNDATION

SHEET NUMBER:

SST-DPF

REVISION

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| Δ 1 | 39.60 |
|------------------|-------------|
| 8 | 5'6" |
| C | 28' 6" |
| D. | 7 4-15/16" |
| | 24' 8-3/16" |
| F | 4' 1-3/8" |
| T. S | 0.6, |
| E . | 6'0" |
| - 4 | 5,34 |
| MIN. OVERLAP "M" | 2'3" |
| | |

| REINFORCING SCH | EDULE | SIZE | TOTAL QT |
|-----------------|--------------|------|----------|
| VERTICAL BARS W | TH 90" BEND | #8 | 54 |
| HOF | RZONTAL TIES | #.4 | 42 |
| HORIZONTAL U-BA | R (PEDESTAL) | #4 | 12 |
| TOP HORI | ZONTAL BARS | #8 | 82 |
| BOTTOM HORE | ZONTAL BARS | #8 | 82 |
| 71 | CORNER BARS | #.4 | 8 |
| VERTICAL | U-BARS (PAD) | #.4 | 82 |

| BASE REACTIONS: (FAC | TOREDL | DADS |
|----------------------|--------|------|
| GLOBAL REAC | TIONS | |
| MOMENT | 16526 | KIP- |
| AXIAL | 117 | KIPS |
| SHEAR | 86 | KIPS |
| REACTIONS P | ERLEG | |
| COMPRESSION AXIAL | 708 | KIPS |
| COMPRESSION SHEAR | 52 | KIPS |
| LIPLIFT: AXIAL | 604 | KIPS |
| LIPLIFT SHEAR | 46 | KIPS |

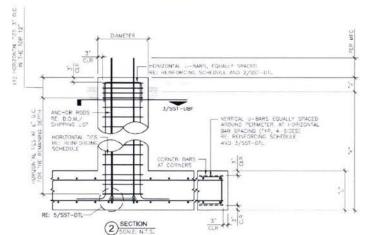
- REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT
- REPORT WHEN CONSTRUCTING THE FOUNDATION.
 GEOTECHNICAL PROPERTIES BY: DELTA DAKS GROUP PROJECT NUMBER:
- DATE: SEPTEMBER 29, 2020
 THIS FOUNDATION HAS BEEN DESIGNED. IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR
- CONCRETE VOLUME IN CUBIC VARDS: 134.56
 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.

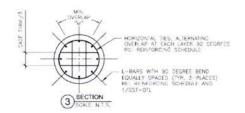
- ALL CONCRETE STRAIL HEET DURABLING COMPRESSAYE STREND IN OF HUDD STATES BURNS.

 CONCRETE THIS HALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF 12) 6" \$12" OR \$13" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$8" CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6" \$12" OR (6) 4" \$10" OR (6) 5" OR (PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
- BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6 TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION
- 10. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS

STIPULATION FOR REUSE:

1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED COCATION, USE OF THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE OF THIS DRAWING WAS SPECIFICALLY DESIGNED. DRAWING FUR REPERENCE OF EXAMPLE ON AND THER PROJECT REQUIRES THE SERVICES OF A PROPERTY DICENSED ENGINEER.







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



4020 TULL AVE. MUSKOGEE, DK 74403

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PROJECT INFORMATION.

PROJECT NO: 145800.001.01 SITE NAME: MT. VERNON SITE NO: 8657

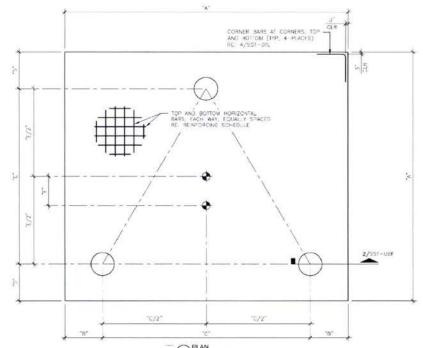
CLIENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: JL CHECKED BY:

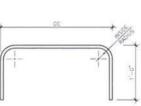
SHEET TITLE

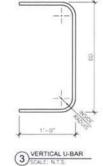
UNIT BASE FOUNDATION

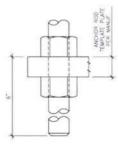
SHEET NUMBER: SST-UBF REVISION: 0











SCALE: N.T.S.



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



TELECOM STRUCTURES

4020 TULL AVE, MUSKOGEE, OK 74403

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IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS.
THEY ARE ACTING UNDER THE DIRECTIONS OF A LICENSES PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

PROJECT INFORMATION:

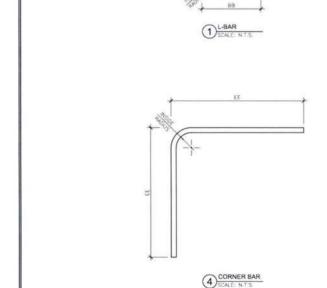
PROJECT NO: 145800.001.01 SITE NAME: MT. VERNON SITE NO: 8657 CUENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: JL CHECKED BY:

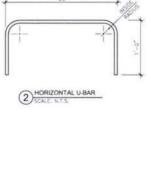
SHEET TITLE

DIMENSIONING DETAIL

SHEET NUMBER: SST-DTI REVISION: 0







SST Unit Base Foundation

Project #: 145800.001.01

Site Name: Mt. Vernon
Site #: 8657

TIA-222 Revision:

Н

| | Top & Bot. Pad Rein. Different?: |
|---|----------------------------------|
| 1 | Tower Centroid Offset?: |
| | Block Foundation?: |

| Superstructure Analysis Reactions | | | | |
|--------------------------------------------|-------|---------|--|--|
| Global Moment, M: | 16526 | ft-kips | | |
| Global Axial, P: | 117 | kips | | |
| Global Shear, V: | 86 | kips | | |
| Leg Compression, P _{comp} : | 708 | kips | | |
| Leg Comp. Shear, V _{u_comp} : | 52 | kips | | |
| Leg Uplift, Puplift: | 604 | kips | | |
| Leg Uplift. Shear, V _{u_uplift} : | 46 | kips | | |
| Tower Height, H: | 330 | ft | | |
| Base Face Width, BW: | 28.5 | ft | | |
| BP Dist. Above Fdn, bpdist: | 3 | in | | |

| Pier Properties | | |
|----------------------------------------|----------|----|
| Pier Shape: | Circular | |
| Pier Diameter, dpier: | 3.5 | ft |
| Ext. Above Grade, E: | 0.50 | ft |
| Pier Rebar Size, Sc: | 8 | |
| Pier Rebar Quantity, mc: | 18 | |
| Pier Tie/Spiral Size, St: | 4 | |
| Pier Tie/Spiral Quantity, mt: | 14 | |
| Pier Reinforcement Type: | Tie | |
| Pier Clear Cover, cc _{pier} : | 3 | in |

| Pad Properties | | |
|----------------------------------|-------|----|
| Depth, D: | 6.00 | ft |
| Pad Width, W: | 39.50 | ft |
| Pad Thickness, T: | 2.25 | ft |
| Pad Rebar Size (Bottom), Sp: | 8 | |
| Pad Rebar Quantity (Bottom), mp: | 41 | |
| Pad Clear Cover, ccpad: | 3 | in |

| Material Properties | | |
|-------------------------------------|-----|-----|
| Rebar Grade, Fy: | 60 | ksi |
| Concrete Compressive Strength, F'c: | 4 | ksi |
| Dry Concrete Density, δc: | 150 | pcf |

| Soil Properties | | | | |
|-----------------------------|--------|---------|--|--|
| Total Soil Unit Weight, γ: | 115 | pcf | | |
| Ultimate Net Bearing, Qnet: | 11.000 | ksf | | |
| Cohesion, Cu: | 1.750 | ksf | | |
| Friction Angle, φ: | 0 | degrees | | |
| SPT Blow Count, Nolows: | | | | |
| Base Friction, µ: | 0.3 | | | |
| Neglected Depth, N: | 2.5 | ft | | |
| Foundation Bearing on Rock? | No | | | |
| Groundwater Depth, gw: | None | ft | | |

| | Capacity | Demand | Rating | Check |
|-----------------------------------|----------|----------|--------|-------|
| Lateral (Sliding) (kips) | 572.49 | 86.00 | 15.0% | Pass |
| Bearing Pressure (ksf) | 8.77 | 3.14 | 35.8% | Pass |
| Overturning (kip*ft) | 21713.92 | 17535.59 | 80.8% | Pass |
| Pier Flexure (Comp.) (kip*ft) | 1628.34 | 221.00 | 13.6% | Pass |
| Pier Flexure (Tension) (kip*ft) | 339.71 | 195.50 | 57.5% | Pass |
| Pier Compression (kip) | 6123.66 | 715.36 | 11.7% | Pass |
| Pad Flexure (kip*ft) | 3191.61 | 2939.97 | 92.1% | Pass |
| Pad Shear - 1-way (kips) | 1011.77 | 432.28 | 42.7% | Pass |
| Pad Shear - Comp 2-way (ksi) | 0.190 | 0.160 | 84.5% | Pass |
| Flexural 2-way (Comp) (kip*ft) | 1640.67 | 132.60 | 8.1% | Pass |
| Pad Shear - Tension 2-way (ksi) | 0.190 | 0.146 | 76.8% | Pass |
| Flexural 2-way (Tension) (kip*ft) | 1640.67 | 117.30 | 7.1% | Pass |

Soil Rating: 80.8%
Structural Rating: 92.1%

<- Toggle between Gross and Net

Drilled Pier Foundation

Project # 145800.001.01 Site Name: Mt. Vernon Order Number: 8657

TIA-222 Revison: H
Tower Type: Self Support

| Applied Loads | | | | | | |
|--------------------|-------|--------------------|--|--|--|--|
| | Comp. | Uplift | | | | |
| Moment (kip-ft) | | THE REAL PROPERTY. | | | | |
| Axial Force (kips) | 708 | 604 | | | | |
| Shear Force (kips) | 52 | 46 | | | | |

| Material Properties | | | | | |
|--------------------------|----|-----|---------|--|--|
| Concrete Strength, f'c: | 4 | ksi | 1 11 11 | | |
| Rebar Strength, Fy: | 60 | ksi | | | |
| Tie Yield Strength, Fyt: | 40 | ksi | | | |

| Pier Desi | gn Data | |
|-----------------------|--------------|-------|
| Depth | 20 | ft |
| Ext. Above Grade | 0.5 | ft |
| Pier Sec | ction 1 | |
| From 0.5' above grade | to 20' below | grade |
| Pier Diameter | 6 | ft |
| Rebar Quantity | 26 | |
| Rebar Size | 8 | |
| Clear Cover to Ties | 3 | in |
| Tie Size | 4 | 7 |
| Tie Spacing | 12 | in |

Rebar & Pier Options

Embedded Pole Inputs

Belled Pier Inputs

| Analysi | s Results | |
|--------------------------------|-------------|---------|
| Soil Lateral Check | Compression | Uplift |
| D _{v=0} (ft from TOC) | 10.95 | 10.95 |
| Soil Safety Factor | 19.33 | 21.86 |
| Max Moment (kip-ft) | 434.52 | 384.38 |
| Rating | 6.9% | 6.1% |
| Soil Vertical Check | Compression | Uplift |
| Skin Friction (kips) | 558.14 | 558.14 |
| End Bearing (kips) | 1737.39 | * |
| Weight of Concrete (kips) | 104.33 | 78.25 |
| Total Capacity (kips) | 2295.52 | 636.38 |
| Axial (kips) | 812.33 | 604.00 |
| Rating | 35.4% | 94.9% |
| Reinforced Concrete Flexure | Compression | Uplift |
| Critical Depth (ft from TOC) | 11.05 | 9.70 |
| Critical Moment (kip-ft) | 434.43 | 374.16 |
| Critical Moment Capacity | 4200.04 | 1822.55 |
| Rating | 10.3% | 20.5% |
| Reinforced Concrete Shear | Compression | Uplift |
| Critical Depth (ft from TOC) | 17.58 | 17.58 |
| Critical Shear (kip) | 87.03 | 76.99 |
| Critical Shear Capacity | 723.19 | 357.02 |
| Rating | 12.0% | 21.6% |
| Soil Interaction Rating | 94.9 | 1% |
| | | |

| Check Limitation | |
|-------------------------------------|---------|
| Apply TIA-222-H Section 15.5: | |
| N/A | |
| Shear Design Options | |
| Check Shear along Depth of Pier: | J |
| Utilize Shear-Friction Methodology: | |
| Co to Soil Colo | 1 1 - 1 |

Go to Soil Calculations

| ENDOUGHOUSE THE STREET | Soil Profile | A THE RESERVE OF STREET |
|------------------------|---------------|-------------------------|
| Groundwater Depth N/A | # of Layers 7 | |

21.6%

Structural Foundation Rating

| Layer | Top (ft) | Bottom (ft) | Thickness (ft) | Y _{soil} (pcf) | Yconcrete (pcf) | Cohesion (ksf) | Angle of Friction (degrees) | Calculated Ultimate Skin Friction Comp (ksf) | Calculated Ultimate Skin Friction Uplift (ksf) | Ultimate Skin Friction Comp Override (ksf) | Ultimate Skin | Ult. Net Bearing Capacity (ksf) | SPT Blow Count | Soil Type |
|-------|-------------|----------------|-------------------|----------------------------|--------------------|-------------------|-----------------------------------|-------------------------------------------------------|------------------------------------------------|-----------------------------------------------------|---------------|------------------------------------------|-------------------|--------------|
| 1 | 0 | 3 | 3 | 110 | 150 | 0 | 0 | 0.000 | 0.000 | 0.00 | 0.00 | | | Cohesionless |
| 2 | 3 | 4 | 1 | 110 | 150 | 1.5 | 0 | 0.825 | 0.825 | 0.82 | 0.82 | | | Cohesive |
| 3 | 4 | 7 | 3 | 115 | 150 | 1.75 | 0 | 0.963 | 0.963 | 0.96 | 0.96 | | 9 | Cohesive |
| 4 | 7 | 9 | 2 | 120 | 150 | 2.75 | 0 | 1.513 | 1.513 | 1.51 | 1.51 | | | Cohesive |
| 5 | 9 | 14 | 5 | 130 | 150 | 6 | 0 | 2.700 | 2.700 | 2.40 | 2.40 | | | Cohesive |
| 6 | 14 | 17 | 3 | 125 | 150 | 4.25 | 0 | 2.123 | 2.123 | 2.12 | 2.12 | | | Cohesive |
| 7 | 17 | 20 | 3 | 140 | 150 | 12 | 0 | 5.40 | 5.40 | 4.80 | 4.80 | 79.46 | | Cohesive |

B+T Group 1717 S. Boulder Ave, Ste 300 Tulsa, OK 74119

Phone: (918) 587-4630 FAX: (918) 295-0265

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 1 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | 803 80000000000000000000000000000000000 | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 330.000 ft above the ground line.

The base of the tower is set at an elevation of 0.000 ft above the ground line.

The face width of the tower is 3.750 ft at the top and 28.500 ft at the base.

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

The following design criteria apply:

Tower is located in Rockcastle County, Kentucky.

Tower base elevation above sea level: 1317.000 ft.

Basic wind speed of 105 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.000 ft.

Nominal ice thickness of 1.500 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

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

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity...

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

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

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

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification

- √ Use Code Stress Ratios
- √ Use Code Safety Factors Guys Escalate Ice Always Use Max Kz Use Special Wind Profile
- √ Include Bolts In Member Capacity
- √ Leg Bolts Are At Top Of Section
- √ Secondary Horizontal Braces Leg
 Use Diamond Inner Bracing (4 Sided)
 SR Members Have Cut Ends
 SR Members Are Concentric

Distribute Leg Loads As Uniform Assume Legs Pinned

- √ Assume Rigid Index Plate
- √ Use Clear Spans For Wind Area
- √ Use Clear Spans For KL/r
 Retension Guys To Initial Tension
- √ Bypass Mast Stability Checks
- ✓ Use Azimuth Dish Coefficients
 ✓ Project Wind Area of Appurt
- Autocalc Torque Arm Areas Add IBC 6D+W Combination
- Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs

Use ASCE 10 X-Brace Ly Rules

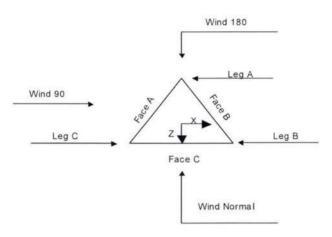
- √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA
- √ SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation
- √ Consider Feed Line Torque
- √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist Exemption Use TIA-222-H Tension Splice Exemption

Poles

Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known

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| Job | ATS #8657 - Mt Vernon (Site# KYLEX2044) | Page 2 of 40 |
|---------|-----------------------------------------|---------------------------|
| Project | 330' SST/ 37.353261, -84.327297 | Date 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |



Triangular Tower

| Tower | Section | Geomet | ry |
|-------|---------|--------|----|
|-------|---------|--------|----|

| Tower | Tower | Assembly | Description | Section | Number | Section |
|---------|-----------------|----------|-------------|---------|----------|---------|
| Section | Elevation | Database | - 0 | Width | of | Length |
| | | | | | Sections | C. |
| | ft | | | ft | | ft |
| T1 | 330 000-320 000 | | | 3.750 | 1 | 10.000 |
| T2 | 320.000-300.000 | | | 4.500 | 1 | 20,000 |
| T3 | 300 000-280 000 | | | 6.000 | 1 | 20.000 |
| T4 | 280.000-260.000 | | | 7.500 | 1 | 20.000 |
| T5 | 260.000-240.000 | | | 9.000 | 1 | 20.000 |
| T6 | 240.000-220.000 | | | 10.500 | 1 | 20.000 |
| T7 | 220.000-200.000 | | | 12.000 | 1 | 20.000 |
| T8 | 200.000-180.000 | | | 13.500 | 1 | 20.000 |
| Т9 | 180.000-160.000 | | | 15.000 | 1 | 20.000 |
| T10 | 160.000-140.000 | | | 16.500 | 1 | 20.000 |
| T11 | 140.000-120.000 | | | 18.000 | 1 | 20.000 |
| T12 | 120.000-100.000 | | | 19.500 | 1 | 20.000 |
| T13 | 100.000-80.000 | | | 21.000 | 1 | 20.000 |
| T14 | 80.000-60.000 | | | 22.500 | 1 | 20.000 |
| T15 | 60.000-40.000 | | | 24.000 | 1 | 20.000 |
| T16 | 40.000-20.000 | | | 25.500 | 1 | 20.000 |
| T17 | 20.000-0.000 | | | 27.000 | 1 | 20.000 |

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| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower | Tower | Diagonal | Bracing | Has | Has | Top Girt | Bottom Giri |
|---------|-----------------|----------|----------|---------------------|-----|----------|-------------|
| Section | Elevation | Spacing | Type | Type K Brace End | | Offset | Offset |
| | fi | ft | | Panels | | in | in |
| T1 | 330.000-320.000 | 4.500 | X Brace | No | No | 6.000 | 6.000 |
| T2 | 320.000-300.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T3 | 300.000-280.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T4 | 280.000-260.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T5 | 260.000-240.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T6 | 240.000-220.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T7 | 220.000-200.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T8 | 200.000-180.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T9 | 180.000-160.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T10 | 160.000-140.000 | 4.750 | X Brace | No | No | 6.000 | 6.000 |
| T11 | 140.000-120.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |
| T12 | 120.000-100.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |
| T13 | 100.000-80.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |
| T14 | 80.000-60.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |
| T15 | 60.000-40.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |
| T16 | 40.000-20.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |
| T17 | 20.000-0.000 | 4.750 | Double K | No | Yes | 6.000 | 6.000 |

| Tower | Leg | Leg | Leg | Diagonal | Diagonal | Diagonal |
|------------------|-------------|-------|----------|-----------------------------------------|------------------------|----------|
| Elevation | Type | Size | Grade | Type | Size | Grade |
| ft | 15.50 | | | | | |
| T1 | Solid Round | 1 3/4 | A529-50 | Equal Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 330.000-320.000 | | | (50 ksi) | | | (50 ksi) |
| T2 | Solid Round | 2 | A529-50 | Equal Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 320.000-300.000 | | | (50 ksi) | 24.9 (4.00) (4.00) | | (50 ksi) |
| T3 | Solid Round | 2 1/2 | A529-50 | Equal Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 300.000-280.000 | | | (50 ksi) | | | (50 ksi) |
| T4 | Solid Round | 2 3/4 | A529-50 | Equal Angle | L2x2x3/16 | A36M-50 |
| 280.000-260.000 | | | (50 ksi) | | | (50 ksi) |
| T5 | Solid Round | 3 | A529-50 | Equal Angle | L2 1/2x2 1/2x3/16 | A36M-50 |
| 260.000-240.000 | | | (50 ksi) | | | (50 ksi) |
| T6 | Solid Round | 3 1/4 | A529-50 | Equal Angle | L2 1/2x2 1/2x3/16 | A36M-50 |
| 240.000-220.000 | | | (50 ksi) | | | (50 ksi) |
| T7 | Solid Round | 3 1/2 | A529-50 | Equal Angle | L3x3x3/16 | A36M-50 |
| 220.000-200.000 | | | (50 ksi) | Contract to the second of the second of | | (50 ksi) |
| T8 | Solid Round | 3 3/4 | A529-50 | Equal Angle | L3x3x3/16 | A36M-50 |
| 200.000-180.000 | | | (50 ksi) | | | (50 ksi) |
| T9 | Solid Round | 3 3/4 | A529-50 | Equal Angle | L3x3x3/16 | A36M-50 |
| 180.000-160.000 | | | (50 ksi) | | | (50 ksi) |
| T10 | Solid Round | 4 | A529-50 | Equal Angle | L3x3x1/4 | A36M-50 |
| 160.000-140.000 | | | (50 ksi) | | | (50 ksi) |
| TII | Solid Round | 4 1/4 | A529-50 | Double Angle | 2L2 1/2x2 1/2x3/16x3/8 | A36M-50 |
| 140.000-120.000 | | | (50 ksi) | | | (50 ksi) |
| T12 | Solid Round | 4 1/4 | A529-50 | Double Angle | 2L2 1/2x2 1/2x3/16x3/8 | A36M-50 |
| 120.000-100.000 | | | (50 ksi) | | | (50 ksi) |
| T13 | Solid Round | 4 1/2 | A529-50 | Double Angle | 2L3x3x3/16x3/8 | A36M-50 |
| 100.000-80.000 | | | (50 ksi) | | | (50 ksi) |
| T14 | Solid Round | 4 1/2 | A529-50 | Double Angle | 2L3x3x3/16x3/8 | A36M-50 |
| 80.000-60.000 | | | (50 ksi) | | | (50 ksi) |
| T15 | Solid Round | 4 3/4 | A529-50 | Double Angle | 2L3x3x3/16x3/8 | A36M-50 |
| 60.000-40.000 | | | (50 ksi) | | | (50 ksi) |
| T16 | Solid Round | 4 3/4 | A529-50 | Double Angle | 2L3x3x3/16x3/8 | A36M-50 |
| 40.000-20.000 | | | (50 ksi) | F | | (50 ksi) |
| T17 20.000-0.000 | Solid Round | 5 | A529-50 | Double Angle | 2L3x3x1/4x3/8 | A36M-50 |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | NOW TO CONTROL COMMENTS | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower Elevation ft | Leg Type | Leg Size | Leg Grade | Diagonal Type | Diagonal Size | Diagona Grade |
|--------------------------|-------------|-------------|--------------|------------------|------------------|------------------|
| | | | (50 ksi) | | | (50 ksi) |

Tower Section Geometry (cont'd)

| Tower Elevation ft | Top Girt Type | Top Girt Size | Top Girt Grade | Bottom Girt Type | Bottom Girt Size | Bottom Girt Grade |
|--------------------------|------------------|-------------------|---------------------|---------------------|---------------------|----------------------|
| T1 330.000-320.000 | Equal Angle | L1 3/4x1 3/4x3/16 | A36M-50 (50 ksi) | Solid Round | | A529-50 (50 ksi) |

Tower Section Geometry (cont'd)

| Tower | No. | Mid Girt | Mid Girt | Mid Girt | Horizontal | Horizontal | Horizontal |
|------------------|-----------|----------|----------|----------|-----------------------------------|------------------------|------------|
| Elevation | of Mid | Type | Size | Grade | Type | Size | Grade |
| ft | Girts | | | | | | |
| T11 | None | Flat Bar | | A36 | Double Angle | 2L1 3/4x1 3/4x3/16x3/8 | A36M-50 |
| 140.000-120.000 | | | | (36 ksi) | Company of the Company of Company | | (50 ksi) |
| T12 | None | Flat Bar | | A36 | Double Angle | 2L2x2x3/16x3/8 | A36M-50 |
| 120.000-100.000 | | | | (36 ksi) | | | (50 ksi) |
| T13 | None | Flat Bar | | A36 | Double Angle | 2L2 1/2x2 1/2x3/16x3/8 | A36M-50 |
| 100.000-80.000 | | | | (36 ksi) | | | (50 ksi) |
| T14 | None | Flat Bar | | A36 | Double Angle | 2L2 1/2x2 1/2x3/16x3/8 | A36M-50 |
| 80.000-60.000 | | | | (36 ksi) | | | (50 ksi) |
| T15 | None | Flat Bar | | A36 | Double Angle | 2L2 1/2x2 1/2x3/16x3/8 | A36M-50 |
| 60.000-40.000 | | | | (36 ksi) | | | (50 ksi) |
| T16 | None | Flat Bar | | A36 | Double Angle | 2L2 1/2x2 1/2x3/16x3/8 | A36M-50 |
| 40.000-20.000 | | | | (36 ksi) | - Cara | | (50 ksi) |
| T17 20.000-0.000 | None | Flat Bar | | A36 | Double Angle | 2L3x3x3/16x3/8 | A36M-50 |
| | | | | (36 ksi) | | | (50 ksi) |

| Tower Elevation | Secondary Horizontal Type | Secondary Horizontal Size | Secondary Horizontal Grade | Inner Bracing Type | Inner Bracing Size | Inner Bracing Grade |
|--------------------|------------------------------|------------------------------|----------------------------------|-----------------------|--------------------|------------------------|
| ft | | | | | | |
| T11 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 140.000-120.000 | | | (50 ksi) | | | (50 ksi) |
| T12 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 120.000-100.000 | | | (50 ksi) | | | (50 ksi) |
| T13 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 100.000-80.000 | | | (50 ksi) | | | (50 ksi) |
| T14 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 80.000-60.000 | | | (50 ksi) | | | (50 ksi) |
| T15 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 60.000-40.000 | | | (50 ksi) | | | (50 ksi) |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | 7777720 | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower Elevation | Secondary Horizontal Type | Secondary Horizontal Size | Secondary Horizontal Grade | Inner Bracing Type | Inner Bracing Size | Inner Bracing Grade |
|--------------------|------------------------------|------------------------------|----------------------------------|-----------------------|--------------------|------------------------|
| T16 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| 40.000-20.000 | | | (50 ksi) | | | (50 ksi) |
| Г17 20.000-0.000 | Solid Round | | A572-50 | Single Angle | L1 3/4x1 3/4x3/16 | A36M-50 |
| | | | (50 ksi) | | | (50 ksi) |

| Tower Elevation | Gusset Area (per face) | Gusset Thickness | Gusset Grade | Adjust. Factor A _f | Adjust. Factor A, | Weight Mult. | Double Angle Stitch Bolt Spacing Diagonals | Double Angle Stitch Bolt Spacing Horizontals | Stitch Bolt Spacing Redundants |
|--------------------|------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------|--------------|-----------------------------------------------------|-------------------------------------------------------|-----------------------------------------|
| ft | ft² | in | WAS SELECTED TO THE SELECTED T | | | | in | in | in |
| T1 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 330.000-320.0 | | | (50 ksi) | | | | | | |
| 00 | | | | | | | | | |
| T2 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 320.000-300.0 | | | (50 ksi) | | | | | | |
| 00 | | | | | | | | | |
| T3 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 300.000-280.0 | | | (50 ksi) | | | | | | |
| 00 | | | | | | | | | |
| T4 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 280.000-260.0 | | | (50 ksi) | | | | | | |
| 00 | | | | | | | | | |
| T5 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 260.000-240.0 | | | (50 ksi) | | | | | | |
| 00 | | | | | | | | | |
| T6 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 240 000-220 0 | | | (50 ksi) | | | | | | |
| 00 | | | 7.1 | | | | | | |
| T7 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 220.000-200.0 | | | (50 ksi) | | | | | | |
| 00 | | | (| | | | | | |
| Т8 | 0.000 | 0.375 | A36M-50 | I | I | 1 | 36.000 | 36.000 | 36.000 |
| 200.000-180.0 | | (COA)(A)(A) | (50 ksi) | | | | | | |
| 00 | | | 45.5.5.5.5 | | | | | | |
| T9 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 180.000-160.0 | | | (50 ksi) | | | | | | |
| 00 | | | Maria Control (| | | | | | |
| T10 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | 36.000 | 36.000 | 36.000 |
| 160.000-140.0 | | 1012(12) | (50 ksi) | (2) | 28 | | | | |
| 00 | | | (5.5.554) | | | | | | |
| T11 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 140.000-120.0 | | | (50 ksi) | | | | | | |
| 00 | | | (a.e. mar) | | | | | | |
| T12 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 120.000-100.0 | | | (50 ksi) | | | | | | |
| 00 | | | ATUT CONTA | | | | | | |
| T13 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 100.000-80.00 | 178753636361 | Carl economic | (50 ksi) | | • | | | 37783055 | ************************************** |
| 0 | | | (50 151) | | | | | | |
| T14 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 80.000-60.000 | CHESCHEM. | 8.2.5 | (50 ksi) | | *** | 9.5 | 1,111.04 | | #0.000.000.000.000.000.000.000.000.000. |
| T15 | 0.000 | 0.375 | A36M-50 | 1 | î. | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 60.000-40.000 | 0.000 | 0.575 | (50 ksi) | | 100 | 35 | WIIG-11 | ma-r-t | 30.000 |
| 00.000-40.000 | | | (20 KSI) | | | | | | |

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|---------|-----------------------------------------|------------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 6 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| 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 | Double Angle Stitch Bolt Spacing Horizontals | Double Angle Stitch Bolt Spacing Redundants |
|--------------------|------------------------------|---------------------|--------------|----------------------------------|-------------------------------------|--------------|-----------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|
| ft | ft ² | in | | | | | in | in | in |
| T16 | 0.000 | 0.375 | A36M-50 | 1 | I | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 40.000-20.000 | | | (50 ksi) | | | | | | |
| T17 | 0.000 | 0.375 | A36M-50 | 1 | 1 | 1 | Mid-Pt | Mid-Pt | 36.000 |
| 20.000-0.000 | | | (50 ksi) | | | | | | |

| | | | | | | K Fa | | | | |
|---------------------|-------------------------------|------------------------------|------|--------------------------|--------------------------|----------------------|------------|-------------|---------------------|---------------------|
| Tower Elevation | Calc K Single Angles | Calc K Solid Rounds | Legs | X Brace Diags X | K Brace Diags X | Single Diags X | Girts X | Horiz. X | Sec. Horiz. X | Inner Brace X |
| ft | g.cs | rounus | | Ŷ | Y | Y | Y | Ϋ́ | Y | Y |
| ŤΙ | No | No | 1 | 1 | 1 | I | 1 | 1 | 1 | 1 |
| 330.000-320.0 | | | | 1 | 1 | I | 1 | 1 | 1 | 1 |
| T2 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 320.000-300.0 00 | | | | 1 | 1 | I | 1 | 1 | 1 | 1 |
| T3 | No | No | 1 | 1 | 1 | I | 1 | 1 | 1 | 1 |
| 300.000-280.0 00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T4 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 280.000-260.0 00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T5 | No | No | 1 | 1 | 1 | I | 1 | 1 | 1 | 1 |
| 260.000-240.0 00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T6 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 240.000-220.0 00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T7 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 220.000-200.0 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T8 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 200.000-180.0 00 | | | | 1 | I | 1 | 1 | I | 1 | 1 |
| T9 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 180 000-160 0 00 | | | | 1 | 1 | 1 | 1 | 1. | 1 | 1 |
| T10 | No | No | 1 | 1 | 1 | 1 | 1 | I | 1 | 1 |
| 160.000-140.0 00 | X1 | | IV. | 1 | 1 | 1 | Ţ | I. | 1 | 1 |
| T11 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 140.000-120.0 00 | | | | 1 | 1 | 1 | 1 | L | 1 | I |
| T12 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 120.000-100.0 00 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T13 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 0 00.000 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T14 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80.000-60.000 | 2.2 | 60 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| T15 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 7 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmani / INITI) Tayyara | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| | | 5. 22 | K Factors ^t | | | | | | | | | |
|--------------------|---------------------|--------------------|------------------------|---------------------|---------------------|-----------------|-------|--------|----------------|----------------|--|--|
| Tower Elevation | Calc K Single | Calc K Solid | Legs | X Brace Diags | K Brace Diags | Single Diags | Girts | Horiz. | Sec. Horiz. | Inner Brace | | |
| | Angles | Rounds | | X | X | X | X | X | X | X | | |
| ft | | | | Y | Y | Y | Y | Y | Y | Y | | |
| 60.000-40.000 | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| T16 | No | No | I | 1 | 1 | 1 | I | 1 | 1 | 1 | | |
| 40.000-20.000 | | | | 1 | 1 | 1 | I | 1 | 1 | 1 | | |
| T17 | No | No | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 20.000-0.000 | | | | 1 | 1 | 1 | I | 1 | 1 | 1 | | |

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

| Tower Elevation ft | Leg | | Diago | nal | Top G | irt | Botton | n Girt | Mid | Girt | Long Ho | orizontal | Short He | orizontal |
|----------------------------------|---------------------------|---|---------------------------|------|---------------------------|------|------------------------------|--------|------------------------------|------|------------------------------|-----------|------------------------------|-----------|
| ,, | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T1 330.000-320.0 00 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T2 320 000-300.0 00 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0 000 | 0.75 |
| T3 300 000-280 0 00 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T4 280.000-260.0 00 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T5 260.000-240.0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 00 T6 240 000-220 0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 00 T7 220.000-200.0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 00 T8 200.000-180.0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 180.000-160.0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 00 T10 160.000-140.0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 00 T11 140 000-120 0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| 00 T12 120.000-100.0 00 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |

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| Job | | Page |
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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 8 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower Elevation ft | Leg | | Diago | nal | Top G | irt | Botton | a Girt | Mid | Girt | Long Ho | rizontal | Short Ho | prizontal |
|---------------------------|---------------------------|---|---------------------------|------|---------------------------|------|------------------------------|--------|------------------------------|------|------------------------------|----------|------------------------------|-----------|
| *** | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U | Net Width Deduct in | U |
| T13 100.000-80.00 0 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T14 80.000-60.000 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T15 60.000-40.000 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T16 40 000-20 000 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |
| T17 20.000-0.000 | 0.000 | 1 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 | 0.000 | 0.75 |

| Tower Elevation ft | Leg Connection Type | Leg | | Diago | nal | Top G | irt | Bottom | Girt | Mid G | irt | Long Hori | zontal | Short Hor | izontai |
|----------------------------|---------------------------|----------------|-----|----------------|-----|----------------|-----|----------------|------|----------------|-----|----------------|--------|----------------|---------|
| <i>, t</i> | Туре | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. |
| T1 330.000-320.0 00 | Flange | 0.000 A325N | 0 | 0.625 A325X | 1 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T2 320.000-300.0 00 | Flange | 0.750 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T3 300.000-280.0 | Flange | 0.750 A325N | 6 | 0.625 A325X | ı | 0,000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T4 280 000-260 0 | Flange | 0.750 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T5 260 000-240 0 | Flange | 0.750 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T6 240 000-220 0 00 | Flange | 1.000 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T7 220.000-200.0 00 | Flange | 1.000 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T8 200.000-180.0 00 | Flange | 1.000 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T9 180 000-160 0 | Flange | 1.000 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T10 160 000-140 0 | Flange | 1.250 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.000 A325X | 0 | 0.625 A325N | 0 |
| T11 140.000-120.0 00 | Flange | 1.250 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |

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| Job | | Page |
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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 9 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | 77 77700-0 | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower Elevation ft | Leg Connection Type | Leg | | Diago | nal | Top G | irt | Bottom | Girt | Mid G | irt | Long Hor | izontal | Short Hori | izontal |
|----------------------------|---------------------------|----------------|-----|----------------|-----|----------------|-----|----------------|------|----------------|-----|----------------|---------|----------------|---------|
| <i></i> | 1,740 | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. | Bolt Size | No. |
| T12 120 000-100 0 00 | Flange | 1.250 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |
| T13 100.000-80.00 0 | Flange | 1.250 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |
| T14 80 000-60 000 | Flange | 1.250 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |
| T15 60.000-40.000 | Flange | 1.250 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |
| T16 40.000-20.000 | Flange | 1.500 A325N | 6 | 0.625 A325X | 1 | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |
| T17 20.000-0.000 | Flange | 1.500 A325N | 6 | 0.625 A325X | I | 0.000 A325N | 0 | 0.000 A325N | 0 | 0.625 A325N | 0 | 0.625 A325X | 1 | 0.625 A325N | 0 |

Feed Line/Linear Appurtenances - Entered As Round Or Flat

| Description | Face or Leg | Allow Shield | Exclude From Torque Calculation | Component Type | Placement fi | Face Offset in | Lateral Offset (Frac FW) | # | # Per Row | Clear Spacing in | Width or Diameter in | Perimeter in | Weight klf |
|----------------------------|-------------------|-----------------|------------------------------------------|-------------------|----------------------------|----------------------|--------------------------------|---|-----------------|------------------------|----------------------------|-----------------|---------------|
| 1-5/8" (Carrier 1) | С | No | No | Ar (CaAa) | 325.000 - 10.000 | 0.000 | 0 | 9 | 5 | 0.750 | 1.980 | | 0.001 |
| 1.5" Hybrid (Carrier 1) | С | No | No | Ar (CaAa) | 325.000 - 10.000 | 0.000 | -0 25 | 6 | 3 | 0.750 | 1.500 | | 0.001 |
| 1-5/8" (Carrier 2) | В | No | No | Ar (CaAa) | 313.000 - 10.000 | 0.000 | 0 | 9 | 5 | 0.750 | 1.980 | | 0.001 |
| 1.5" Hybrid (Carrier 2) | В | No | No | Ar (CaAa) | 313.000 - 10.000 | 0.000 | -0.25 | 6 | 3 | 0.750 | 1.500 | | 0.001 |
| 1-5/8" (Carrier 3) | A | No | No | Ar (CaAa) | 301.000 - 10.000 | 0.000 | 0 | 9 | 5 | 0.750 | 1.980 | | 0.001 |
| 1.5" Hybrid (Carrier 3) | A | No | No | Ar (CaAa) | 301.000 - 10.000 | 0.000 | -0.25 | 6 | 3 | 0.750 | 1.500 | | 0.001 |
| 1-5/8" (Carrier 4) | C | No | No | Ar (CaAa) | 289.000 - 10.000 | 0.000 | 0.35 | 2 | 1 | 0.750 | 1.980 | | 0.001 |
| 1-5/8" (Carrier 5) | C | No | No | Ar (CaAa) | 277.000 - 10.000 | 0.000 | 0.4 | 2 | 1 | 0.750 | 1.980 | | 0.001 |
| Safety Line 3/8 | Α | No | No | Ar (CaAa) | 330.000 - 10.000 | 0.000 | 0.45 | 1 | 1 | 0.375 | 0.375 | | 0.000 |
| Strobe Cable | Α | No | No | Ar (CaAa) | 330.000 - 10.000 | 0.000 | -0.45 | 1 | 1 | 1.250 | 1.250 | | 100.0 |
| Feedline Ladder (Af) | C | No | No | Af (CaAa) | 325 000 - 10 000 | 0.000 | 0.3 | 1 | 1 | 3.000 | 0.250 | | 0.008 |
| Feedline Ladder (Af) | В | No | No | Af (CaAa) | 313.000 - 10.000 | 0.000 | 0.3 | 1 | 1 | 3.000 | 0.250 | | 0.008 |
| Feedline Ladder (Af) | Α | No | No | Af (CaAa) | 301.000 - 10.000 | 0.000 | 0.3 | 1 | 1 | 3.000 | 0.250 | | 0.008 |

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| Job | | Page |
|---------|-----------------------------------------|------------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 10 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

Feed Line/Linear Appurtenances Section Areas

| Tower Section | Tower Elevation | Face | A_R | A_F | C_AA_A In Face | C_AA_A Out Face | Weigh |
|------------------|--------------------|------|-------|-----------------|------------------|----------------------|-------|
| | fi | | ft² | ft ² | ft² | ft² | K |
| T1 | 330.000-320.000 | A | 0.000 | 0.000 | 1 625 | 0.000 | 0.009 |
| | | В | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | C | 0.000 | 0.000 | 13.618 | 0.000 | 0.103 |
| T2 | 320.000-300.000 | A | 0.000 | 0.000 | 5.974 | 0.000 | 0.039 |
| | | В | 0.000 | 0.000 | 35.408 | 0.000 | 0.267 |
| | | C | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| T3 | 300.000-280.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| (3)200 | | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 58.037 | 0.000 | 0.423 |
| T4 | 280.000-260.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| | 200,000 200,000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 69.125 | 0.000 | 0.464 |
| T5 | 260.000-240.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| | 200.000 210.000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T6 | 240.000-220.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 10 | 2.0.000-220.000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T7 | 220.000-200.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 4.7 | 220.000-200.000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T8 | 200.000-180.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 10 | 200.000-100.000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T9 | 180.000-160.000 | A | 0.000 | 0.000 | 57 723 | 0.000 | 0.429 |
| 19 | 180,000-100,000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T10 | 160.000-140.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 110 | 100.000-140.000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T11 | 140.000-120.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 111 | 140,000-120,000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.429 |
| | | C | 0.000 | 0.000 | 70 313 | 0.000 | 0.468 |
| T12 | 120.000-100.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 112 | 120.000-100.000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.429 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.410 |
| T13 | 100.000-80.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.408 |
| 113 | 100.000-80.000 | В | 0.000 | 0.000 | 54 473 | 0.000 | 0.410 |
| | | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T14 | 80.000-60.000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| 1.14 | 80,000-00,000 | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.429 |
| | | C | 0.000 | 0.000 | | 0.000 | 0.410 |
| T15 | 60.000-40.000 | A | | 0.000 | 70.313 57.723 | 0.000 | 0.408 |
| 115 | 00.000-40.000 | | 0.000 | | 54.473 | 0.000 | 0.429 |
| | | В | 0.000 | 0.000 | | | |
| TIL | 40,000,30,000 | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T16 | 40 000-20 000 | A | 0.000 | 0.000 | 57.723 | 0.000 | 0.429 |
| | | В | 0.000 | 0.000 | 54.473 | 0.000 | 0.410 |
| 2712 | 20.000.0.000 | C | 0.000 | 0.000 | 70.313 | 0.000 | 0.468 |
| T17 | 20.000-0.000 | A | 0.000 | 0.000 | 28.862 | 0.000 | 0.214 |
| | | В | 0.000 | 0.000 | 27 237 | 0.000 | 0.205 |
| | | C | 0.000 | 0.000 | 35.157 | 0.000 | 0.234 |

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

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 11 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | 94 9786/02/33/32/34 USS | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower Section | Tower Elevation | Face or | Ice Thickness | A_R | A_F | C_AA_A In Face | C_AA_A Out Face | Weigh |
|------------------|-----------------------------|------------|------------------|-------|-----------------|------------------|-------------------|-------|
| | ft | Leg | in | ft² | ft ² | ft² | ft^2 | K |
| T1 | 330.000-320.000 | A | 1.886 | 0.000 | 0.000 | 9.167 | 0.000 | 0.134 |
| | | В | | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| | | C | | 0.000 | 0.000 | 21.491 | 0.000 | 0.445 |
| T2 | 320.000-300.000 | A | 1.877 | 0.000 | 0.000 | 22.553 | 0.000 | 0.354 |
| | 220.000.000.000 | В | 1.077 | 0.000 | 0.000 | 55.773 | 0.000 | 1.153 |
| | | C | | 0.000 | 0.000 | 85.804 | 0.000 | 1.775 |
| T3 | 300.000-280.000 | A | 1.864 | 0.000 | 0.000 | 103.746 | 0 000 | 2.028 |
| 12 | 500.000-200.000 | В | 1.004 | 0.000 | 0.000 | 85.583 | 0.000 | 1.766 |
| | | C | | 0.000 | 0.000 | 97.044 | 0.000 | 1.936 |
| T4 | 280.000-260.000 | A | 1.851 | 0.000 | 0.000 | 103.405 | 0.000 | 2.015 |
| 1.40 | 200,000-200,000 | В | 1.031 | 0.000 | 0.000 | 85.348 | 0.000 | 1.756 |
| | | C | | 0.000 | 0.000 | 132.295 | 0.000 | 2.450 |
| T5 | 260.000-240.000 | A | 1.837 | 0.000 | 0.000 | 103.040 | 0.000 | 2.002 |
| 13 | 200.000-240.000 | В | 1.037 | 0.000 | 0.000 | 85.096 | 0.000 | 1.746 |
| | | C | | 0.000 | 0.000 | 135 653 | 0.000 | 2.489 |
| T6 | 240.000-220.000 | A | 1.821 | 0.000 | | | 0.000 | 1.988 |
| 10 | 240.000-220.000 | B | 1.821 | | 0.000 | 102.647 | | |
| | | | | 0.000 | 0.000 | 84.826 | 0.000 | 1.735 |
| T7 | 220 000 200 000 | C | 1 205 | 0.000 | 0.000 | 135.171 | 0.000 | 2.469 |
| 17 | 220.000-200.000 | A B | 1.805 | 0.000 | 0.000 | 102.223 | 0.000 | 1.972 |
| | | | | 0.000 | 0.000 | 84.533 | 0.000 | 1.723 |
| mo: | 200 000 100 000 | C | 1 707 | 0.000 | 0.000 | 134.650 | 0.000 | 2 449 |
| T8 | 200.000-180.000 | A | 1.787 | 0.000 | 0.000 | 101.761 | 0.000 | 1.956 |
| | | В | | 0.000 | 0.000 | 84.215 | 0.000 | 1.710 |
| mo | | C | | 0.000 | 0.000 | 134.082 | 0.000 | 2,426 |
| Т9 | 180.000-160.000 | A | 1.767 | 0.000 | 0.000 | 101.252 | 0.000 | 1.938 |
| | | В | | 0.000 | 0.000 | 83.865 | 0.000 | 1.696 |
| W.75 | 1020001 872555 | C | | 0.000 | 0.000 | 133.458 | 0.000 | 2.401 |
| T10 | 160.000-140.000 | Α | 1.745 | 0.000 | 0.000 | 100.687 | 0.000 | 1.918 |
| | | В | | 0.000 | 0.000 | 83.475 | 0.000 | 1.681 |
| 1020101 | 2012/02/2017 (0.2/2012/2013 | C | | 0.000 | 0.000 | 132.763 | 0.000 | 2.374 |
| T11 | 140.000-120.000 | Α | 1.720 | 0.000 | 0.000 | 100.049 | 0.000 | 1.895 |
| | | В | | 0.000 | 0.000 | 83.036 | 0.000 | 1.664 |
| | | C | | 0.000 | 0.000 | 131.980 | 0.000 | 2.344 |
| T12 | 120.000-100.000 | A | 1.692 | 0.000 | 0.000 | 99.316 | 0.000 | 1.869 |
| | | В | | 0.000 | 0.000 | 82.531 | 0.000 | 1.644 |
| | | C | | 0.000 | 0.000 | 131.080 | 0.000 | 2.309 |
| T13 | 100.000-80.000 | A | 1.658 | 0.000 | 0.000 | 98.452 | 0.000 | 1.839 |
| | | B | | 0.000 | 0.000 | 81.936 | 0.000 | 1.621 |
| | | C | | 0.000 | 0.000 | 130.019 | 0.000 | 2.268 |
| T14 | 80.000-60.000 | A | 1.617 | 0.000 | 0.000 | 97.395 | 0.000 | 1.803 |
| | | B | | 0.000 | 0.000 | 81.207 | 0.000 | 1.592 |
| | | C | | 0.000 | 0.000 | 128.721 | 0.000 | 2.219 |
| T15 | 60.000-40.000 | A | 1.564 | 0.000 | 0.000 | 96.020 | 0.000 | 1.756 |
| | | В | | 0.000 | 0.000 | 80.261 | 0.000 | 1.556 |
| | | C | | 0.000 | 0.000 | 127.033 | 0.000 | 2.155 |
| T16 | 40 000-20 000 | A | 1.486 | 0.000 | 0.000 | 94 020 | 0.000 | 1.689 |
| | | В | | 0.000 | 0.000 | 78.884 | 0.000 | 1.504 |
| | | C | | 0.000 | 0.000 | 124.579 | 0.000 | 2.065 |
| T17 | 20.000-0.000 | A | 1.331 | 0.000 | 0.000 | 45.026 | 0.000 | 0.781 |
| | | В | pichare | 0.000 | 0.000 | 38.076 | 0.000 | 0.702 |
| | | C | | 0.000 | 0.000 | 59.857 | 0.000 | 0.946 |

Feed Line Center of Pressure

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

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 12 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmani (HNITI) Tayyara | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section | Elevation | CP_X | CP_Z | CP_X | CP_Z |
|---------|-----------------|--------|--------|--------|--------|
| | 1901 | | | Ice | Ice |
| | ft | in | in | in | in |
| T1 | 330.000-320.000 | 0.395 | 3.280 | -0.928 | 1.980 |
| T2 | 320.000-300.000 | 3.181 | 0.385 | 1.860 | 1.053 |
| T3 | 300.000-280.000 | -0.427 | -2.257 | -1.544 | -1.224 |
| T4 | 280.000-260.000 | -1.746 | -0.644 | -3.654 | 1.088 |
| T5 | 260.000-240.000 | -1.963 | -0.492 | -4.199 | 1.430 |
| T6 | 240.000-220.000 | -2.137 | -0.534 | -4.602 | 1.556 |
| T7 | 220.000-200.000 | -2.143 | -0.539 | -4.811 | 1.626 |
| T8 | 200.000-180.000 | -2.263 | -0.569 | -5.110 | 1.723 |
| T9 | 180.000-160.000 | -2.381 | -0.599 | -5.389 | 1.813 |
| T10 | 160.000-140.000 | -2.479 | -0.624 | -5.624 | 1.890 |
| T11 | 140.000-120.000 | -3.187 | -0.784 | -6.677 | 2.210 |
| T12 | 120.000-100.000 | -3.290 | -0.811 | -6.915 | 2.290 |
| T13 | 100.000-80.000 | -3.143 | -0.782 | -6.857 | 2.285 |
| T14 | 80.000-60.000 | -3.248 | -0.809 | -7.047 | 2.350 |
| T15 | 60.000-40.000 | -3.335 | -0.831 | -7.177 | 2.396 |
| T16 | 40.000-20.000 | -3.422 | -0.854 | -7.262 | 2 430 |
| T17 | 20.000-0.000 | -1.992 | -0.511 | -4.248 | 1.464 |

Shielding Factor Ka

| K., Ice | K _a No Ice | Feed Line Segment Elev. | Description | Feed Line Record No. | Tower Section |
|-----------------|--------------------------|----------------------------|------------------------|-------------------------|------------------|
| | 0.6000 | | 1-5/8" | Record No. | T1 |
| 0.5262 | 0.6000 | 320.00 - 325.00 | 1-5/8 | | 11 |
| 0.5262 | 0.6000 | 320.00 | 1.5" Hybrid | 2 | T1 |
| 0.3202 | 0.0000 | 325.00 | 1.5 Hyond | | 1.1 |
| 0.5262 | 0.6000 | 320.00 - | Safety Line 3/8 | 14 | T1 |
| N. 10.20 | 0.3000 | 330.00 | outery Line 270 | | |
| 0.5262 | 0.6000 | 320.00 - | Strobe Cable | 15 | T1 |
| | Lacescenticin | 330.00 | | 1995) | |
| 0.5262 | 0.6000 | 320.00 - | Feedline Ladder (Af) | 17 | T1 |
| | | 325.00 | | | - 1 |
| 0.6000 | 0.6000 | 300.00 - | 1-5/8" | 1 | T2 |
| | A2410000000 | 320.00 | | 2.0 | 2000 |
| 0.6000 | 0.6000 | 300.00 - | 1.5" Hybrid | 2 | T2 |
| | | 320.00 | | | |
| 0.6000 | 0.6000 | 300.00 - | 1-5/8" | 4 | T2 |
| | | 313.00 | | | |
| 0.6000 | 0.6000 | 300.00 - | 1.5" Hybrid | 5 | T2 |
| 127703221 | 271/2/2/2 | 313 00 | 12 12020 | | |
| 0.6000 | 0.6000 | 300.00 - | 1-5/8" | 7 | T2 |
| 0.700 | 0.7000 | 301.00 | #5-P04-#F853F5555 | | TO |
| 0.6000 | 0.6000 | 300.00 - | 1.5" Hybrid | 8 | T2 |
| 0.6000 | 0.6000 | 301.00 | C - C - 1 2/0 | 1.4 | T2 |
| 0.6000 | 0.6000 | 300.00 - 320.00 | Safety Line 3/8 | 14 | 12 |
| 0.6000 | 0.6000 | 300.00 | Strobe Cable | 15 | T2 |
| 0.0000 | 0.0000 | 320.00 | Strobe Cable | 13 | 12 |
| 0.6000 | 0.6000 | 300.00 - | Feedline Ladder (Af) | 17 | T2 |
| 0.0000 | 0.0000 | 320.00 | recume Eddder (Ar) | • ' | 1.2 |
| 0.6000 | 0.6000 | 300.00 - | Feedline Ladder (Af) | 18 | T2 |
| 30.00000 | 0.0000 | 313.00 | . Jedinie Eddder (711) | | |
| 0.6000 | 0.6000 | 300.00 - | Feedline Ladder (Af) | 19 | T2 |
| (T) (T) (T) (T) | .15 (Sec. 5) | 301.00 | | 10.00 | 10.7 |
| 0.6000 | 0.6000 | 280.00 - | 1-5/8" | 1 | T3 |

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

| Job | | Page |
|---------|-----------------------------------------|------------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 13 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| K_a | K_a | Feed Line | Description | Feed Line | Tower |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| Ice | No Ice | Segment Elev. | | Record No. | Section |
| 7944 200000 | Table Manipula | 300.00 | PRODUCTION OF THE | | 93333 |
| 0.600 | 0.6000 | 280.00 - | 1.5" Hybrid | 2 | T3 |
| | | 300.00 | | | |
| 0.600 | 0.6000 | 280 00 - | 1-5/8" | 4 | T3 |
| 0.600 | 0.6000 | 300.00 | 1 59 Disheid | 5 | Т3 |
| 0.600 | 0.6000 | 280.00 - 300.00 | 1.5" Hybrid | 2 | 13 |
| 0.600 | 0.6000 | 280.00 - | 1-5/8" | 7 | Т3 |
| (01,000 | 0.0000 | 300.00 | 1.0.0 | 1 | |
| 0.600 | 0.6000 | 280.00 - | 1.5" Hybrid | 8 | T3 |
| | 12/2/20/20/20/20/ | 300.00 | The Architecture | 55.00 | 2000 |
| 0.600 | 0.6000 | 280.00 - | 1-5/8" | 10 | T3 |
| 0.400 | 0.000 | 289.00 | 0.0.1.00 | | |
| 0.600 | 0.6000 | 280.00 - | Safety Line 3/8 | 14 | Т3 |
| 0.600 | 0.6000 | 300.00 280.00 - | Strobe Cable | 15 | Т3 |
| 0.000 | 0.0000 | 300.00 | Strobe Cable | 13 | 15 |
| 0.600 | 0.6000 | 280.00 - | Feedline Ladder (Af) | 17 | Т3 |
| 0.000 | 0.0000 | 300.00 | recame Eddaer (111) | | |
| 0.600 | 0.6000 | 280.00 - | Feedline Ladder (Af) | 18 | T3 |
| | | 300.00 | which is the control of the control | 1000 | |
| 0.600 | 0.6000 | 280.00 - | Feedline Ladder (Af) | 19 | T3 |
| | DATE OF THE PARTY | 300.00 | The source of th | | F10000 |
| 0.600 | 0.6000 | 260.00 - | 1-5/8" | 1 | T4 |
| 0.000 | 0.4000 | 280.00 | LOTE PROJECT | 2 | 77.4 |
| 0.600 | 0.6000 | 260.00 - 280.00 | 1.5" Hybrid | 2 | T4 |
| 0.600 | 0.6000 | 260.00 - | 1-5/8" | 4 | T4 |
| 0.000 | 0.0000 | 280.00 | 1 2/0 | | |
| 0.600 | 0.6000 | 260.00 - | 1.5" Hybrid | 5 | T4 |
| | 200000000000000000000000000000000000000 | 280.00 | 000 000 000 6 0 400 400 | | 7.513.00 |
| 0.600 | 0.6000 | 260.00 - | 1-5/8" | 7 | T4 |
| 200 | | 280.00 | | | |
| 0.600 | 0.6000 | 260.00 - | 1.5" Hybrid | 8 | T4 |
| 0.600 | 0.6000 | 280.00 260.00 - | 1-5/8" | 10 | T4 |
| 0.000 | 0.0000 | 280.00 | 1-3/6 | 10 | 1-1 |
| 0.600 | 0.6000 | 260.00 - | 1-5/8" | 12 | T4 |
| | | 277.00 | 7 × 1.00 × 1.00 | | |
| 0.600 | 0.6000 | 260.00 - | Safety Line 3/8 | 14 | T4 |
| | | 280.00 | | | |
| 0.600 | 0.6000 | 260.00 - | Strobe Cable | 15 | T4 |
| 0.700 | 0.7000 | 280.00 | E II T II TAN | 17 | 2004 |
| 0.600 | 0.6000 | 260.00 - 280.00 | Feedline Ladder (Af) | 17 | T4 |
| 0.600 | 0.6000 | 260.00 - | Feedline Ladder (Af) | 18 | T4 |
| 0.000 | 0.0000 | 280.00 | recuirie Lauder (Ar) | 10 | 1.4 |
| 0.600 | 0.6000 | 260.00 - | Feedline Ladder (Af) | 19 | T4 |
| | | 280.00 | | | |
| 0.600 | 0.6000 | 240.00 - | 1-5/8" | 1 | T5 |
| | 200000000000000000000000000000000000000 | 260.00 | | | |
| 0.600 | 0.6000 | 240.00 - | 1.5" Hybrid | 2 | T5 |
| 0.700 | 0.7000 | 260.00 | 1.7700 | | me |
| 0.600 | 0.6000 | 240.00 - | 1-5/8" | 4 | T5 |
| 0.600 | 0.6000 | 260.00 240.00 - | 1.5" Hybrid | 5 | T5 |
| 0.000 | 0.0000 | 260.00 | 1.5 Hybrid | - | 13 |
| 0.600 | 0.6000 | 240.00 - | 1-5/8" | 7 | T5 |
| | | 260.00 | | | |
| 0.600 | 0.6000 | 240.00 - | 1.5" Hybrid | 8 | T5 |
| | | 260.00 | | 6000 | |
| 0.600 | 0.6000 | 240.00 - | 1-5/8" | 10 | T5 |

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

| Job | | Page |
|---------|-----------------------------------------|------------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 14 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| Tower | Feed Line | Description | Feed Line | K_a | K_a |
|---------|------------|-----------------------|--------------------------------------------|-----------------|--------|
| Section | Record No. | | Segment Elev. | No Ice | Ice |
| me | | T 700 | 260.00 | 0.5000 | 0.700 |
| T5 | 12 | 1-5/8" | 240.00 - | 0.6000 | 0.6000 |
| Tre | 1 14 | C - C - 1 2/0 | 260.00 | 0.6000 | 0.6000 |
| T5 | 14 | Safety Line 3/8 | 240.00 - | 0.6000 | 0.6000 |
| T5 | 15 | Strobe Cable | 260.00 | 0.6000 | 0.6000 |
| 13 | 15 | Strobe Cable | 100000000000000000000000000000000000000 | 0.6000 | 0.000 |
| T5 | 17 | Feedline Ladder (Af) | 260.00 240.00 - | 0.6000 | 0.600 |
| 4.0 | | recuine Ladder (Ar) | 260.00 | 0.0000 | 0.000 |
| T5 | 18 | Feedline Ladder (Af) | | 0.6000 | 0.600 |
| • • | | recuirie Eddder (711) | 260.00 | 0.0000 | 0.000 |
| T5 | 19 | Feedline Ladder (Af) | 240.00 - | 0.6000 | 0.600 |
| | | | 260.00 | | |
| T6 | 1 | 1-5/8" | 220,00 - | 0.6000 | 0.600 |
| | 87 | | 240.00 | 4.555.00010-2-3 | |
| T6 | 2 | 1.5" Hybrid | 220.00 - | 0.6000 | 0.600 |
| | | | 240.00 | | |
| T6 | 4 | 1-5/8" | 220.00 - | 0.6000 | 0.600 |
| 50,000 | 2 | | 240.00 | 20000000 | 2000 |
| T6 | 5 | 1.5" Hybrid | 220,00 - | 0.6000 | 0.600 |
| m | _ | a way | 240.00 | 179772787878 | |
| T6 | 7 | 1-5/8" | 220.00 - | 0.6000 | 0.600 |
| 707 | | | 240.00 | 0.7000 | 0.700 |
| Т6 | 8 | 1.5" Hybrid | 220.00 - | 0.6000 | 0.600 |
| Т6 | 10 | 1.5/00 | 240.00 | 0.7000 | 0.000 |
| 16 | 10 | 1-5/8" | 220.00 - | 0.6000 | 0.600 |
| Т6 | 12 | 1-5/8" | 240.00 220.00 - | 0.6000 | 0.600 |
| | | 1-3/0 | 240.00 | 0.0000 | 0.000 |
| Т6 | 14 | Safety Line 3/8 | 220.00 - | 0.6000 | 0.600 |
| | | Surety Ellie 570 | 240.00 | 0.0000 | 0.000 |
| T6 | 15 | Strobe Cable | | 0.6000 | 0.600 |
| | | | 240.00 | | |
| T6 | 17 | Feedline Ladder (Af) | 220.00 - | 0.6000 | 0.600 |
| | 175.0 | | 240.00 | | |
| T6 | 18 | Feedline Ladder (Af) | 220.00 - | 0.6000 | 0.600 |
| | | | 240.00 | | |
| T6 | 19 | Feedline Ladder (Af) | 220.00 - | 0.6000 | 0.600 |
| 200 | , . | 2.2.2. | 240.00 | 0.0000 | 27322 |
| T7 | 1 | 1-5/8" | 200 00 - | 0.6000 | 0 600 |
| T7 | 3 | 1.00 11.4 | 220.00 | 0.6000 | 0.600 |
| 17 | 2 | 1.5" Hybrid | 200.00 - 220.00 | 0.6000 | 0.600 |
| T7 | 4 | 1-5/8" | 200.00 - | 0.6000 | 0.600 |
| 17 | | 1-3/0 | 220.00 | 0.0000 | 0.000 |
| T7 | 5 | 1.5" Hybrid | 200.00 - | 0.6000 | 0.600 |
| | | 1.5 11)0114 | 220.00 | 0.0000 | 0.000 |
| T7 | 7 | 1-5/8" | 200.00 - | 0.6000 | 0.600 |
| | | | 220.00 | 7 | |
| T7 | 8 | 1.5" Hybrid | 200.00 - | 0.6000 | 0.600 |
| | | | 220.00 | | |
| T7 | 10 | 1-5/8" | 200.00 - | 0.6000 | 0.600 |
| | V. | | 220.00 | 10000000 | |
| T7 | 12 | 1-5/8" | 200.00 - | 0.6000 | 0.600 |
| 2000 | ALC | | 220.00 | G0724124000 | |
| T7 | 14 | Safety Line 3/8 | 200.00 - | 0.6000 | 0.600 |
| rever . | | | 220.00 | 0.7000 | 0.00 |
| T7 | 15 | Strobe Cable | C-2000 00 00 00 00 00 00 00 00 00 00 00 00 | 0.6000 | 0.600 |
| - Paris | 12 | Faulling L. H | 220.00 | 0.6000 | 0.400 |
| T7 | 17 | Feedline Ladder (Af) | | 0.6000 | 0.600 |
| Т7 | 18 | Engline Laddar (A.O. | 220.00 | 0.6000 | 0.600 |
| 1/ | 181 | Feedline Ladder (Af) | 200.00 - | 0.6000 | 0.000 |

B+T Group 1717 S. Boulder Ave, Ste 300

Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 15 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | .v | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower | Feed Line | Description | Feed Line | K_a | K_a |
|---------|------------|----------------------------------------|--------------------|----------------|--------------|
| Section | Record No. | | Segment Elev. | No Ice | Ice |
| | 2.2 | 122 25 2 22 300 | 220.00 | 203222 | |
| T7 | 19 | Feedline Ladder (Af) | 200.00 - | 0.6000 | 0.6000 |
| 700 | - | 1.6/08 | 220.00 | 0.7000 | 0.6000 |
| Т8 | 1 | 1-5/8" | 180.00 - | 0.6000 | 0.6000 |
| Т8 | 2 | 1.5" Hybrid | 200.00 180.00 - | 0.6000 | 0.6000 |
| 10 | - 2 | 1.5 Hybrid | 200.00 | 0.6000 | 0.0000 |
| Т8 | 4 | 1-5/8" | 180.00 - | 0.6000 | 0.6000 |
| | 1 | 1-5/6 | 200.00 | 0.0000 | 0.0000 |
| T8 | 5 | 1.5" Hybrid | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| Т8 | 7 | 1-5/8" | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| T8 | 8 | 1.5" Hybrid | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| T8 | 10 | 1-5/8" | 180.00 - | 0.6000 | 0.6000 |
| TO | 12 | 1.5/00 | 200.00 | 0.6000 | 0.6000 |
| Т8 | 12 | 1-5/8" | 180.00 - | 0.6000 | 0.6000 |
| Т8 | 14 | Safety Line 3/8 | 200.00 180.00 - | 0.6000 | 0.6000 |
| 1.0 | 17 | Safety Line 5/8 | 200.00 | 0.0000 | 0,0000 |
| T8 | 15 | Strobe Cable | 180.00 - | 0.6000 | 0.6000 |
| 9,70 | | | 200.00 | - | |
| Т8 | 17 | Feedline Ladder (Af) | 180.00 - | 0.6000 | 0.6000 |
| | | | 200.00 | | |
| T8 | 18 | Feedline Ladder (Af) | 180.00 - | 0.6000 | 0.6000 |
| 10000 | | | 200.00 | 2 2 2 2 2 2 | |
| Т8 | 19 | Feedline Ladder (Af) | 180.00 - | 0.6000 | 0.6000 |
| Т9 | | 1.7/09 | 200.00 | 0.6000 | 0.6000 |
| 19 | 1 | 1-5/8" | 160.00 - 180.00 | 0.6000 | 0.0000 |
| Т9 | 2 | 1.5" Hybrid | 160.00 - | 0.6000 | 0.6000 |
| | - | 1.5 Hyond | 180.00 | 0.0000 | 0.0000 |
| Т9 | 4 | 1-5/8" | 160.00 - | 0.6000 | 0.6000 |
| | | | 180.00 | | |
| T9 | 5 | 1.5" Hybrid | 160.00 - | 0.6000 | 0.6000 |
| | | | 180.00 | | |
| T9 | 7 | 1-5/8" | 160.00 - | 0.6000 | 0.6000 |
| mo | | | 180.00 | | 0.4000 |
| Т9 | 8 | 1.5" Hybrid | 160.00 - | 0.6000 | 0.6000 |
| Т9 | 10 | 1-5/8" | 180.00 160.00 - | 0.6000 | 0.6000 |
| 1.2 | 10 | 1-3/6 | 180.00 | 0.0000 | 0.0000 |
| Т9 | 12 | 1-5/8" | 160.00 - | 0.6000 | 0.6000 |
| 5.00 | - | | 180.00 | 3.3333 | 1300,000,000 |
| T9 | 14 | Safety Line 3/8 | 160.00 - | 0.6000 | 0.6000 |
| 7 | 7.564.5 | 54594 12005 7 - XXXXV42,0-24173 | 180.00 | 33253866464-04 | |
| T9 | 15 | Strobe Cable | 160.00 - | 0.6000 | 0.6000 |
| 1 | | | 180.00 | | |
| Т9 | 17 | Feedline Ladder (Af) | | 0.6000 | 0.6000 |
| TO | 10 | Fradline Ladder (AG | 180.00 | 0.0000 | 0.6000 |
| Т9 | 18 | Feedline Ladder (Af) | 160.00 - 180.00 | 0.6000 | 0.0000 |
| Т9 | 19 | Feedline Ladder (Af) | 160.00 - | 0.6000 | 0.6000 |
| *2 | | r comme Eddder (A1) | 180.00 | 0.0000 | 0.0000 |
| T10 | 1 | 1-5/8" | 140.00 - | 0.6000 | 0.6000 |
| 205 | 92.0 | 16.77.77 | 160.00 | | |
| T10 | 2 | 1.5" Hybrid | 140.00 - | 0.6000 | 0.6000 |
| | 7 | .0 | 160.00 | | |
| T10 | 4 | 1-5/8" | 140.00 - | 0.6000 | 0.6000 |
| T10 | | 1 2012 1 | 160.00 | 0.0000 | 0.0000 |
| 1.101 | 5 | 1.5" Hybrid | 140.00 - | 0.6000 | 0.6000 |

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

| Job | | Page |
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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 16 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by |

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K _a No Ice | K _a Ice |
|------------------|-------------------------|----------------------|----------------------------|--------------------------|-----------------------|
| | | | 160.00 | | |
| T10 | 7 | 1-5/8" | 140.00 - 160.00 | 0.6000 | 0.6000 |
| T10 | 8 | 1.5" Hybrid | 140.00 - 160.00 | 0.6000 | 0 6000 |
| T10 | 10 | 1-5/8" | 140.00 - 160.00 | 0.6000 | 0.6000 |
| T10 | 12 | 1-5/8" | 140.00 - 160.00 | 0.6000 | 0.6000 |
| T10 | 14 | Safety Line 3/8 | 140.00 - 160.00 | 0.6000 | 0 6000 |
| T10 | 15 | Strobe Cable | 140.00 - 160.00 | 0.6000 | 0.6000 |
| T10 | 17 | Feedline Ladder (Af) | | 0.6000 | 0.6000 |
| T10 | 18 | Feedline Ladder (Af) | 140.00 - 160.00 | 0.6000 | 0.6000 |
| T10 | 19 | Feedline Ladder (Af) | 140.00 - 160.00 | 0.6000 | 0.6000 |
| T11 | 1 | 1-5/8" | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 2 | 1.5" Hybrid | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 4 | 1-5/8" | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 5 | 1.5" Hybrid | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 7 | 1-5/8" | 120.00 - 140.00 | 0 6000 | 0.6000 |
| T11 | 8 | 1.5" Hybrid | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 10 | 1-5/8" | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 12 | 1-5/8" | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 14 | Safety Line 3/8 | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 15 | Strobe Cable | 120.00 - 140.00 | 0.6000 | 0.6000 |
| TII | 17 | Feedline Ladder (Af) | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 18 | Feedline Ladder (Af) | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T11 | 19 | Feedline Ladder (Af) | 120.00 - 140.00 | 0.6000 | 0.6000 |
| T12 | 1 | 1-5/8" | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 2 | 1.5" Hybrid | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 4 | 1-5/8" | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 5 | 1.5" Hybrid | 100 00 - 120 00 | 0.6000 | 0.6000 |
| T12 | 7 | 1-5/8" | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 8 | 1.5" Hybrid | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 10 | 1-5/8" | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 12 | 1-5/8" | 100.00 - 120.00 | 0.6000 | 0.6000 |
| T12 | 14 | Safety Line 3/8 | 100.00 - | 0.6000 | 0.6000 |

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| ATS #8657 - Mt Vernon (Site# KYLEX2044) | 17 of 40 |
| | Date |
| 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Harmoni // INITI) Towers | Designed by |
| | |

| Tower | Feed Line | | | K_{α} | K_{α} |
|------------|------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Section | Record No. | | Segment Elev. | No Ice | Ice |
| | | | 120.00 | | |
| T12 | 15 | Strobe Cabl | e 100.00 - | 0.6000 | 0.600 |
| | | | 120.00 | | |
| T12 | 17 | Feedline Ladder (A) | | 0.6000 | 0.600 |
| -0.00 | 200 | | 120.00 | | |
| T12 | 18 | Feedline Ladder (A) | | 0.6000 | 0.600 |
| 11. | 3.9 | recume Eddder (71) | 120.00 | 0,0000 | 0.000 |
| T12 | 19 | Feedline Ladder (A) | | 0.6000 | 0.600 |
| 1.12 | 12 | recume Ladder (A) | 120.00 | 0.0000 | 0.000 |
| T13 | ï | 1.5/9 | " 80.00 - 100.00 | 0.6000 | 0.600 |
| T13 | 2 | 1.5" Hybri | | 0.6000 | 0.600 |
| T13 | 4 | | | | |
| 2372 (473) | | 1-5/8 | Committee of the Commit | 0.6000 | 0.600 |
| T13 | 5 7 | | 80.00 - 100.00 | 0.6000 | 0.600 |
| T13 | | 1-5/8 | | 0.6000 | 0.600 |
| T13 | 8 | | 80.00 - 100.00 | 0.6000 | 0.600 |
| T13 | 10 | 1-5/8 | | 0.6000 | 0.600 |
| T13 | 12 | 1-5/8 | | 0.6000 | 0.600 |
| T13 | 14 | Safety Line 3/ | | 0.6000 | 0.600 |
| T13 | 15 | | e 80.00 - 100.00 | 0.6000 | 0.600 |
| T13 | 17 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T13 | 18 | Feedline Ladder (A | 80.00 - 100.00 | 0.6000 | 0.600 |
| T13 | 19 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T14 | 1 | 1-5/8 | " 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 2 | 1.5" Hybri | 1 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 4 | 1-5/8 | " 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 5 7 | 1.5" Hybri | d 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 7 | 1-5/8 | " 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 8 | 1.5" Hybri | d 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 10 | 1-5/8 | " 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 12 | 1-5/8 | " 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 14 | Safety Line 3/ | 8 60.00 - 80.00 | 0.6000 | 0.600 |
| T14 | 15 | Strobe Cabl | | 0.6000 | 0.600 |
| T14 | 17 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T14 | 18 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T14 | 19 | Feedline Ladder (A | 2011 100 CO 100 | 0.6000 | 0.600 |
| T15 | 1 | 1-5/8 | | 0.6000 | 0.600 |
| T15 | 2 | 1.5" Hybri | | 0.6000 | 0.600 |
| T15 | 4 | 1-5/8 | | 0.6000 | 0.600 |
| T15 | 5 | 1.5" Hybri | | 0.6000 | 0.600 |
| T15 | 7 | 1-5/8 | THE THE RESIDENCE OF THE PARTY | 0.6000 | 0.600 |
| T15 | 8 | 1.5" Hybri | | 0.6000 | 0.600 |
| T15 | 10 | 1-5/8 | 어제 | 0.6000 | 0.600 |
| T15 | 5,450 | 1-5/8 | 100 - 100 mile - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 500 - 5 | | |
| | 12 | | | 0.6000 | 0.600 |
| T15 | 14 | Safety Line 3/ | | 0.6000 | 0.600 |
| T15 | 15 | Strobe Cabl | | 0.6000 | 0.600 |
| T15 | 17 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T15 | 18 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T15 | 19 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T16 | 1 | 1-5/8 | | 0.6000 | 0.600 |
| T16 | 2 | 1.5 Hybri | | 0.6000 | 0.600 |
| T16 | 4 | 1-5/8 | | 0.6000 | 0.600 |
| T16 | 5 7 | 1.5" Hybri | | 0.6000 | 0.600 |
| T16 | | 1-5/8 | | 0.6000 | 0.600 |
| T16 | 8 | 1.5" Hybri | | 0.6000 | 0.600 |
| T16 | 10 | 1-5/8 | " 20.00 - 40.00 | 0.6000 | 0.600 |
| T16 | 12 | 1-5/8 | " 20.00 - 40.00 | 0.6000 | 0.600 |
| T16 | 14 | Safety Line 3/ | 8 20.00 - 40.00 | 0.6000 | 0.600 |
| T16 | 15 | Strobe Cabl | | 0.6000 | 0.600 |
| T16 | 17 | Feedline Ladder (A | | 0.6000 | 0.600 |
| T16 | 18 | Feedline Ladder (A | | 0.6000 | 0.600 |
| | 2525 | | | | |
| T16 | 19 | Feedline Ladder (A | 20.00 - 40.00 | 0.6000 | 0.600 |

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 18 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Tower Section | Feed Line Record No. | Description | Feed Line Segment Elev. | K _a No Ice | K _a Ice |
|------------------|-------------------------|----------------------|----------------------------|--------------------------|-----------------------|
| T17 | 2 | 1.5" Hybrid | 10 00 - 20 00 | 0.6000 | 0.6000 |
| T17 | 4 | 1-5/8" | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 5 | 1.5" Hybrid | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 7 | 1-5/8" | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 8 | 1.5" Hybrid | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 10 | 1-5/8" | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 12 | 1-5/8" | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 14 | Safety Line 3/8 | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 15 | Strobe Cable | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 17 | Feedline Ladder (Af) | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 18 | Feedline Ladder (Af) | 10.00 - 20.00 | 0.6000 | 0.6000 |
| T17 | 19 | Feedline Ladder (Af) | 10.00 - 20.00 | 0.6000 | 0.6000 |

| | | | - | | | | |
|---|-----|---------|----|--------|----|----|-----|
| | 100 | rete | 10 | | rı | 0: | ane |
| - | 136 | I G L G | | , 44 C | | | aus |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert | Azimuth Adjustment | Placement | | C _A A _A Front | C _A A _A Side | | Weigh |
|-----------------------|-------------------|----------------|-------------------------------------|-----------------------|-----------|----------|----------------------------------------|---------------------------------------|---|-------|
| | | | ft ft ft | ٥ | fi | | ft² | ft² | | K |
| Lightning Rod 1"x10" | C | From Leg | 0.000 | 0.000 | 330.000 | No Ice | 1.000 | 1.000 | | 0.040 |
| | | 1.50 | 0.000 | | | 1/2" Ice | 2.017 | 2,017 | | 0.049 |
| | | | 5.000 | | | 1" Ice | 3.050 | 3.050 | | 0.065 |
| | | | | | | 2" Ice | 5.148 | 5.148 | | 0.116 |
| Top Beacon | В | From Leg | 0.000 | 0.000 | 330.000 | No Ice | 2.700 | 2.700 | | 0.050 |
| | | | 0.000 | | | 1/2" Ice | 3.100 | 3.100 | | 0.070 |
| | | | 1.000 | | | 1" Ice | 3.500 | 3.500 | | 0.090 |
| | | | | | | 2" Ice | 4.300 | 4.300 | | 0.130 |
| ** | | | | | | | | | | |
| Sector1(CaAa=13333.33 | A | From Leg | 4.000 | 0.000 | 325.000 | No Ice | 92.592 | 62.037 | | 0.700 |
| Sq.in)No Ice | | | 0.000 | | | 1/2" Ice | 115.740 | 77.546 | | 1.400 |
| (Carrier 1) | | | 0.000 | | | 1" Ice | 138.888 | 93.055 | | 2.100 |
| | | | | | | 2" Ice | 185.184 | 124.073 | | 3.500 |
| Sector2(CaAa=13333.33 | В | From Leg | 4.000 | 0.000 | 325.000 | No Ice | 92.592 | 62.037 | | 0.700 |
| Sq in)No Ice | | | 0.000 | | | 1/2" Ice | 115.740 | 77.546 | | 1.400 |
| (Carrier 1) | | | 0.000 | | | 1" Ice | 138.888 | 93.055 | | 2.100 |
| | | | | | | 2" Ice | 185.184 | 124.073 | | 3.500 |
| Sector3(CaAa=13333.33 | C | From Leg | 4.000 | 0.000 | 325.000 | No Ice | 92.592 | 62.037 | | 0.700 |
| Sq in)No Ice | | | 0.000 | | | 1/2" Ice | 115.740 | 77.546 | | 1.400 |
| (Carrier 1) | | | 0.000 | | | 1" Ice | 138.888 | 93.055 | | 2.100 |
| | | (4) | | | | 2" Ice | 185.184 | 124.073 | 1 | 3.500 |
| ** | | | | | | | | | | |
| Sector1(CaAa=10000 | A | From Leg | 4.000 | 0.000 | 313.000 | No Ice | 69.440 | 46.525 | | 0.700 |
| Sq.in)No Ice | | | 0.000 | | | 1/2" Ice | 86.800 | 58.156 | | 1.400 |
| (Carrier 2) | | | 0.000 | | | 1" Ice | 104.160 | 69.787 | | 2 100 |
| | | | | | | 2" Ice | 138.880 | 93.050 | | 3.500 |
| Sector2(CaAa=10000 | В | From Leg | 4.000 | 0.000 | 313.000 | No Ice | 69.440 | 46.525 | | 0.700 |
| Sq in)No Ice | | | 0.000 | | | 1/2" Ice | 86.800 | 58 156 | | 1.400 |
| (Carrier 2) | | | 0.000 | | | I" Ice | 104.160 | 69.787 | | 2.100 |
| | | | | | | 2" Ice | 138.880 | 93.050 | | 3.500 |
| Sector3(CaAa=10000 | C | From Leg | 4.000 | 0.000 | 313.000 | No Ice | 69.440 | 46 525 | | 0.700 |
| Sq in)No Ice | | | 0.000 | | | 1/2" Ice | 86.800 | 58.156 | | 1.400 |
| (Carrier 2) | | | 0.000 | | | I" Ice | 104.160 | 69.787 | | 2.100 |

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| Job | | Page |
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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 19 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Description | Face or Leg | Offset Type | Offsets: Horz Lateral Vert | Azimuth Adjustment | Placement | | C _A A _A Front | C ₄ A _{.4} Side | Weigh |
|----------------------|-------------------|------------------|-------------------------------------|-----------------------|-----------|----------|----------------------------------------|----------------------------------------|-------|
| | | | ft ft ft | • | fi | | ft² | ft² | K |
| ** | | | | | | 2" Ice | 138.880 | 93.050 | 3.500 |
| Sector1(CaAa=10000 | A | From Leg | 4.000 | 0.000 | 301.000 | No Ice | 69.440 | 46.525 | 0.700 |
| Sq.in)No Ice | | | 0.000 | | | 1/2" Ice | 86.800 | 58 156 | 1.400 |
| (Carrier 3) | | | 0.000 | | | I" Ice | 104 160 | 69.787 | 2 100 |
| A STATISTICS OF A | | | | | | 2" Ice | 138 880 | 93.050 | 3.500 |
| Sector2(CaAa=10000 | В | From Leg | 4.000 | 0.000 | 301.000 | No Ice | 69.440 | 46.525 | 0.700 |
| Sq.in)No Ice | | | 0.000 | | 501.000 | 1/2" Ice | 86.800 | 58.156 | 1.400 |
| (Carrier 3) | | | 0.000 | | | 1" Ice | 104.160 | 69.787 | 2.100 |
| Warner State N | | | | | | 2" Ice | 138.880 | 93.050 | 3.500 |
| Sector3(CaAa=10000 | C | From Leg | 4 000 | 0.000 | 301.000 | No Ice | 69 440 | 46 525 | 0.700 |
| Sq.in)No Ice | | 5 (15 (5) (17) S | 0.000 | | | 1/2" Ice | 86.800 | 58.156 | 1.400 |
| (Carrier 3) | | | 0.000 | | | 1" Ice | 104.160 | 69.787 | 2.100 |
| | | | | | | 2" Ice | 138.880 | 93 050 | 3.500 |
| ** | | | | | | | | | |
| 4 1/2" OD Dish Mount | C | From Leg | 0.500 | 0.000 | 289.000 | No Ice | 1.646 | 1.646 | 0.057 |
| (Carrier 4) | | | 0.000 | | | 1/2" Ice | 2.207 | 2.207 | 0.074 |
| | | | 0.000 | | | I" Ice | 2.543 | 2 543 | 0.094 |
| | | | | | | 2" Ice | 3.241 | 3.241 | 0.148 |
| 4 1/2" OD Dish Mount | В | From Leg | 0.500 | 0.000 | 289.000 | No Ice | 1.646 | 1.646 | 0.057 |
| (Carrier 4) | | | 0.000 | | | 1/2" Ice | 2.207 | 2.207 | 0.074 |
| | | | 0.000 | | | 1" Ice | 2.543 | 2.543 | 0.094 |
| | | | | | | 2" Ice | 3.241 | 3.241 | 0.148 |
| ** | | | | | | | | | |
| 4 1/2" OD Dish Mount | C | From Leg | 0.500 | 0.000 | 277.000 | No Ice | 1.646 | 1.646 | 0.057 |
| (Carrier 5) | | | 0.000 | | | 1/2" Ice | 2 207 | 2.207 | 0.074 |
| | | | 0.000 | | | 1" Ice | 2.543 | 2.543 | 0.094 |
| | | | | | | 2" Ice | 3.241 | 3.241 | 0.148 |
| 4 1/2" OD Dish Mount | В | From Leg | 0.500 | 0.000 | 277.000 | No Ice | 1.646 | 1.646 | 0.057 |
| (Carrier 5) | | | 0.000 | | | 1/2" Ice | 2.207 | 2.207 | 0.074 |
| | | | 0.000 | | | 1" Ice | 2.543 | 2.543 | 0.094 |
| | | | | | | 2" Ice | 3.241 | 3.241 | 0.148 |

| - | | | | |
|---|----|---|---|---|
| п | ie | h | - | - |
| | | | - | |

| Description | Face or Leg | Dish Type | Offset Type | Offsets: Horz Lateral Vert | Azimuth Adjustment | 3 dB Beam Width | Elevation | Outside Diameter | | Aperture Area | Weigh |
|-------------|-------------------|----------------|----------------|-------------------------------------|-----------------------|-----------------------|-----------|---------------------|----------|------------------|-------|
| | | | | ft | 0 | 0 | ft | ft | | ft² | K |
| 6' MW Dish | C | Paraboloid w/o | From | 1.000 | 0.000 | | 289 000 | 6.000 | No Ice | 28.270 | 0.143 |
| (Carrier 4) | | Radome | Leg | 0.000 | | | | | 1/2" Ice | 29.050 | 0.292 |
| | | | 0000 | 0.000 | | | | | 1" Ice | 29.831 | 0.441 |
| | | | | | | | | | 2" Ice | 31.392 | 0.740 |
| 6' MW Dish | В | Paraboloid w/o | From | 1.000 | 0.000 | | 289.000 | 6.000 | No Ice | 28.270 | 0.143 |
| (Carrier 4) | | Radome | Leg | 0.000 | | | | | 1/2" Ice | 29.050 | 0.292 |
| | | | | 0.000 | | | | | 1" Ice | 29.831 | 0.441 |
| | | | | | | | | | 2" Ice | 31.392 | 0.740 |
| ** | | | | | | | | | | | |
| 6' MW Dish | C | Paraboloid w/o | From | 1.000 | 0.000 | | 277.000 | 6.000 | No Ice | 28.270 | 0.143 |

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

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 20 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | A VENEZA COLOR MANAGEMENTO | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Description | Face or Leg | Dish Type | Offset Type | Offsets: Horz Lateral Vert | Azimuth Adjustment | 3 dB Beam Width | Elevation | Outside Diameter | | Aperture Area | Weight |
|-------------|-------------------|----------------|----------------|-------------------------------------|-----------------------|-----------------------|-----------|---------------------|----------|------------------|--------|
| | | | | ft | 0 | 0 | ft | ft | | ft | K |
| (Carrier 5) | | Radome | Leg | 0.000 | | | | | 1/2" Ice | 29.050 | 0.292 |
| | | | | 0.000 | | | | | 1" Ice | 29.831 | 0.441 |
| | | | | | | | | | 2" Ice | 31.392 | 0.740 |
| 6' MW Dish | В | Paraboloid w/o | From | 1.000 | 0.000 | | 277.000 | 6.000 | No Ice | 28.270 | 0.143 |
| (Carrier 5) | | Radome | Leg | 0.000 | | | | | 1/2" Ice | 29.050 | 0.292 |
| | | | | 0.000 | | | | | 1" Ice | 29.831 | 0.441 |
| | | | | | | | | | 2" Ice | 31.392 | 0.740 |
| ** | | | | | | | | | | | |

Load Combinations

| Comb. | De | escription |
|--------|--------------------------------------------|------------|
| No. | 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 6 | 0.9 Dead+1.0 Wind 30 deg - No Ice | |
| 0 | 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 | |
| | 0.9 Dead+1.0 Wind 90 deg - No Ice | |
| 10 | 1.2 Dead+1.0 Wind 120 deg - No Ice | |
| | 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 | |

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| Job | | Page |
|---------|-----------------------------------------|------------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 21 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| Comb. | | Description | |
|-------|-----------------------------|-------------|--|
| No. | | | |
| 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 | Axial | Major Axis Moment | Minor Axis Moment |
|----------------|-----------------|-------------------|--------------------|--------------|----------|----------------------|----------------------|
| | 1400 | 2.6 | | Comb. | K | kip-ft | kip-fi |
| T1 | 330 - 320 | Leg | Max Tension | 15 | 8.206 | 1.132 | -0.004 |
| | | | Max. Compression | 18 | -9.850 | 0.157 | 0.006 |
| | | | Max. Mx | 2 | -9.845 | -1.176 | 0.004 |
| | | | Max. My | 4 | -1.070 | 0.004 | 0.613 |
| | | | Max. Vy | 2 | -2.673 | 0.160 | -0.004 |
| | | | Max Vx | 4 | -2.152 | 0.001 | -0.082 |
| | | Diagonal | Max Tension | 8 | 3.570 | 0.000 | 0.000 |
| | | | Max Compression | 6 | -3.240 | 0.000 | 0.000 |
| | | | Max. Mx | 2 | -0.831 | 0.045 | -0.002 |
| | | | Max. My | 20 | -3.210 | -0.002 | 0.031 |
| | | | Max. Vy | 35 | 0.018 | 0.013 | -0.002 |
| | | | Max. Vx | 20 | -0.010 | 0.000 | 0.000 |
| | | Top Girt | Max Tension | 14 | 1.853 | 0.000 | 0.000 |
| | | Top Gill | Max. Compression | 2 | -1.839 | 0.000 | 0.000 |
| | | | Max. Mx | 35 | -0.270 | -0.023 | 0.000 |
| | | | Max My | 38 | 0.041 | 0.000 | 0.000 |
| | | | Max. Vy | 35 | 0.024 | 0.000 | 0.000 |
| | | | Max. Vx | 38 | -0.001 | 0.000 | 0.000 |
| T2 | 320 - 300 | Leg | Max Tension | 15 | 46.214 | 1.493 | -0.018 |
| 0.00 | 520 500 | 200 | Max. Compression | 2 | -52.105 | 1.690 | -0.017 |
| | | | Max Mx | 2 | -46.767 | -2.370 | 0.025 |
| | | | Max. My | 4 | -3.531 | -0.008 | 1.376 |
| | | | Max. Vy | 2 | -7.385 | 1.690 | -0.017 |
| | | | Max Vx | 16 | -3.520 | -0.032 | 0.940 |
| | | Diagonal | Max Tension | 24 | 5.404 | 0.000 | 0.000 |
| | | Diagonal | Max Compression | 20 | -4.919 | 0.000 | 0.000 |
| | | | Max. Mx | 2 | -0.502 | 0.024 | -0.002 |
| | | | Max. My | 2 | -4.197 | -0.019 | -0.002 |
| | | | Max Vy | 34 | 0.024 | 0.021 | -0.002 |
| | | | Max. Vx | 2 | 0.004 | 0.000 | 0.000 |
| Т3 | 300 - 280 | Leg | Max Tension | 15 | 97.423 | 2.511 | -0.020 |
| 13 | 300 - 200 | Leg | Max Compression | 2 | -107.292 | 0.883 | -0.020 |
| | | | Max Mx | 2 | -52.133 | 5.319 | -0.059 |
| ì | | | Max. My | 16 | -3.458 | -0.057 | 2.700 |
| | | | Max. Vy | 2 | -8.459 | 0.883 | -0.003 |
| | | | Max. Vx | 4 | 3.882 | 0.042 | -0.476 |
| | | Diagonal | Max Tension | 20 | 7.619 | 0.000 | 0.000 |
| T4 | | Diagonal | Max Compression | 20 | -7.626 | 0.000 | 0.000 |
| | | | Max. Mx | 2 | 1.449 | 0.033 | -0.002 |
| | | | | 20 | -7.599 | -0.002 | 0.002 |
| | | | Max. My | 34 | 0.029 | 0.027 | -0.003 |
| | | | Max. Vy Max. Vx | 20 | -0.007 | 0.000 | 0.000 |
| | 290 260 | Lan | | 7 | | 3.190 | 0.000 |
| 1.4 | 280 - 260 | Leg | Max Tension | | 146.742 | | |
| | | | Max. Compression | 2 | -160.273 | 0.859 | 0.002 |
| | | | Max. Mx | 2 | -107.309 | 5.081 | -0.031 |
| | | | Max. My | 4 | -5.969 | 0.130 | -2.419 |

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 22 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axi Moment |
|----------------|-----------------|-------------------|------------------|--------------|----------|----------------------|---------------------|
| | | | | Comb. | K | kip-ft | kip-ft |
| | | | Max Vy | 2 | -10.053 | 0.859 | 0.002 |
| | | | Max. Vx | 24 | -4.239 | 0.020 | 0.473 |
| | | Diagonal | Max Tension | 20 | 8.466 | 0.000 | 0.000 |
| | | | Max. Compression | 20 | -8.201 | 0.000 | 0.000 |
| | | | Max Mx | 32 | 0.409 | 0.040 | 0.004 |
| | | | Max. My | 20 | -8.161 | -0.006 | 0.018 |
| | | | Max. Vy | 32 | 0.038 | 0.040 | 0.004 |
| | | | Max Vx | 20 | -0.004 | 0.000 | 0.000 |
| T5 | 260 - 240 | Leg | Max Tension | 7 | 190.805 | 3.456 | 0.149 |
| | | 1.000 | Max Compression | 2 | -207.960 | 0.872 | 0.005 |
| | | | Max. Mx | 2 | -160.291 | 5.857 | -0.000 |
| | | | Max. My | 24 | -10 975 | 0.246 | 2.595 |
| | | | Max. Vy | 18 | -10.767 | 0.873 | 0.037 |
| | | | Max Vx | 24 | -4.408 | 0.025 | 0.419 |
| | | Diagonal | Max Tension | 8 | 8.538 | 0.000 | 0.000 |
| | | Diagonal | Max. Compression | 8 | -8.850 | 0.000 | 0.000 |
| | | | Max. Mx | 36 | 1.390 | 0.061 | -0.004 |
| | | | Max. My | 20 | -8 787 | -0.014 | 0.018 |
| | | | Max. Vy | 32 | 0.052 | 0.060 | 0.006 |
| | | | Max. Vx | 20 | -0.004 | 0.000 | 0.000 |
| T6 | 240 - 220 | Lag | | 7 | | 3.745 | 0.127 |
| 10 | 240 - 220 | Leg | Max Tension | | 231.125 | | 0.008 |
| | | | Max Compression | 2 | -252 289 | 0.953 | |
| | | | Max. Mx | 18 | -207.568 | 6.230 | 0.293 |
| | | | Max. My | 24 | -15.018 | 0.218 | 2.626 |
| | | | Max. Vy | 18 | -11.648 | 0.958 | 0.039 |
| | | 14400000000 | Max. Vx | 24 | -4.633 | 0.026 | 0.520 |
| | | Diagonal | Max Tension | 8 | 8.801 | 0.000 | 0.000 |
| | | | Max. Compression | 8 | -8.948 | 0.000 | 0.000 |
| | | | Max. Mx | 32 | 0.446 | 0.076 | 0.007 |
| | | | Max. My | 22 | -7.714 | 0.009 | 0.016 |
| | | | Max. Vy | 32 | 0.058 | 0.076 | 0.007 |
| | | | Max Vx | 22 | -0.003 | 0.000 | 0.000 |
| T7 | 220 - 200 | Leg | Max Tension | 7 | 269.312 | 4.230 | 0.118 |
| | | | Max. Compression | 18 | -295.442 | 0.940 | 0.029 |
| | | | Max. Mx | 18 | -252.217 | 6.755 | 0.252 |
| | | | Max. My | 24 | -18 524 | 0.202 | 2.839 |
| | | | Max. Vy | 18 | -12.787 | 0.940 | 0.029 |
| | | | Max. Vx | 24 | -4.964 | 0.022 | 0.471 |
| | | Diagonal | Max Tension | 8 | 9.401 | 0.000 | 0.000 |
| | | | Max. Compression | 8 | -9.356 | 0.000 | 0.000 |
| | | | Max. Mx | 36 | 1.616 | 0.107 | -0.009 |
| | | | Max. My | 22 | -8 140 | 0.013 | 0.017 |
| | | | Max. Vy | 32 | 0.075 | 0.106 | 0.010 |
| | | | Max. Vx | 38 | -0.003 | 0.000 | 0.000 |
| T8 | 200 - 180 | Leg | Max Tension | 7 | 306.454 | 5.265 | 0.119 |
| 1.0 | 200 - 100 | Leg | Max Compression | 18 | -338.254 | 0.215 | 0.011 |
| | | | Max. Mx | 18 | -295.468 | 7.313 | 0.211 |
| | | | | 24 | -21.818 | 0.190 | 2.957 |
| | Ī | | Max. My | | -14.148 | 0.215 | 0.011 |
| | | | Max. Vy | 18 | | | |
| | | D | Max. Vx | 24 | -5.359 | 0.006 | 0.206 |
| | | Diagonal | Max Tension | 8 | 10.233 | 0.000 | 0.000 |
| | | | Max. Compression | 8 | -9.937 | 0.000 | 0.000 |
| | | | Max. Mx | 38 | 0.561 | 0.128 | -0.012 |
| | | | Max. My | 22 | -9.284 | 0.025 | 0.017 |
| | | | Max. Vy | 38 | 0.082 | 0.128 | -0.012 |
| | | | Max. Vx | 38 | 0.003 | 0.000 | 0.000 |
| T9 | 180 - 160 | Leg | Max Tension | 7 | 342.696 | 4.931 | 0.088 |
| | | | Max. Compression | 18 | -380.536 | 1.275 | 0.039 |
| | | | Max. Mx | 18 | -338.278 | 7.288 | 0.170 |
| | | | Max. My | 24 | -24.942 | 0.163 | 2.890 |
| | | | Max. Vy | 18 | -15.545 | 1.275 | 0.039 |

| Job | NATIONAL PROPERTY OF THE PROPE | Page |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 23 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | 4 - CONTROL - CA - CA - CONTROL - CO | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axis Moment |
|----------------|-----------------|-------------------|-----------------------|--------------|-------------------|----------------------|----------------------|
| | | - Viti | | Comb. | K | kip-ft | kip-ft |
| | | | Max. Vx | 24 | -5.806 | 0.026 | 0.754 |
| | | Diagonal | Max Tension | 8 | 10.790 | 0.000 | 0.000 |
| | | | Max. Compression | 8 | -10.562 | 0.000 | 0.000 |
| | | | Max. Mx | 38 | 0.559 | 0.152 | -0.014 |
| | | | Max. My | 22 | -9.820 | 0.032 | 0.018 |
| | | | Max. Vy | 38 | 0.089 | 0.152 | -0.014 |
| 77.1.0 | 177 110 | 14/03/7/ | Max. Vx | 38 | 0.003 | 0.000 | 0.000 |
| T10 | 160 - 140 | Leg | Max Tension | 7 | 378.400 | 5.509 | 0.076 |
| | | | Max Compression | 18 | -423 228 | 0.930 | 0.061 |
| | | | Max. Mx | 18 | -380.566 | 9.016 | 0.178 |
| | | | Max. My | 24 | -27.876 | 0.176 | 3.660 0.061 |
| | | | Max Vy Max Vx | 18 24 | -16.344 | -0.026 | 1.284 |
| | | Diagonal | Max Tension | 10 | -6.710 11.646 | 0.000 | 0.000 |
| | | Diagonal | Max Compression | 8 | -11.601 | 0.000 | 0.000 |
| | | | Max Mx | 36 | 0.513 | 0.188 | 0.000 |
| | | | Max. My | 22 | -10.806 | 0.057 | 0.024 |
| | | | Max. Vy | 36 | 0.104 | 0.188 | 0.018 |
| | | | Max. Vx | 38 | 0.004 | 0.000 | 0.000 |
| T11 | 140 - 120 | Leg | Max Tension | 7 | 413.504 | 7.238 | 0.087 |
| (5.5.5 | 140 120 | 205 | Max Compression | 18 | -465 686 | -0.671 | 0.035 |
| | | | Max. Mx | 18 | -465.656 | -9.320 | -0.084 |
| | | | Max. My | 24 | -31.045 | 0.127 | 4.642 |
| | | | Max. Vy | 18 | -17.284 | -0.671 | 0.035 |
| | | | Max Vx | 24 | -6.884 | -0.061 | 0.645 |
| | | Diagonal | Max Tension | 9 | 13.222 | 0.000 | 0.000 |
| | | | Max. Compression | 10 | -13.688 | 0.000 | 0.000 |
| | | | Max. Mx | 36 | 1.594 | 0.293 | 0.000 |
| | | | Max. My | 31 | -0.369 | 0.000 | -0.007 |
| | | | Max. Vy | 36 | 0.108 | 0.000 | 0.000 |
| | | | Max Vx | 31 | 0.003 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 7.879 | 0.000 | 0.000 |
| | | | Max. Compression | 18 | -7.879 | -0.058 | 0.000 |
| | | | Max. Mx | 26 | -0.990 | -0.191 | 0.004 |
| | | | Max. My | 6 | 4.014 | -0.050 | 0.005 |
| | | | Max. Vy | 33 | 0.100 | -0.191 | 0.003 |
| | | | Max. Vx | 35 | -0.002 | -0.191 | 0.004 |
| | | Inner Bracing | Max Tension | 25 | 0.001 | 0.000 | 0.000 |
| | | | Max. Compression | 37 | -0.011 | 0.000 | 0.000 |
| | | | Max. Mx | 26 | -0.010 | -0.130 | 0.000 |
| | | | Max. My | 18 | -0.003 | 0.000 | -0.000 |
| | | | Max. Vy | 26 | -0.054 | 0.000 | 0.000 |
| 771.0 | 120 100 | ¥ | Max. Vx | 18 | 0.000 | 0.000 | 0.000 |
| T12 | 120 - 100 | Leg | Max Tension | 7 | 447.305 | 6.921 | 0.068 |
| | | | Max Compression | 18 | -506.967 | 0.243 | 0.054 |
| | | | Max. Mx | 18 | -506.936 | -8.951 | -0.051 |
| | | | Max. My | 24 | -34.280 | 0.073 | 4.091 0.054 |
| | | | Max. Vy | 18 24 | -18.374 -7.129 | 0.243 | 1.231 |
| | | Diagonal | Max Vx Max Tension | 9 | 13.471 | 0.000 | 0.000 |
| | | Diagonal | Max Compression | 10 | -13.732 | 0.000 | 0.000 |
| | | | Max. Compression | 36 | 1.575 | 0.331 | 0.000 |
| | | | Max. My | 31 | -0.389 | 0.000 | -0.008 |
| | | | Max. Vy | 36 | -0.115 | 0.000 | 0.000 |
| | | | Max. Vx | 31 | -0.113 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 8.598 | 0.000 | 0.000 |
| | | Horizontai | Max Compression | 18 | -8.598 | -0.077 | 0.000 |
| | | | Max. Mx | 31 | 0.492 | -0.242 | 0.005 |
| | | | Max. My | 6 | 4.374 | -0.069 | 0.006 |
| | | | Max. Vy | 31 | -0.118 | -0.242 | 0.005 |
| | | | Max. Vx | 35 | -0.003 | -0.242 | 0.006 |

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 24 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by |

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axi Moment |
|----------------|-----------------|-------------------|------------------|--------------|----------|----------------------|---------------------|
| | | | | Comb. | K | kip-ft | kip-ft |
| | | Inner Bracing | Max Tension | 23 | 0.000 | 0.000 | 0.000 |
| | | | Max Compression | 37 | -0.012 | 0.000 | 0.000 |
| | | | Max. Mx | 26 | -0.011 | -0.148 | 0.000 |
| | | | Max. My | 18 | -0.003 | 0.000 | -0.000 |
| | | | Max. Vy | 26 | -0.057 | 0.000 | 0.000 |
| | | | Max. Vx | 18 | 0.000 | 0.000 | 0.000 |
| T13 | 100 - 80 | Leg | Max Tension | 7 | 480.364 | 8.207 | 0.072 |
| | | | Max Compression | 18 | -548.309 | -0.831 | 0.042 |
| | | | Max Mx | 18 | -548.275 | -10.627 | -0.051 |
| | | | Max_My | 24 | -37 494 | 0.081 | 4.798 |
| | | | Max Vy | 18 | -19.577 | -0.831 | 0.042 |
| | | 5200 3 | Max Vx | 24 | -7 438 | -0.082 | 0.809 |
| | | Diagonal | Max Tension | 9 | 14.255 | 0.000 | 0.000 |
| | | | Max. Compression | 10 | -14.387 | 0.000 | 0.000 |
| | | | Max. Mx | 36 | 1.647 | 0.431 | 0.000 |
| | | | Max_My | 31 | -0.390 | 0.000 | -0.010 |
| | | | Max. Vy | 36 | 0.141 | 0.000 | 0.000 |
| | | | Max Vx | 31 | 0.003 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 9.311 | 0.000 | 0.000 |
| | | | Max Compression | 18 | -9.311 | -0.111 | 0.000 |
| | | | Max Mx | 31 | 0.569 | -0.323 | 0.007 |
| | | | Max. My | 6 | 4.733 | -0.102 | 0.009 |
| | | | Max. Vy | 31 | -0.149 | -0.323 | 0.007 |
| | | | Max. Vx | 35 | -0.003 | -0.323 | 0.007 |
| | | Inner Bracing | Max Tension | 1 | 0.000 | 0.000 | 0.000 |
| | | | Max Compression | 37 | -0.014 | 0.000 | 0.000 |
| | | | Max. Mx | 26 | -0.013 | -0.167 | 0.000 |
| | | | Max_My | 18 | -0.003 | 0.000 | -0.000 |
| | | | Max. Vy | 26 | 0.060 | 0.000 | 0.000 |
| | | | Max. Vx | 18 7 | 0.000 | 0.000 | 0.000 |
| T14 | 80 - 60 | Leg | Max. Vy | | 512.731 | 7.934 | 0.060 |
| | | | Max Compression | 18 | -589 149 | 0.065 | 0.047 |
| | | | Max_Mx | 18 | -589.115 | -10.355 | -0.035 |
| | | | Max. My | 24 | -41.035 | 0.084 | 4.532 |
| | | | Max. Vy | 18 | -20.824 | 0.065 | 0.047 |
| | | | Max Vx | 24 | -7.716 | -0.067 | 1.126 |
| | | Diagonal | Max Tension | 9 | 14.681 | 0.000 | 0.000 |
| | | | Max Compression | 8 | -14.880 | 0.000 | 0.000 |
| | | | Max. Mx | 36 | 1.730 | 0.477 | 0.000 |
| | | | Max My | 31 | -0.327 | 0.000 | -0.011 |
| | | | Max. Vy | 36 | -0.148 | 0.000 | 0.000 |
| | | | Max. Vx | 31 | 0.003 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 10.020 | 0.000 | 0.000 |
| | | | Max. Compression | 18 | -10.020 | -0.127 | 0.001 |
| | | | Max Mx | 31 | 0.649 | -0.358 | 0.008 |
| | | | Max. My | 6 | 5.090 | -0.116 | 0.009 |
| | | | Max. Vy | 31 | -0.155 | -0.358 | 0.008 |
| | | | Max. Vx | 35 | -0.003 | -0.358 | 0.008 |
| | | Inner Bracing | Max Tension | 1 | 0.000 | 0.000 | 0.000 |
| | | | Max. Compression | 37 | -0.014 | 0.000 | 0.000 |
| | | | Max. Mx | 26 | -0.013 | -0.185 | 0.000 |
| | | | Max. My | 18 | -0.004 | 0.000 | -0.000 |
| | | | Max. Vy | 26 | 0.063 | 0.000 | 0.000 |
| | | | Max. Vx | 18 | -0.000 | 0.000 | 0.000 |
| T15 | 60 - 40 | Leg | Max Tension | 7 | 544.578 | 9.047 | 0.060 |
| | | | Max. Compression | 18 | -629.939 | -0.847 | 0.035 |
| | | | Max. Mx | 18 | -629.901 | -11.844 | -0.037 |
| | | | Max My | 24 | -44.583 | 0.124 | 4.988 |
| | | | Max. Vy | 18 | -21.976 | -0.847 | 0.035 |
| | | | Max. Vx | 24 | -7.945 | -0.067 | 0.753 |
| | | Diagonal | Max Tension | 9 | 15.340 | 0.000 | 0.000 |

| Job | | Page |
|---------|-----------------------------------------|------------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 25 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| Section No. | Elevation ft | Component Type | Condition | Gov. Load | Axial K | Major Axis Moment | Minor Axi Moment |
|----------------|-----------------|-------------------|--------------------|--------------|------------------|----------------------|---------------------|
| | | | May Camana | Comb. | | kip-ft | kip-ft |
| | | | Max Compression | 8 36 | -15.666 1.976 | 0.000 0.521 | 0.000 |
| | | | Max. Mx Max. Mv | 31 | -0.127 | 0.000 | -0.012 |
| | | | Max. Vy | 36 | -0.153 | 0.000 | 0.000 |
| | | | Max. Vx | 31 | 0.004 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 10.724 | 0.000 | 0.000 |
| | | Horizontai | Max Compression | 18 | -10.724 | -0.144 | 0.001 |
| | | | Max. Mx | 33 | -2 190 | -0.392 | 0.009 |
| | | | Max. My | 29 | 2.215 | -0.392 | 0.009 |
| | | | Max. Vy | 35 | -0.160 | -0.391 | 0.008 |
| | | | Max. Vx | 35 | -0.004 | -0.391 | 0.008 |
| | | Inner Bracing | Max Tension | 1 | 0.000 | 0.000 | 0.000 |
| | | | Max Compression | 37 | -0.015 | 0.000 | 0.000 |
| | | | Max. Mx. | 26 | -0.014 | -0.202 | 0.000 |
| | | | Max My | 18 | -0.005 | 0.000 | -0.000 |
| | | | Max. Vy | 26 | 0.064 | 0.000 | 0.000 |
| | | | Max. Vx | 18 | 0.000 | 0.000 | 0.000 |
| T16 | 40 - 20 | Leg | Max Tension | 7 | 575.557 | 8.389 | 0.047 |
| | | | Max Compression | 18 | -670.024 | 0.502 | 0.033 |
| | | | Max. Mx | 18 | -669.986 | -11.011 | -0.029 |
| | | | Max. My | 24 | -48.282 | 0.158 | 4.730 |
| | | | Max. Vy | 18 | -23.007 | 0.502 | 0.033 |
| | | *** | Max Vx | 24 | -8.066 | -0.016 | 1.213 |
| | | Diagonal | Max Tension | 9 | 15.560 | 0.000 | 0.000 |
| | | | Max Compression | 8 | -15.992 | 0.000 | 0.000 |
| | | | Max. Mx | 36 | 2.358 | 0.558 | 0.000 |
| | | | Max. My | 31 36 | 0.302 | 0.000 | -0.013 0.000 |
| | | | Max. Vy Max. Vx | 31 | -0.004 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 11.422 | 0.000 | 0.000 |
| | | Horizontai | Max Compression | 18 | -11.422 | -0.163 | 0.002 |
| | | | Max Mx | 27 | 0.908 | -0.430 | 0.002 |
| | | | Max. My | 29 | 2.387 | -0.430 | 0.010 |
| | | | Max. Vy | 31 | -0.163 | -0.415 | 0.008 |
| | | | Max. Vx | 31 | -0.004 | -0.415 | 0.009 |
| | | Inner Bracing | Max Tension | 1 | 0.000 | 0.000 | 0.000 |
| | | | Max. Compression | 37 | -0.014 | 0.000 | 0.000 |
| | | | Max. Mx | 31 | -0.013 | -0.215 | 0.000 |
| | | | Max. My | 18 | -0.006 | 0.000 | -0.000 |
| | | | Max. Vy | 31 | 0.065 | 0.000 | 0.000 |
| | | | Max. Vx | 18 | 0.000 | 0.000 | 0.000 |
| T17 | 20 - 0 | Leg | Max Tension | 7 | 605.385 | 9.192 | 0.055 |
| | | | Max. Compression | 18 | -709.666 | 0.000 | -0.000 |
| | | | Max. Mx | 18 | -670.065 | 12.014 | 0.094 |
| | | | Max. My | 24 | -52.006 | 0.229 | 5.249 |
| | | | Max. Vy | 18 | -23.824 | 0.000 | -0.000 |
| | | | Max. Vx | 24 | -8.067 | 0.229 | 5.249 |
| | | Diagonal | Max Tension | 9 | 15.936 | 0.000 | 0.000 |
| | | Ü | Max. Compression | 8 | -16.469 | 0.000 | 0.000 |
| | | | Max. Mx | 31 | 3.330 | 0.648 | 0.000 |
| | | | Max. My | 31 | 1.426 | 0.000 | -0.015 |
| | | | Max. Vy | 31 | -0.173 | 0.000 | 0.000 |
| | | Harimont | Max. Vx | 31 | 0.004 | 0.000 | 0.000 |
| | | Horizontal | Max Tension | 18 | 12.108 | 0.000 | 0.000 |
| | | | Max Compression | 18 | -12.108 | -0.224 | 0.003 |
| | | | Max. Mx | 35 | -0.921 | -0.549 | 0.012 |
| | | | Max. My | 29 | 2.563 | -0.547 | 0.014 |
| | | | Max. Vy | 35 | 0.187 | -0.549 | 0.012 |
| | | | Max. Vx | 29 | 0.004 | -0.547 | 0.014 |
| | | Inner Bracing | Max Tension | 1 | 0.000 | 0.000 | 0.000 |

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

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 26 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Component | Condition | Gov. Load | Axial | Major Axis Moment | Minor Axis Moment |
|----------------|-----------|-----------|-----------|--------------|--------|----------------------|----------------------|
| NO. | ji | Type | | Comb. | K | kip-ft | kip-ft |
| | | | Max. Mx | 35 | -0.015 | -0.215 | 0.000 |
| | | | Max. My | 35 | -0.015 | 0.000 | -0.000 |
| | | | Max Vy | 35 | -0.061 | 0.000 | 0.000 |
| | | | Max Vx | 35 | -0.000 | 0.000 | 0.000 |

Maximum Reactions

| Location | Condition | Gov. Load Comb. | Vertical K | Horizontal, X K | Horizontal, Z K |
|----------|---------------------|-----------------------|---------------|--------------------|--------------------|
| Leg C | Max Vert | 18 | 708.160 | 45.060 | -25.922 |
| | Max. H _x | 18 | 708.160 | 45.060 | -25.922 |
| | Max. H. | 7 | -603.862 | -40.147 | 23 032 |
| | Min. Vert | 7 | -603.862 | -40.147 | 23.032 |
| | Min. H _x | 7 | -603.862 | -40.147 | 23.032 |
| | Min. Hz | 18 | 708.160 | 45.060 | -25.922 |
| Leg B | Max. Vert | 10 | 704.836 | -45.247 | -25.308 |
| | Max. H _x | 23 | -601.523 | 40.378 | 22.352 |
| | Max. H. | 23 | -601.523 | 40.378 | 22.352 |
| | Min. Vert | 23 | -601.523 | 40.378 | 22.352 |
| | Min. H _s | 10 | 704 836 | -45.247 | -25.308 |
| | Min. H. | 10 | 704.836 | -45.247 | -25.308 |
| Leg A | Max Vert | 2 | 701.696 | -0.244 | 51.404 |
| 070 | Max H _x | 21 | 44.217 | 6.553 | 2.300 |
| | Max. H ₂ | 2 | 701.696 | -0.244 | 51.404 |
| | Min. Vert | 15 | -580.689 | 0.269 | -44.655 |
| | Min. H _s | 9 | 44.217 | -6.560 | 2.300 |
| | Min. Hz | 15 | -580.689 | 0.269 | -44.655 |

Tower Mast Reaction Summary

| Load Combination | Vertical | Shear, | Shear _z | Overturning Moment, M. | Overturning Moment, M. | Torque |
|---------------------------------------|----------|--------|--------------------|---------------------------|---------------------------|---------|
| | K | K | K | kip-ft | kip-ft | kip-ft |
| Dead Only | 97.794 | -0.000 | 0.000 | 7.150 | 6.585 | -0.000 |
| 1.2 Dead+1.0 Wind 0 deg - No | 117.352 | 0.000 | -85.364 | -16353.571 | 8.025 | -12.740 |
| Ice | | | | | | |
| 0.9 Dead+1.0 Wind 0 deg - No | 88.014 | 0.000 | -85.361 | -16315.493 | 6.021 | -12.720 |
| Ice | | | | | | |
| 1.2 Dead+1.0 Wind 30 deg - No | 117.352 | 41.675 | -69.356 | -13332.952 | -8161.596 | 16.449 |
| Ice | | | | | | 1 |
| 0.9 Dead+1.0 Wind 30 deg - No | 88.014 | 41.674 | -69 354 | -13302.254 | -8143.347 | 16.446 |
| Ice | | | | | | |
| 1.2 Dead+1.0 Wind 60 deg - No | 117.352 | 69.872 | -40.006 | -7757 533 | -13608.883 | 5.494 |
| Ice | | | | | | |
| 0.9 Dead+1.0 Wind 60 deg - No | 88.014 | 69.870 | -40.005 | -7740.544 | -13577.203 | 5.471 |
| Ice | | | | | | |
| 1.2 Dead+1.0 Wind 90 deg - No | 117.352 | 81 897 | -1.309 | -366.057 | -15834.390 | 1.153 |
| Ice | | | | | | |
| 0.9 Dead+1.0 Wind 90 deg - No | 88.014 | 81.895 | -1.309 | -367.233 | -15797.314 | 1.114 |
| Ice | | | | | | |
| 1.2 Dead+1.0 Wind 120 deg - No Ice | 117.352 | 75.798 | 41.150 | 7664.888 | -14547.666 | 34.122 |

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 27 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | A Decision of A DATE - Configuration | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Load Combination | Vertical | $Shear_{\star}$ | Shear _z | Overturning Moment, M _x | Overturning Moment, M _z | Torque |
|------------------------------|---------------|-----------------|--------------------|---------------------------------------|-----------------------------------------|----------|
| | K | K | K | kip-ft | kip-ft | kip-ft |
| 9 Dead+1 0 Wind 120 deg - | 88 014 | 75.796 | 41.148 | 7644.155 | -14513.867 | 34.07 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 150 deg - | 117.352 | 39.993 | 69 142 | 13283 890 | -7677.326 | 48.09 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 150 deg - | 88 014 | 39.991 | 69.140 | 13249.057 | -7660 362 | 48.06 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 180 deg - | 117.352 | 0.000 | 77.874 | 15095.992 | 8.019 | 12:73 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 180 deg - | 88.014 | 0.000 | 77.871 | 15056.515 | 6.015 | 12.71 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 210 deg - | 117.352 | -40.103 | 69.333 | 13343.554 | 7727.896 | -11.08 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 210 deg - | 88 014 | -40 101 | 69.331 | 13308.539 | 7706.819 | -11.08 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 240 deg - | 117.352 | -75.987 | 41.259 | 7698.872 | 14622.779 | -1.17 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 240 deg - | 88.014 | -75.984 | 41.257 | 7678.035 | 14584.792 | -1.14 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 270 deg - | 117.352 | -81.897 | -1.309 | -366.058 | 15850.316 | -1.15 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 270 deg - | 88.014 | -81.895 | -1.309 | -367.234 | 15809.234 | -1.11 |
| No Ice | | | | | | |
| 1.2 Dead+1.0 Wind 300 deg - | 117.352 | -69.684 | -39.897 | -7723 263 | 13565.776 | -38 44 |
| No Ice | | | | | | |
| 0.9 Dead+1.0 Wind 300 deg - | 88 014 | -69.681 | -39 896 | -7706 379 | 13530.268 | -38.39 |
| No Ice | 573VAX-1573VA | W000000 | 2018 | 000011440011010 | 100000000000000000000000000000000000000 | 122 173 |
| 1.2 Dead+1.0 Wind 330 deg - | 117.352 | -41.565 | -69,166 | -13273.112 | 8143 182 | -53.46 |
| No Ice | nuran arena | 000-00250-00 | 2002270704044 | | 000002417002220 | 7247 934 |
| 0.9 Dead+1.0 Wind 330 deg - | 88.014 | -41.564 | -69 163 | -13242.597 | 8121.030 | -53.42 |
| No Ice | 201.00 | | | | a | |
| 1.2 Dead+1.0 Ice+1.0 Temp | 304.687 | 0.001 | -0.001 | 57,391 | 76.328 | -0.00 |
| 1.2 Dead+1.0 Wind 0 deg+1.0 | 304.687 | 0.000 | -11.828 | -2336.139 | 76.957 | -4.01 |
| ce+1.0 Temp | 401.00 | | | | | 0.00 |
| 1.2 Dead+1.0 Wind 30 deg+1.0 | 304.687 | 5.867 | -9.907 | -1951.119 | -1126.121 | -0.63 |
| ce+1.0 Temp | 201.408 | | | 1117.078 | | |
| 1.2 Dead+1.0 Wind 60 deg+1.0 | 304.687 | 10.048 | -5.771 | -1116 857 | -1973.275 | 0.05 |
| lce+1.0 Temp | | | | | | |
| 1.2 Dead+1.0 Wind 90 deg+1.0 | 304.687 | 11.736 | -0.118 | 23.432 | -2305.494 | 1.85 |
| ce+1.0 Temp | 264.607 | 10.470 | = 010 | 1212 2/2 | 2011.010 | 5.73 |
| 1.2 Dead+1.0 Wind 120 | 304.687 | 10.470 | 5.810 | 1212.362 | -2041.949 | 5.73 |
| deg+1.0 Ice+1.0 Temp | 201100 | | 2.44 | 2011 100 | | |
| 1.2 Dead+1.0 Wind 150 | 304.687 | 5.716 | 9.889 | 2061.490 | -1081 710 | 7.02 |
| deg+1.0 Ice+1.0 Temp | 201 (97 | 0.000 | 11.201 | 2255 (00 | 77.042 | 4.01 |
| 1.2 Dead+1.0 Wind 180 | 304.687 | 0.000 | 11.284 | 2355.698 | 76.943 | 4.01 |
| deg+1.0 Ice+1.0 Temp | 204 (97 | 5 70 F | 0.005 | 20// 10/ | 1229 104 | 1.13 |
| 1.2 Dead+1.0 Wind 210 | 304.687 | -5.725 | 9.905 | 2066.496 | 1238 494 | 1.12 |
| deg+1.0 Ice+1.0 Temp | 201/07 | 10.407 | 5010 | 1215 221 | 2200 924 | 0.22 |
| 1.2 Dead+1.0 Wind 240 | 304.687 | -10.486 | 5.819 | 1215.231 | 2200.834 | 0.33 |
| deg+1.0 Ice+1.0 Temp | 204 697 | 11.726 | 0.110 | 22.422 | 2450 297 | 1.96 |
| 1.2 Dead+1.0 Wind 270 | 304.687 | -11 736 | -0.118 | 23.423 | 2459 387 | -1.86 |
| leg+1.0 Ice+1.0 Temp | 204 (07 | 10.022 | 5.7/2 | 1112.060 | 2122 162 | 6.13 |
| 2 Dead+1.0 Wind 300 | 304.687 | -10.032 | -5.762 | -1113.968 | 2122.162 | -6.12 |
| leg+1.0 Ice+1.0 Temp | 204 707 | 5.050 | 0.000 | 1046 100 | 1277 126 | 7.00 |
| 1.2 Dead+1.0 Wind 330 | 304.687 | -5.858 | -9.892 | -1946 108 | 1277.135 | -7.50 |
| leg+1.0 Ice+1.0 Temp | 02.204 | 0.000 | 22.024 | 5227 557 | 1.137 | 4.12 |
| Dead+Wind 0 deg - Service | 97.794 | 0.000 | -27.874 | -5327.557 | 6.636 | -4.15 |
| Dead+Wind 30 deg - Service | 97.794 | 13.608 | -22.647 | -4342 621 | -2656.985 | 5.39 |
| Dead+Wind 60 deg - Service | 97.794 | 22.816 | -13.063 | -2524.770 | -4432.975 | 1.78 |
| Dead+Wind 90 deg - Service | 97.794 | 26.742 | -0.427 | -114.869 | -5158.586 | 0.34 |
| Dead+Wind 120 deg - Service | 97.794 | 24.751 | 13.437 | 2503.542 | -4739.114 | 11.13 |
| Dead+Wind 150 deg - Service | 97.794 | 13.059 | 22.577 | 4335.431 | -2499.082 | 15.71 |

B+T Group 1717 S. Boulder Ave, Ste 300

Tulsa, OK 74119
Phone: (918) 587-4630
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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 28 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| Load Combination | Vertical | Shear _x | Shear _z | Overturning Moment, M. | Overturning Moment, M. | Torque |
|-----------------------------|----------|--------------------|--------------------|---------------------------|---------------------------|---------|
| | K | K | K | kip-ft | kip-ft | kip-ft |
| Dead+Wind 180 deg - Service | 97.794 | 0.000 | 25.429 | 4926.194 | 6.633 | 4.157 |
| Dead+Wind 210 deg - Service | 97.794 | -13.095 | 22.640 | 4354.902 | 2523.602 | -3.640 |
| Dead+Wind 240 deg - Service | 97.794 | -24.812 | 13.472 | 2514.652 | 4771.652 | -0.379 |
| Dead+Wind 270 deg - Service | 97.794 | -26.742 | -0.427 | -114.870 | 5171.843 | -0.349 |
| Dead+Wind 300 deg - Service | 97.794 | -22.754 | -13.028 | -2513.628 | 4426.971 | -12.543 |
| Dead+Wind 330 deg - Service | 97.794 | -13.572 | -22.585 | -4323.132 | 2659.011 | -17.467 |

Solution Summary

| 10 101 | Sui | m of Applied Forces | | <u> </u> | S | 020002 | |
|--------|---------|---------------------|---------|----------|---------|---------|--------|
| Load | PX | PY | PZ | PX | PY | PZ | % Erro |
| Comb. | K | K | K | K | K | K | |
| 1 | 0.000 | -97 794 | 0.000 | 0.000 | 97.794 | -0.000 | 0.000% |
| 2 | 0.000 | -117.352 | -85.371 | -0.000 | 117.352 | 85.364 | 0.005% |
| 3 | 0.000 | -88.014 | -85.371 | -0.000 | 88.014 | 85.361 | 0.008% |
| 4 | 41.678 | -117.352 | -69.362 | -41.675 | 117.352 | 69.356 | 0.005% |
| 5 | 41.678 | -88.014 | -69.362 | -41.674 | 88.014 | 69.354 | 0.008% |
| 6 | 69.878 | -117.352 | -40.009 | -69.872 | 117.352 | 40.006 | 0.004% |
| 7 | 69.878 | -88.014 | -40.009 | -69.870 | 88.014 | 40.005 | 0.007% |
| 8 | 81.904 | -117.352 | -1.309 | -81.897 | 117.352 | 1.309 | 0.005% |
| 9 | 81.904 | -88.014 | -1.309 | -81.895 | 88.014 | 1.309 | 0.008% |
| 10 | 75.804 | -117.352 | 41.153 | -75 798 | 117.352 | -41.150 | 0.005% |
| 11 | 75.804 | -88.014 | 41.153 | -75.796 | 88.014 | -41.148 | 0.008% |
| 12 | 39.996 | -117.352 | 69.148 | -39.993 | 117.352 | -69.142 | 0.005% |
| 13 | 39.996 | -88.014 | 69.148 | -39.991 | 88.014 | -69.140 | 0.008% |
| 14 | 0.000 | -117.352 | 77.880 | -0.000 | 117.352 | -77.874 | 0.004% |
| 15 | 0.000 | -88.014 | 77.880 | -0.000 | 88.014 | -77.871 | 0.007% |
| 16 | -40.106 | -117.352 | 69.338 | 40.103 | 117.352 | -69.333 | 0.005% |
| 17 | -40.106 | -88.014 | 69.338 | 40.101 | 88.014 | -69.331 | 0.008% |
| 18 | -75.993 | -117.352 | 41.262 | 75.987 | 117.352 | -41.259 | 0.0059 |
| 19 | -75.993 | -88.014 | 41.262 | 75.984 | 88.014 | -41.257 | 0.0089 |
| 20 | -81.904 | -117.352 | -1.309 | 81.897 | 117.352 | 1.309 | 0.0059 |
| 21 | -81.904 | -88.014 | -1.309 | 81.895 | 88.014 | 1.309 | 0.0089 |
| 22 | -69.689 | -117.352 | -39.900 | 69.684 | 117.352 | 39.897 | 0.0049 |
| 23 | -69.689 | -88.014 | -39 900 | 69.681 | 88.014 | 39.896 | 0.0079 |
| 24 | -41.568 | -117.352 | -69.171 | 41.565 | 117.352 | 69.166 | 0.0059 |
| 25 | -41.568 | -88.014 | -69.171 | 41.564 | 88.014 | 69.163 | 0.0089 |
| 26 | 0.000 | -304.687 | 0.000 | -0.001 | 304.687 | 0.001 | 0.0019 |
| 27 | 0.000 | -304.687 | -11.830 | -0.000 | 304.687 | 11.828 | 0.0019 |
| 28 | 5.868 | -304 687 | -9.909 | -5.867 | 304.687 | 9.907 | 0.0019 |
| 29 | 10.050 | -304.687 | -5.772 | -10.048 | 304.687 | 5.771 | 0.0019 |
| 30 | 11.738 | -304.687 | -0.118 | -11.736 | 304.687 | 0.118 | 0.0019 |
| 31 | 10.472 | -304.687 | 5.811 | -10.470 | 304.687 | -5.810 | 0.0019 |
| 32 | 5.717 | -304.687 | 9.891 | -5.716 | 304.687 | -9.889 | 0.0019 |
| 33 | 0.000 | -304.687 | 11.286 | -0.000 | 304.687 | -11.284 | 0.001% |
| 34 | -5.726 | -304.687 | 9.907 | 5.725 | 304.687 | -9.905 | 0.0019 |
| 35 | -10.488 | -304.687 | 5.820 | 10.486 | 304.687 | -5.819 | 0.0019 |
| 36 | -11.738 | -304 687 | -0.118 | 11.736 | 304.687 | 0.118 | 0.0019 |
| 37 | -10.034 | -304.687 | -5.763 | 10.032 | 304.687 | 5.762 | 0.0019 |
| 38 | -5.859 | -304.687 | -9.893 | 5.858 | 304.687 | 9.892 | 0.0019 |
| 39 | 0.000 | -97.794 | -27.876 | -0.000 | 97.794 | 27.874 | 0.0029 |
| 40 | 13.609 | -97.794 | -22.649 | -13.608 | 97.794 | 22,647 | 0.002% |
| 41 | 22.817 | -97.794 | -13 064 | -22.816 | 97.794 | 13.063 | 0.0029 |
| 42 | 26.744 | -97.794 | -0.428 | -26.742 | 97.794 | 0.427 | 0.0029 |
| 43 | 24.752 | -97.794 | 13.438 | -24.751 | 97.794 | -13.437 | 0.0029 |
| 44 | 13.060 | -97.794 | 22.579 | -13.059 | 97.794 | -22.577 | 0.0029 |
| 45 | -0.000 | -97.794 | 25.430 | -0.000 | 97.794 | -25.429 | 0.002% |
| 46 | -13.096 | -97.794 | 22.641 | 13.095 | 97 794 | -22.640 | 0.002% |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| | Sur | n of Applied Force. | 5 | | Sum of Reaction | S | |
|-------|---------|---------------------|---------|--------|-----------------|---------|---------|
| Load | PX | PY | PZ | PX | PY | PZ | % Error |
| Comb. | K | K | K | K | K | K | |
| 47 | -24.814 | -97.794 | 13.473 | 24.812 | 97.794 | -13.472 | 0.002% |
| 48 | -26.744 | -97.794 | -0.428 | 26.742 | 97.794 | 0.427 | 0.002% |
| 49 | -22.756 | -97.794 | -13.029 | 22 754 | 97.794 | 13 028 | 0.002% |
| 50 | -13.573 | -97.794 | -22.587 | 13.572 | 97.794 | 22.585 | 0.002% |

Non-Linear Convergence Results

| Load | Converged? | Number | Displacement | Force |
|-------------|------------|-----------|--------------|------------|
| Combination | | of Cycles | Tolerance | Tolerance |
| 1 | Yes | 6 | 0.00000001 | 0.00000001 |
| 2 | Yes | 15 | 0.00006093 | 0.00011056 |
| 3 | Yes | 14 | 0.00008412 | 0.00014944 |
| 4 | Yes | 15 | 0.00005908 | 0.00010748 |
| 5 | Yes | 14 | 0.00008089 | 0.00014404 |
| 6 | Yes | 15 | 0.00005751 | 0.00010478 |
| 7 | Yes | 14 | 0.00007811 | 0.00013931 |
| 8 | Yes | 15 | 0.00005907 | 0.00010740 |
| 9 | Yes | 14 | 0.00008087 | 0.00014393 |
| 10 | Yes | 15 | 0.00006085 | 0.00011030 |
| 11 | Yes | 14 | 0.00008401 | 0.00014906 |
| 12 | Yes | 15 | 0.00005919 | 0.00010760 |
| 13 | Yes | 14 | 0.00008108 | 0.00014428 |
| 14 | Yes | 15 | 0.00005757 | 0.00010493 |
| 15 | Yes | 14 | 0.00007820 | 0.00013953 |
| 16 | Yes | 15 | 0.00005921 | 0.00010767 |
| 17 | Yes | 14 | 0.00008111 | 0.00014438 |
| 18 | Yes | 15 | 0.00006088 | 0.00011037 |
| 19 | Yes | 14 | 0.00008405 | 0.00014917 |
| 20 | Yes | 15 | 0 00005907 | 0.00010739 |
| 21 | Yes | 14 | 0.00008087 | 0.00014392 |
| 22 | Yes | 15 | 0.00005752 | 0.00010474 |
| 23 | Yes | 14 | 0.00007813 | 0.00013928 |
| 24 | Yes | 15 | 0.00005907 | 0.00010741 |
| 25 | Yes | 14 | 0.00008086 | 0.00014395 |
| 26 | Yes | 11 | 0.00000001 | 0.00009970 |
| 27 | Yes | 16 | 0.00012584 | 0.00013842 |
| 28 | Yes | 16 | 0.00012545 | 0.00013554 |
| 29 | Yes | 16 | 0.00012543 | 0.00013647 |
| 30 | Yes | 16 | 0.00012549 | 0.00013835 |
| 31 | Yes | 16 | 0.00012640 | 0.00013333 |
| 32 | Yes | 16 | 0.00012641 | 0.00014119 |
| 33 | Yes | 16 | 0.00012645 | 0.00014150 |
| 34 | Yes | 16 | 0.00012645 | 0.00014130 |
| 35 | Yes | 16 | | |
| 36 | Yes | | 0.00012678 | 0.00014579 |
| | | 16 | 0.00012638 | 0.00014353 |
| 37 | Yes | 16 | 0.00012592 | 0.00014090 |
| 38 39 | Yes | 16 15 | 0.00012575 | 0.00013815 |
| | Yes | | 0.00004909 | 0.00008819 |
| 40 | Yes | 15 | 0.00000001 | 0.00008727 |
| 41 | Yes | 15 | 0.00000001 | 0.00008651 |
| 42 | Yes | 15 | 0.00000001 | 0.00008724 |
| 43 | Yes | 15 | 0.00004905 | 0.00008804 |
| 44 | Yes | 15 | 0.00000001 | 0.00008724 |
| 45 | Yes | 15 | 0.00000001 | 0.00008654 |
| 46 | Yes | 15 | 0.00000001 | 0.00008730 |
| 47 | Yes | 15 | 0.00004906 | 0.00008808 |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | II AND T | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| 48 | Yes | 15 | 0.00000001 | 0.00008723 |
|----|-----|----|------------|------------|
| 49 | Yes | 15 | 0.00000001 | 0.00008644 |
| 50 | Yes | 15 | 0.00000001 | 0.00008720 |

Maximum Tower Deflections - Service Wind

| Section No. | Elevation | Horz. Deflection | Gov. Load | Tilt | Twist |
|----------------|-----------|---------------------|--------------|-------|-------|
| | ft | in | Comb. | 0 | 0 |
| TI | 330 - 320 | 21.335 | 47 | 0.613 | 0.097 |
| T2 | 320 - 300 | 20.006 | 47 | 0.614 | 0.096 |
| T3 | 300 - 280 | 17.373 | 47 | 0.586 | 0.095 |
| T4 | 280 - 260 | 14.883 | 47 | 0.542 | 0.090 |
| T5 | 260 - 240 | 12.620 | 47 | 0.488 | 0.078 |
| T6 | 240 - 220 | 10.600 | 47 | 0.433 | 0.067 |
| T7 | 220 - 200 | 8.798 | 47 | 0.383 | 0.057 |
| T8 | 200 - 180 | 7.204 | 47 | 0.337 | 0.048 |
| T9 | 180 - 160 | 5.783 | 47 | 0.296 | 0.039 |
| T10 | 160 - 140 | 4.523 | 47 | 0.254 | 0.030 |
| T11 | 140 - 120 | 3.441 | 47 | 0.216 | 0.023 |
| T12 | 120 - 100 | 2.544 | 47 | 0.182 | 0.019 |
| T13 | 100 - 80 | 1 792 | 47 | 0.147 | 0.015 |
| T14 | 80 - 60 | 1.185 | 47 | 0.115 | 0.012 |
| T15 | 60 - 40 | 0.707 | 47 | 0.083 | 0.009 |
| T16 | 40 - 20 | 0.351 | 47 | 0.055 | 0.006 |
| T17 | 20 - 0 | 0.112 | 47 | 0.026 | 0.002 |

Critical Deflections and Radius of Curvature - Service Wind

| Elevation | Appurtenance | Gov. Load | Deflection | Tilt | Twist | Radius of Curvature |
|-----------|---------------------------------|--------------|------------|-------|-------|------------------------|
| ft | | Comb. | in | 0 | 0 | ft |
| 330.000 | Lightning Rod 1"x10" | 47 | 21.335 | 0.613 | 0.097 | Inf |
| 325.000 | Sector1(CaAa=13333 33 Sq.in)No | 47 | 20.670 | 0.614 | 0.096 | Inf |
| | Ice | | | | | |
| 313.000 | Sector1(CaAa=10000 Sq.in)No Ice | 47 | 19.076 | 0.608 | 0.096 | 86310 |
| 301.000 | Sector1(CaAa=10000 Sq.in)No Ice | 47 | 17.502 | 0.588 | 0.095 | 32242 |
| 289.000 | 6' MW Dish | 47 | 15.979 | 0.563 | 0.093 | 23235 |
| 277.000 | 6' MW Dish | 47 | 14.528 | 0.534 | 0.089 | 19521 |

Maximum Tower Deflections - Design Wind

| Section | Elevation | Horz. | Gov. | Tilt | Twist |
|---------|-----------|------------|-------|-------|-------|
| No. | | Deflection | Load | | |
| | ft | in | Comb. | 0 | 0 |
| T1 | 330 - 320 | 65.419 | 18 | 1.878 | 0.296 |
| T2 | 320 - 300 | 61.343 | 18 | 1 883 | 0.295 |
| T3 | 300 - 280 | 53.269 | 18 | 1.796 | 0.292 |
| T4 | 280 - 260 | 45.635 | 18 | 1.660 | 0.276 |
| T5 | 260 - 240 | 38.695 | 18 | 1.495 | 0.238 |
| T6 | 240 - 220 | 32.501 | 18 | 1.328 | 0.205 |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Horz. Deflection | Gov. Load | Tilt | Twist |
|----------------|-----------|---------------------|--------------|-------|-------|
| | ft | in | Comb. | 0 | 0. |
| T7 | 220 - 200 | 26.976 | 18 | 1.174 | 0.174 |
| T8 | 200 - 180 | 22.090 | 18 | 1.034 | 0.147 |
| T9 | 180 - 160 | 17.731 | 18 | 0.908 | 0.121 |
| T10 | 160 - 140 | 13.868 | 18 | 0.779 | 0.093 |
| TH | 140 - 120 | 10.551 | 18 | 0.663 | 0.072 |
| T12 | 120 - 100 | 7.802 | 18 | 0.557 | 0.060 |
| T13 | 100 - 80 | 5.495 | 18 | 0.449 | 0.048 |
| T14 | 80 - 60 | 3.634 | 18 | 0.353 | 0.038 |
| T15 | 60 - 40 | 2.168 | 18 | 0.255 | 0.028 |
| T16 | 40 - 20 | 1.078 | 18 | 0.168 | 0.017 |
| T17 | 20 - 0 | 0.344 | 18 | 0.080 | 0.008 |

Critical Deflections and Radius of Curvature - Design Wind

| Elevation | Appurtenance | Gov. Load | Deflection | Tilt | Twist | Radius of Curvature |
|-----------|---------------------------------|--------------|------------|-------|-------|------------------------|
| ft | | Comb. | in | 0 | 0 | fi |
| 330.000 | Lightning Rod 1"x10" | 18 | 65.419 | 1.878 | 0.296 | 912392 |
| 325.000 | Sector1(CaAa=13333.33 Sq.in)No | 18 | 63.381 | 1.883 | 0.296 | 912392 |
| | Ice | | | | | |
| 313.000 | Sector1(CaAa=10000 Sq in)No Ice | 18 | 58.493 | 1.865 | 0.294 | 28808 |
| 301.000 | Sector1(CaAa=10000 Sq in)No Ice | 18 | 53.666 | 1.802 | 0.292 | 10560 |
| 289.000 | 6' MW Dish | 18 | 48.995 | 1.725 | 0.286 | 7610 |
| 277.000 | 6' MW Dish | 18 | 44.546 | 1.637 | 0.272 | 6397 |

Bolt Design Data

| Section No. | Elevation | Component Type | Bolt Grade | Bolt Size | Number Of | Maximum Load | Allowable Load | Rati Loa | | Allowable Ratio | Criteria |
|----------------|-----------|-------------------|---------------|-----------|--------------|-----------------|-------------------|-------------|------|--------------------|-----------------------|
| | ft | | | in | in Bolts | per Bolt K | per Bolt K | Allow | able | | |
| T1 | 330 | Diagonal | A325X | 0.625 | 1 | 3 570 | 9.598 | 0.372 | V | 1 | Member Block Shear |
| | | Top Girt | A325X | 0.625 | 1 | 1.853 | 9.598 | 0.193 | V | 1 | Member Block Shear |
| T2 | 320 | Leg | A325N | 0.750 | 6 | 1.367 | 30.101 | 0.045 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 5.404 | 9 598 | 0.563 | V | 1 | Member Block Shear |
| T3 | 300 | Leg | A325N | 0.750 | 6 | 7.700 | 30.101 | 0.256 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 7.619 | 9.598 | 0.794 | V | 1 | Member Block Shear |
| T4 | 280 | Leg | A325N | 0.750 | 6 | 16.235 | 30.101 | 0.539 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 8.466 | 10.740 | 0.788 | V | 1 | Member Block Shear |
| T5 | 260 | Leg | A325N | 0.750 | 6 | 24.455 | 30.101 | 0.812 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 8.538 | 13.025 | 0.655 | V | 1 | Member Block Shear |
| T6 | 240 | Leg | A325N | 1.000 | 6 | 31.799 | 54.517 | 0.583 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 8.801 | 13.025 | 0.676 | V | 1 | Member Block Shear |

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 32 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | II A MITO T | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Component Type | Bolt Grade | Bolt Size | Number Of | Maximum Load | Allowable Load | Rat Loc | | Allowable Ratio | Criteria |
|----------------|-----------|-------------------|---------------|-----------|--------------|-----------------|-------------------|------------|------|--------------------|-----------------------|
| | ft | | | in | Bolts | per Bolt K | per Bolt K | Allow | able | , | |
| T7 | 220 | Leg | A325N | 1.000 | 6 | 38.518 | 54.517 | 0.707 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 9.401 | 14.168 | 0.664 | | 1 | Member Block Shear |
| T8 | 200 | Leg | A325N | 1.000 | 6 | 44.883 | 54.517 | 0.823 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 10.233 | 14.168 | 0.722 | V | 1 | Member Block Shear |
| T9 | 180 | Leg | A325N | 1.000 | 6 | 51.073 | 54.517 | 0.937 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 10.790 | 14.168 | 0 762 | V | 1 | Member Block Shear |
| T10 | 160 | Leg | A325N | 1.250 | 6 | 57.113 | 87.220 | 0.655 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 11.646 | 17.257 | 0.675 | / | 1 | Bolt Shear |
| T11 | 140 | Leg | A325N | 1.250 | 6 | 63.063 | 87.220 | 0.723 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 13.222 | 26.051 | 0.508 | V | 1 | Member Block Shear |
| | | Horizontal | A325X | 0.625 | 1 | 7.879 | 19 195 | 0.410 | V | 1 | Member Block Shear |
| T12 | 120 | Leg | A325N | 1.250 | 6 | 68.914 | 87.220 | 0.790 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 13.471 | 26.051 | 0.517 | V | 1 | Member Bloc Shear |
| | | Horizontal | A325X | 0.625 | I | 8.598 | 21.480 | 0.400 | V | 1 | Member Block Shear |
| T13 | 100 | Leg | A325N | 1.250 | 6 | 74.547 | 87.220 | 0.855 | ~ | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 14.255 | 28.336 | 0.503 | V | 1 | Member Block Shear |
| | | Horizontal | A325X | 0.625 | 1 | 9.311 | 26.051 | 0.357 | V | 1 | Member Block Shear |
| T14 | 80 | Leg | A325N | 1.250 | 6 | 80.057 | 87.220 | 0.918 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 14.681 | 28.336 | 0.518 | V | 1 | Member Block Shear |
| | | Horizontal | A325X | 0.625 | 1 | 10.020 | 26 051 | 0.385 | V | 1 | Member Block Shear |
| T15 | 60 | Leg | A325N | 1.250 | 6 | 85.451 | 87.220 | 0.980 | 1 | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 15.340 | 28,336 | 0.541 | V | 1 | Member Block Shear |
| | | Horizontal | A325X | 0.625 | 1 | 10.724 | 26.051 | 0.412 | V | 1 | Member Block Shear |
| T16 | 40 | Leg | A325N | 1.500 | 6 | 90.759 | 126 472 | 0.718 | V | 1 | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 15.560 | 28.336 | 0.549 | | 1 | Member Bloc Shear |
| | | Horizontal | A325X | 0.625 | 1 | 11.422 | 26.051 | 0.438 | V | 1 | Member Block Shear |
| T17 | 20 | Leg | A325N | 1.500 | 6 | 95.921 | 126.472 | 0.758 | V | I | Bolt Tension |
| | | Diagonal | A325X | 0.625 | 1 | 16.469 | 29.250 | 0.563 | V | 1 | Gusset Bearin |
| | | Horizontal | A325X | 0.625 | 1 | 12.108 | 28 336 | 0.427 | V | 1 | Member Block Shear |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| | Leg | Design | Data | (Con | ipres | sion) |
|---|-----|--------|------|------|-------|-------|
| | | | | | | |
| 7 | | , | 7 | WILL | - 4 | n |

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|-------|--------|-------|-----------------|-----------------|----------|------------|-------------------------|
| | fi | | ft | ft | | in ² | K | K | ϕP_n |
| TI | 330 - 320 | 1 3/4 | 10.009 | 4.504 | 123.5 K=1.00 | 2.405 | -6.285 | 35.601 | 0.177 |
| T2 | 320 - 300 | 2 | 20.019 | 4.754 | 114.1 K=1.00 | 3 142 | -46 767 | 54.509 | 0.858 |
| Т3 | 300 - 280 | 2 1/2 | 20.019 | 4.754 | 91.3 K=1.00 | 4 909 | -100.906 | 120.108 | 0.840 |
| T4 | 280 - 260 | 2 3/4 | 20.019 | 4.754 | 83.0 K=1.00 | 5.940 | -153.975 | 161.540 | 0.953 |
| T5 | 260 - 240 | 3 | 20.019 | 4.754 | 76.1 K=1.00 | 7.069 | -202.065 | 208.347 | 0.970 |
| T6 | 240 - 220 | 3 1/4 | 20.019 | 4 754 | 70.2 K=1.00 | 8 296 | -246.561 | 260.312 | 0.947 |
| T7 | 220 - 200 | 3 1/2 | 20.019 | 4.754 | 65.2 K=1.00 | 9.621 | -289.647 | 317.273 | 0.913 |
| T8 | 200 - 180 | 3 3/4 | 20.019 | 4.754 | 60.9 K=1.00 | 11.045 | -332.344 | 379.106 | 0.877 |
| Т9 | 180 - 160 | 3 3/4 | 20.019 | 4.754 | 60.9 K=1.00 | 11.045 | -374.664 | 379.106 | 0.988 |
| T10 | 160 - 140 | 4 | 20.019 | 4.754 | 57.1 K=1.00 | 12.566 | -417.384 | 445.717 | 0.936 |
| T11 | 140 - 120 | 4 1/4 | 20.019 | 4.754 | 53.7 K=1.00 | 14.186 | -454.552 | 517.034 | 0.879 |
| T12 | 120 - 100 | 4 1/4 | 20.019 | 4.754 | 53.7 K=1.00 | 14.186 | -496 036 | 517.034 | 0.959 |
| T13 | 100 - 80 | 4 1/2 | 20.019 | 4.754 | 50.7 K=1.00 | 15.904 | -537.178 | 593.004 | 0.906 |
| T14 | 80 - 60 | 4 1/2 | 20.019 | 4.754 | 50.7 K=1.00 | 15.904 | -578.095 | 593.004 | 0.975 |
| T15 | 60 - 40 | 4 3/4 | 20.019 | 4.754 | 48.0 K=1.00 | 17.721 | -618.726 | 673 582 | 0.919 |
| T16 | 40 - 20 | 4 3/4 | 20.019 | 4.754 | 48.0 K=1.00 | 17.721 | -658.963 | 673.582 | 0.978 |
| T17 | 20 - 0 | 5 | 20.019 | 4.754 | 45.6 K=1.00 | 19.635 | -698.572 | 758.734 | 0.921 |

 $^{^{1}}P_{u}/\phi P_{u}$ controls

Diagonal Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P_u | |
|----------------|-----------|-------------------|-------|-------|-----------------|-------|--------|------------|-------------|--|
| ft | | | ft | ft | fi | | K | K | ϕP_n | |
| T1 | 330 - 320 | L1 3/4x1 3/4x3/16 | 6.221 | 3.127 | 109.3 K=1.00 | 0.621 | -3.240 | 14.893 | 0.218 | |
| T2 | 320 - 300 | L1 3/4x1 3/4x3/16 | 7.485 | 3.750 | 131.0 K=1.00 | 0.621 | -4.707 | 10.354 | 0.455 | |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | Harmoni (UNITI) Towers | Designed by JLandon |

| Section No. | Elevation | Size | L | L_{u} | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|----------------------------------------------------|--------|---------|-----------------|-----------------|---------|------------|-------------------------|
| | ft | | ft | ft | | in ² | K | K | ϕP_n |
| Т3 | 300 - 280 | L1 3/4x1 3/4x3/16 | 8.697 | 4.330 | 151.3 K=1.00 | 0.621 | -7 198 | 7.765 | 0.927 |
| T4 | 280 - 260 | L2x2x3/16 | 9.987 | 4.964 | 151.2 K=1.00 | 0.715 | -7.901 | 8.951 | 0.883 1 |
| T5 | 260 - 240 | L2 1/2x2 1/2x3/16 | 11.329 | 5.625 | 136.4 K=1.00 | 0.902 | -8.061 | 13.885 | 0.581 |
| T6 | 240 - 220 | L2 1/2x2 1/2x3/16 | 12.706 | 6.303 | 152.8 K=1.00 | 0.902 | -8.465 | 11.057 | 0.766 |
| T7 | 220 - 200 | L3x3x3/16 | 14.108 | 6.994 | 140.8 K=1.00 | 1.090 | -9.099 | 15.733 | 0.578 |
| T8 | 200 - 180 | L3x3x3/16 | 15.529 | 7.694 | 154.9 K=1.00 | 1.090 | -9.937 | 13.000 | 0.764 |
| T9 | 180 - 160 | L3x3x3/16 | 16.963 | 8.412 | 169.4 K=1.00 | 1.090 | -10.562 | 10.877 | 0.971 |
| T10 | 160 - 140 | L3x3x1/4 | 18.408 | 9.124 | 184.9 K=1.00 | 1.440 | -11.446 | 12.050 | 0.950 |
| T11 | 140 - 120 | 2L2 1/2x2 1/2x3/16x3/8 | 10.829 | 10.632 | 168.2 K=1.00 | 1.800 | -13.207 | 17.635 | 0.749 |
| T12 | 120 - 100 | 2L 'a' > 60 882 in - 267 2L2 1/2x2 1/2x3/16x3/8 | 11.508 | 11.313 | 179.0 K=1.00 | 1.800 | -13.564 | 15.641 | 0.867 |
| T13 | 100 - 80 | 2L 'a' > 64 783 in - 306 2L3x3x3/16x3/8 | 12.195 | 11.991 | 159.5 K=1.00 | 2.180 | -14 379 | 23.170 | 0.621 |
| T14 | 80 - 60 | 2L 'a' > 68.500 in - 345 2L3x3x3/16x3/8 | 12.889 | 12.687 | 168.8 K=1.00 | 2.180 | -14 880 | 20.849 | 0.714 |
| T15 | 60 - 40 | 2L 'a' > 72.475 in - 384 2L3x3x3/16x3/8 | 13.589 | 13.378 | 178.0 K=1.00 | 2.180 | -15.666 | 18.864 | 0.830 |
| T16 | 40 - 20 | 2L 'a' > 76.419 in - 423 2L3x3x3/16x3/8 | 14.294 | 14.084 | 187.4 K=1.00 | 2.180 | -15 992 | 17.103 | 0.935 |
| T17 | 20 - 0 | 2L 'a' > 80.455 in - 462 2L3x3x1/4x3/8 | 15.003 | 14.784 | 196.8 K=1.00 | 2.880 | -16.469 | 20.903 | 0.788 |
| | | 2L 'a' > 84.697 in - 501 | | | | | | | |

 $^{^{1}}P_{u}/\phi P_{n}$ controls

Horizontal Design Data (Compression)

| Section No. | Elevation | Size | L | L_{u} | Kl/r | A | P_u | ϕP_n | Ratio P., |
|----------------|-----------|--------------------------|--------|---------|-----------------|-------|--------|------------|--------------|
| ft | | ft | ft | | in^2 | K | K | ϕP_n | |
| TH | 140 - 120 | 2L1 3/4x1 3/4x3/16x3/8 | 19.106 | 9.376 | 209.5 K=1.00 | 1.242 | -7.879 | 8.097 | 0.973 |
| | | 2L 'a' > 53.975 in - 265 | | | | | | | ON THE OWNER |
| T12 | 120 - 100 | 2L2x2x3/16x3/8 | 20.606 | 10,126 | 198.1 K=1.00 | 1.430 | -8.598 | 10.289 | 0.836 |
| | | 2L 'a' > 58 196 in - 304 | | | | | | | |

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 35 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Size | L | L_{u} | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|--------------------------|--------|---------|-----------------|--------|---------|------------|-------------------------|
| | ft | | ft | ft | | in^2 | K | K | ϕP_n |
| T13 | 100 - 80 | 2L2 1/2x2 1/2x3/16x3/8 | 22.106 | 10.866 | 171.9 K=1.00 | 1.800 | -9 311 | 16.912 | 0.551 |
| | | 2L 'a' > 62.219 in - 343 | | | | | | | 8 |
| T14 | 80 - 60 | 2L2 1/2x2 1/2x3/16x3/8 | 23.606 | 11.616 | 183.8 | 1.800 | -10.020 | 14 861 | 0.674 |
| | | | | | K = 1.00 | | | | V |
| | | 2L 'a' > 66.514 in - 382 | | | | | | | 1000 |
| T15 | 60 - 40 | 2L2 1/2x2 1/2x3/16x3/8 | 25 106 | 12.355 | 195.5 | 1.800 | -10.724 | 13.179 | 0.814 |
| | | | | | K = 1.00 | | | | V |
| | | 2L 'a' > 70 749 in - 421 | | | | | | | |
| T16 | 40 - 20 | 2L2 1/2x2 1/2x3/16x3/8 | 26.606 | 13.105 | 207.4 | 1.800 | -11.422 | 11.746 | 0.972 1 |
| | | | | | K=1.00 | | | | V |
| | | 2L 'a' > 75.043 in - 460 | | | | | | | |
| T17 | 20 - 0 | 2L3x3x3/16x3/8 | 28.106 | 13.845 | 184.2 | 2.180 | -12.108 | 17.672 | 0.685 1 |
| | | | | | K=1.00 | | | | V |
| | | 2L 'a' > 79 088 in - 499 | | | | | | | |

¹ P_u / ϕP_n controls

| Top Gir | t Design | Data | (Compression) |
|---------|----------|------|---------------|
| | | | (00 |

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|-------------|-----------|-------------------|-------|-------|-----------------|-----------------|--------|------------|-------------------------|
| | ft | | ft | ft | | in ² | K | K | ϕP_n |
| TI | 330 - 320 | L1 3/4x1 3/4x3/16 | 3.788 | 3.642 | 127.2 K=1.00 | 0.621 | -1.839 | 10.980 | 0.167 |

 $^{^{1}}P_{u}/\phi P_{n}$ controls

Inner Bracing Design Data (Compression)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|--------------------------|--------|--------|-----------------|--------|--------|------------|-------------|
| | ft | | ft | ft | | in^2 | K | K | ϕP_n |
| T11 | 140 - 120 | L1 3/4x1 3/4x3/16 | 9.553 | 9.553 | 333.8 K=1.00 | 0.621 | -0.011 | 1.596 | 0.007 |
| | | $KL/R \ge 250 (C) - 274$ | | | | | | | |
| T12 | 120 - 100 | L1 3/4x1 3/4x3/16 | 10.303 | 10.303 | 360.0 K=1.00 | 0.621 | -0.012 | 1.372 | 0.009 |
| | | KL/R > 250 (C) - 313 | | | | | | | |
| T13 | 100 - 80 | L1 3/4x1 3/4x3/16 | 11.053 | 11.053 | 386.2 K=1.00 | 0.621 | -0.014 | 1.192 | 0.012 |
| | | KL/R > 250 (C) - 352 | | | | | | | |
| T14 | 80 - 60 | L1 3/4x1 3/4x3/16 | 11.803 | 11.803 | 412,4 K=1.00 | 0.621 | -0.014 | 1.045 | 0.014 |
| | | $KL/R \ge 250 (C) - 391$ | | | | | | | |
| T15 | 60 - 40 | L1 3/4x1 3/4x3/16 | 12.553 | 12.553 | 438.6 K=1.00 | 0.621 | -0.015 | 0.924 | 0.016 |
| | | KL/R > 250 (C) - 430 | | | | | | | |

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 36 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P _u |
|----------------|-----------|-------------------------------------------|--------|--------|-----------------|-----------------|--------|------------|-------------------------|
| | ft | | ft | ft | | in ² | K | K | ϕP_n |
| T16 | 40 - 20 | L1 3/4x1 3/4x3/16 | 13.303 | 13.303 | 464.8 K=1.00 | 0.621 | -0.014 | 0.823 | 0.018 |
| T17 | 20 - 0 | KL/R > 250 (C) - 469 L1 3/4x1 3/4x3/16 | 14.053 | 14.053 | 491.0 K=1.00 | 0.621 | -0.015 | 0.737 | 0.021 |
| | | $KL/R \ge 250 (C) - 510$ | | | | | | | |

 $^{^{1}}$ P_{u} / ϕP_{n} controls

Tension Checks

| | | | Leg Des | sign D | ata (| Tensio | on) | | |
|----------------|-----------|----------|-------------|---------|---------|-----------------|---------|------------|-------------------------|
| Section No. | Elevation | Size | L | L_n | Kl/r | A | P_u | ϕP_n | Ratio P _u |
| | ft | | ft | ft | | in ² | K | K | ϕP_n |
| Tl | 330 - 320 | 1 3/4 | 10.009 | 0.500 | 13.7 | 2.405 | 8.206 | 108.238 | 0.076 1 |
| T2 | 320 - 300 | 2 | 20.019 | 0.500 | 12.0 | 3.142 | 46.214 | 141.372 | 0.327 |
| | 320 - 300 | - | 20.017 | 0.300 | 12.0 | 3.142 | 40.214 | 141.572 | ~ |
| T3 | 300 - 280 | 2 1/2 | 20.019 | 0.500 | 9.6 | 4.909 | 97.423 | 220.893 | 0.441 1 |
| | | Turnana. | 10000000000 | | 1120220 | | | 0.07.07 | ~ |
| T4 | 280 - 260 | 2 3/4 | 20.019 | 0.500 | 8.7 | 5.940 | 146.742 | 267.281 | 0.549 |
| T5 | 260 - 240 | 3 | 20.019 | 0.500 | 8.0 | 7.069 | 190.805 | 318 086 | 0.600 1 |
| | | 100 | 17001 7 530 | 310.300 | 555 | 100.00 | 500,000 | 2002(2000) | V |
| T6 | 240 - 220 | 3 1/4 | 20.019 | 0.500 | 7.4 | 8.296 | 231.125 | 373.310 | 0.619 1 |
| Tree. | 220 200 | 3.172 | 20.010 | 0.500 | | 0.721 | 260.212 | 422.051 | 0.622 |
| T7 | 220 - 200 | 3 1/2 | 20.019 | 0.500 | 6.9 | 9.621 | 269.312 | 432.951 | 0.622 |
| T8 | 200 - 180 | 3 3/4 | 20.019 | 0.500 | 6.4 | 11.045 | 306.454 | 497.010 | 0.617 |
| | | | | | | | | | ~ |
| T9 | 180 - 160 | 3 3/4 | 20.019 | 0.500 | 6.4 | 11.045 | 342.696 | 497.010 | 0.690 1 |
| T10 | 160 - 140 | 4 | 20.019 | 0.500 | 6.0 | 12.566 | 378.400 | 565.487 | 0.669 |
| 110 | 100 - 140 | 4 | 20.019 | 0.300 | 6.0 | 12.500 | 378.400 | 303.487 | 0.669 |
| T11 | 140 - 120 | 4 1/4 | 20.019 | 0.500 | 5.7 | 14.186 | 413.504 | 638.381 | 0.648 |
| | | | | | 1 | | | | ~ |
| T12 | 120 - 100 | 4 1/4 | 20.019 | 0.500 | 5.7 | 14.186 | 447.305 | 638.381 | 0.701 |
| T13 | 100 - 80 | 4 1/2 | 20.019 | 0.500 | 5.3 | 15.904 | 480.364 | 715 694 | 0.671 |
| 113 | 100 - 80 | 4 1/2 | 20.019 | 0.300 | 2.3 | 13.904 | 400.304 | 713.024 | ~ |
| T14 | 80 - 60 | 4 1/2 | 20.019 | 0.500 | 5.3 | 15.904 | 512.731 | 715 694 | 0.716 1 |
| | | | | | | | | | V |
| T15 | 60 - 40 | 4 3/4 | 20.019 | 0.500 | 5.1 | 17.721 | 544.578 | 797.425 | 0.683 1 |
| T16 | 40 - 20 | 4 3/4 | 20.019 | 0.500 | 5.1 | 17.721 | 575.557 | 797.425 | 0.722 |
| 110 | 40 - 20 | 4 3/4 | 20.019 | 0.300 | 3.1 | 17.721 | 3/3.33/ | 191.443 | 0.722 |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Size | Ĺ | L_u | Kl/r | A | P_u | ϕP_n | Ratio P., |
|----------------|-----------|------|--------|-------|------|--------|---------|------------|--------------|
| | ft | | ft | ft | | in^2 | K | K | ϕP_n |
| T17 | 20 - 0 | 5 | 20.019 | 0.500 | 4.8 | 19.635 | 605.385 | 883 573 | 0.685 |

Diagonal Design Data (Tension)

¹ P_u / ϕP_n controls

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|----------------------------------------------------|--------|--------|-------|--------|--------|------------|-------------|
| 3 1301 | ft | | ft | ft | | in^2 | K | K | ϕP_n |
| T1 | 330 - 320 | L1 3/4x1 3/4x3/16 | 6.221 | 3,127 | 69.9 | 0.360 | 3.570 | 17.567 | 0.203 |
| T2 | 320 - 300 | L1 3/4x1 3/4x3/16 | 7.485 | 3,750 | 83.8 | 0.360 | 5.404 | 17.567 | 0.308 |
| Т3 | 300 - 280 | L1 3/4x1 3/4x3/16 | 8.697 | 4.330 | 96.8 | 0.360 | 7.619 | 17.567 | 0.434 |
| T4 | 280 - 260 | L2x2x3/16 | 9.987 | 4.964 | 96.6 | 0.431 | 8.466 | 21.001 | 0.403 |
| T5 | 260 - 240 | L2 1/2x2 1/2x3/16 | 11.329 | 5.625 | 86.8 | 0.571 | 8.538 | 27.838 | 0.307 |
| Т6 | 240 - 220 | L2 1/2x2 1/2x3/16 | 12.706 | 6.303 | 97.2 | 0.571 | 8.801 | 27.838 | 0.316 |
| T7 | 220 - 200 | L3x3x3/16 | 14.108 | 6.994 | 89.4 | 0.712 | 9.401 | 34.712 | 0.271 |
| T8 | 200 - 180 | L3x3x3/16 | 15.529 | 7.694 | 98.3 | 0.712 | 10.233 | 34.712 | 0.295 |
| Т9 | 180 - 160 | L3x3x3/16 | 16.963 | 8.412 | 107.5 | 0.712 | 10.790 | 34.712 | 0.311 |
| T10 | 160 - 140 | L3x3x1/4 | 18.408 | 9.124 | 117.7 | 0.939 | 11.646 | 45.794 | 0.254 |
| T11 | 140 - 120 | 2L2 1/2x2 1/2x3/16x3/8 | 10.829 | 10.632 | 164.0 | 1.139 | 13.222 | 55.529 | 0.238 |
| T12 | 120 - 100 | 2L 'a' > 60.882 in - 266 2L2 1/2x2 1/2x3/16x3/8 | 11 508 | 11.313 | 174.5 | 1.139 | 13.471 | 55.529 | 0.243 |
| T13 | 100 - 80 | 2L 'a' > 64.783 in - 305 2L3x3x3/16x3/8 | 12.195 | 11.991 | 153.2 | 1,424 | 14.255 | 69 423 | 0.205 |
| T14 | 80 - 60 | 2L 'a' > 68.500 in - 344 2L3x3x3/16x3/8 | 12.889 | 12.687 | 162.1 | 1 424 | 14.681 | 69.423 | 0.211 |
| T15 | 60 - 40 | 2L 'a' > 72.475 in - 383 2L3x3x3/16x3/8 | 13.589 | 13.378 | 171.0 | 1.424 | 15,340 | 69.423 | 0.221 |
| T16 | 40 - 20 | 2L 'a' > 76.419 in - 422 2L3x3x3/16x3/8 | 14.294 | 14.084 | 180.0 | 1 424 | 15,560 | 69.423 | 0.224 |
| T17 | 20 - 0 | 2L 'a' > 80.455 in - 461 2L3x3x1/4x3/8 | 15.003 | 14.784 | 190.8 | 1.879 | 15.936 | 91.589 | 0.174 |

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| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P., |
|----------------|-----------|--------------------------|-----|-------|------|-----------------|-------|------------|--------------|
| | ft | | fit | ft | | in ² | K | K | ϕP_n |
| | | 2L 'a' > 84.697 in - 500 |) | | | | | | |

¹ P_u / ϕP_n controls

Horizontal Design Data (Tension)

| Section No. | Elevation | Size | L | L_u | KUr | A | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|--------------------------|--------|--------|-------|--------|--------|------------|--------------|
| | ft | | ft | ft | | in^2 | K | K | ϕP_n |
| T11 | 140 - 120 | 2L1 3/4x1 3/4x3/16x3/8 | 19.106 | 9.376 | 209.5 | 0.721 | 7.879 | 35.134 | 0.224 |
| | | 2L 'a' > 53.975 in - 265 | | | | | | | |
| T12 | 120 - 100 | 2L2x2x3/16x3/8 | 20.606 | 10.126 | 196.9 | 0.862 | 8.598 | 42.001 | 0.205 |
| | | | | | | | | | V |
| | | 2L 'a' > 58.196 in - 304 | | | | | | | |
| T13 | 100 - 80 | 2L2 1/2x2 1/2x3/16x3/8 | 22.106 | 10.866 | 167.6 | 1.139 | 9.311 | 55.529 | 0.168 |
| | | 2L 'a' > 62 219 in - 349 | | | | | | | V |
| T14 | 80 - 60 | 2L2 1/2x2 1/2x3/16x3/8 | 23.606 | 11.616 | 179.2 | 1.139 | 10.020 | 55.529 | 0.180 |
| | | | | | | | | | V |
| | | 2L 'a' > 66.514 in - 388 | | | | | | | |
| T15 | 60 - 40 | 2L2 1/2x2 1/2x3/16x3/8 | 25 106 | 12.355 | 190.6 | 1 139 | 10.724 | 55.529 | 0.193^{-1} |
| | | | | | | | | | V |
| | | 2L 'a' > 70.749 in - 421 | | | | | | | |
| T16 | 40 - 20 | 2L2 1/2x2 1/2x3/16x3/8 | 26.606 | 13.105 | 202 1 | 1.139 | 11.422 | 55.529 | 0.206^{-1} |
| | | | | | | | | | V |
| | | 2L 'a' > 75.043 in - 460 | | | | | | | |
| T17 | 20 - 0 | 2L3x3x3/16x3/8 | 28.106 | 13.845 | 176.9 | 1 424 | 12.108 | 69.423 | 0.174 |
| | | | | | | | | | V |
| | | 2L 'a' > 79.088 in - 499 | | | | | | | |

 $^{^{1}}P_{n}/\phi P_{n}$ controls

Top Girt Design Data (Tension)

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_u | ϕP_n | Ratio P_u |
|----------------|-----------|-------------------|-------|-------|------|--------|-------|------------|-------------|
| | fi | | ft | fit | | in^2 | K | K | ϕP_n |
| T1 | 330 - 320 | L1 3/4x1 3/4x3/16 | 3.788 | 3.642 | 81.4 | 0 360 | 1.853 | 17.567 | 0.105 1 |

 $^{{}^{1}}P_{u}/\phi P_{n}$ controls

Inner Bracing Design Data (Tension)

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| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 39 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation | Size | L | L_u | Kl/r | A | P_{u} | ϕP_n | Ratio P _u |
|----------------|-----------|-------------------|--------|--------|-------|-----------------|---------|------------|-------------------------|
| | ft | | ft | ft | | in ² | K | K | ϕP_n |
| T11 | 140 - 120 | L1 3/4x1 3/4x3/16 | 9.553 | 9.553 | 213.5 | 0.621 | 0.001 | 27.949 | 0.000 1 |
| T12 | 120 - 100 | L1 3/4x1 3/4x3/16 | 10,303 | 10.303 | 230.3 | 0.621 | 0.000 | 27.949 | 0.000 |

 $^{^{1}}P_{n}/\phi P_{n}$ controls

Section Capacity Table

| Section | Elevation | Component | Size | Critical | P | σP_{allow} | % | Pass |
|---------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|--------------------|--------------------|----------|--------------|
| No. | ft | Type | | Element | K | K | Capacity | Fail |
| TI | 330 - 320 | Leg | 1 3/4 | 1 | -6.285 | 35.601 | 17.7 | Pass |
| T2 | 320 - 300 | Leg | 2 | 21 | -46.767 | 54.509 | 85.8 | Pass |
| T3 | 300 - 280 | Leg | 2 1/2 | 48 | -100.906 | 120.108 | 84.0 | Pass |
| T4 | 280 - 260 | Leg | 2 3/4 | 75 | -153.975 | 161.540 | 95.3 | Pass |
| T5 | 260 - 240 | Leg | 3 | 102 | -202.065 | 208.347 | 97.0 | Pass |
| T6 | 240 - 220 | Leg | 3 1/4 | 129 | -246.561 | 260 312 | 94.7 | Pass |
| T7 | 220 - 200 | Leg | 3 1/2 | 154 | -289 647 | 317.273 | 91.3 | Pass |
| T8 | 200 - 180 | Leg | 3 3/4 | 181 | -332 344 | 379.106 | 87.7 | Pass |
| T9 | 180 - 160 | Leg | 3 3/4 | 208 | -374.664 | 379.106 | 98.8 | Pass |
| T10 | 160 - 140 | Leg | 4 | 235 | -417.384 | 445.717 | 93.6 | Pass |
| T11 | 140 - 120 | Leg | 4 1/4 | 262 | -454.552 | 517.034 | 87.9 | Pass |
| T12 | 120 - 100 | Leg | 4 1/4 | 301 | -496.036 | 517.034 | 95.9 | Pass |
| T13 | 100 - 80 | Leg | 4 1/2 | 340 | -537.178 | 593 004 | 90.6 | Pass |
| T14 | 80 - 60 | Leg | 4 1/2 | 379 | -578.095 | 593.004 | 97.5 | Pass |
| T15 | 60 - 40 | Leg | 4 3/4 | 418 | -618.726 | 673.582 | 91.9 | Pass |
| | 0.0 | 2.05 | 3 - 4 - 3 | 37.656 | 010.720 | 073.202 | 980(b) | |
| T16 | 40 - 20 | Leg | 4 3/4 | 457 | -658.963 | 673.582 | 97.8 | Pass |
| T17 | 20 - 0 | Leg | 5 | 496 | -698.572 | 758.734 | 92.1 | Pass |
| T1 | 330 - 320 | Diagonal | L1 3/4x1 3/4x3/16 | 8 | -3.240 | 14.893 | 21.8 | Pass |
| A137 | 230 320 | Diagonar | C. 3/4X1 3/4X3/10 | 96 | 2.2.40 | 14.025 | 37.2 (b) | |
| T2 | 320 - 300 | Diagonal | L1 3/4x1 3/4x3/16 | 25 | -4.707 | 10.354 | 45.5 | Pass |
| *** | 320 - 300 | Diagonar | LI STARI STARSTIO | 23 | | 10.33 | 56.3 (b) | |
| T3 | 300 - 280 | Diagonal | L1 3/4x1 3/4x3/16 | 49 | -7.198 | 7.765 | 92.7 | Pass |
| T4 | 280 - 260 | Diagonal | L2x2x3/16 | 77 | -7.901 | 8.951 | 88.3 | Pass |
| T5 | 260 - 240 | Diagonal | L2 1/2x2 1/2x3/16 | 104 | -8.061 | 13.885 | 58.1 | Pass |
| 13 | 200 - 240 | Diagonai | L2 1/2x2 1/2x3/10 | 104 | -0.001 | 13.003 | 65.5 (b) | 1 453 |
| T6 | 240 - 220 | Diagonal | L2 1/2x2 1/2x3/16 | 131 | -8.465 | 11.057 | 76.6 | Pass |
| T7 | 220 - 200 | Diagonal | L3x3x3/16 | 158 | -9.099 | 15.733 | 57.8 | Pass |
| 1.7 | 220 - 200 | Diagonal | L3X3X3/10 | 120 | -9.099 | 15.755 | 66.4 (b) | 1 053 |
| T8 | 200 - 180 | Diagonal | L3x3x3/16 | 185 | -9.937 | 13.000 | 76.4 | Pass |
| T9 | 180 - 160 | Diagonal | L3x3x3/16 | 212 | -10.562 | 10.877 | 97.1 | Pass |
| T10 | 160 - 140 | Diagonal | L3x3x1/4 | 239 | -11.446 | 12.050 | 95.0 | Pass |
| T11 | 140 - 120 | Diagonal | 2L2 1/2x2 1/2x3/16x3/8 | 267 | -13.207 | 17.635 | 74.9 | Pass |
| T12 | 120 - 100 | | | 306 | -13.564 | 15.641 | 86.7 | Pass |
| T13 | 100 - 80 | Diagonal | 2L2 1/2x2 1/2x3/16x3/8 2L3x3x3/16x3/8 | 345 | -14.379 | 23.170 | 62.1 | Pass |
| T14 | 80 - 60 | Diagonal Diagonal | 2L3x3x3/16x3/8 | 384 | -14.379 | 20.849 | 71.4 | Pass |
| T15 | 60 - 40 | | | 423 | -15.666 | 18.864 | 83.0 | Pass |
| T16 | | Diagonal | 2L3x3x3/16x3/8 | | -15.992 | 17.103 | 93.5 | |
| T17 | 40 - 20 20 - 0 | Diagonal Diagonal | 2L3x3x3/16x3/8 | 462 501 | -15.992 -16.469 | 20.903 | 78.8 | Pass Pass |
| T11 | | The state of the s | 2L3x3x1/4x3/8 | 71.574.57 | -7.879 | 8.097 | 97.3 | Pass |
| | 140 - 120 | Horizontal | 2L1 3/4x1 3/4x3/16x3/8 | 265 | | | | |
| T12 | 120 - 100 | Horizontal | 2L2x2x3/16x3/8 | 304 | -8.598 | 10.289 | 83.6 | Pass |
| T13 | 100 - 80 | Horizontal | 2L2 1/2x2 1/2x3/16x3/8 | 343 | -9.311 | 16.912 | 55.1 | Pass |
| T14 | 80 - 60 | Horizontal | 2L2 1/2x2 1/2x3/16x3/8 | 382 | -10.020 | 14.861 | 67.4 | Pass |
| T15 | 60 - 40 | Horizontal | 2L2 1/2x2 1/2x3/16x3/8 | 421 | -10.724 | 13.179 | 81.4 | Pass |

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

| Job | | Page |
|---------|-----------------------------------------|-------------------|
| | ATS #8657 - Mt Vernon (Site# KYLEX2044) | 40 of 40 |
| Project | | Date |
| | 330' SST/ 37.353261, -84.327297 | 09:06:59 10/22/20 |
| Client | | Designed by |
| | Harmoni (UNITI) Towers | JLandon |

| Section No. | Elevation ft | Component Type | Size | Critical Element | P K | ${{\mathscr OP}_{allow}} \ K$ | % Capacity | Pass Fail |
|----------------|-----------------|-------------------|------------------------|---------------------|---------|-------------------------------|------------------|--------------|
| T16 | 40 - 20 | Horizontal | 2L2 1/2x2 1/2x3/16x3/8 | 466 | -11.422 | 11.746 | 97.2 | Pass |
| T17 | 20 - 0 | Horizontal | 2L3x3x3/16x3/8 | 499 | -12.108 | 17.672 | 68.5 | Pass |
| TI | 330 - 320 | Top Girt | L1 3/4x1 3/4x3/16 | 4 | -1.839 | 10.980 | 16.7 19.3 (b) | Pass |
| T11 | 140 - 120 | Inner Bracing | L1 3/4x1 3/4x3/16 | 274 | -0.011 | 1.596 | 0.7 | Pass |
| T12 | 120 - 100 | Inner Bracing | L1 3/4x1 3/4x3/16 | 313 | -0.012 | 1.372 | 0.9 | Pass |
| T13 | 100 - 80 | Inner Bracing | L1 3/4x1 3/4x3/16 | 352 | -0.014 | 1.192 | 1.2 | Pass |
| T14 | 80 - 60 | Inner Bracing | L1 3/4x1 3/4x3/16 | 391 | -0.014 | 1.045 | 1.4 | Pass |
| T15 | 60 - 40 | Inner Bracing | L1 3/4x1 3/4x3/16 | 430 | -0.015 | 0.924 | 1.6 | Pass |
| T16 | 40 - 20 | Inner Bracing | L1 3/4x1 3/4x3/16 | 469 | -0.014 | 0.823 | 1.8 | Pass |
| T17 | 20 - 0 | Inner Bracing | L1 3/4x1 3/4x3/16 | 510 | -0.015 | 0.737 | 2.1 | Pass |
| | | | | | | | Summary | |
| | | | | | | Leg (T9) | 98.8 | Pass |
| | | | | | | Diagonal (T9) | 97.1 | Pass |
| | | | | | | Horizontal (T11) | 97.3 | Pass |
| | | | | | | Top Girt (T1) | 19.3 | Pass |
| | | | | | | Inner Bracing (T17) | 2.1 | Pass |
| | | | | | | Bolt Checks | 98.0 | Pass |
| | | | | | | RATING = | 98.8 | Pass |

Program Version 8.0.7.5

| EXHIBIT D |
|----------------------------------------------------|
| COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST |
| |

PSC Home

KY Public Service Commission

Master Utility Search

 Search for the utility of interest by using any single or combination of criteria.

Utility ID Utility Name

Address/City/Contact Utility Type

Status

 Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

 ✓ Active ✓

Search

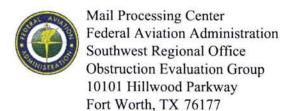
| | Utility ID | Utility Name | Utility Type | Class | City | State |
|------|---------------|----------------------------------------------------------|-----------------|-------|--------------------|-------|
| View | 4111300 | 2600Hz, Inc. dba ZSWITCH | Cellular | D | San Francisco | CA |
| View | 4108300 | Air Voice Wireless, LLC | Cellular | В | Bloomfield Hill | MI |
| View | 4110650 | Alliant Technologies of KY, L.L.C. | Cellular | D | Morristown | NJ |
| View | | ALLNETAIR, INC. | Cellular | С | West Palm Beach | FL |
| View | 44451184 | Alltel Corporation d/b/a Verizon Wireless | Cellular | Α | Lisle | IL |
| View | 4110850 | AltaWorx, LLC | Cellular | D | Fairhope | AL |
| View | 4107800 | American Broadband and Telecommunications Company | Cellular | D | Toledo | ОН |
| View | 4108650 | AmeriMex Communications Corp. | Cellular | D | Dunedin | FL |
| View | 4105100 | AmeriVision Communications, Inc. d/b/a Affinity 4 | Cellular | D | Virginia Beach | VA |
| View | 4110700 | Andrew David Balholm dba Norcell | Cellular | D | Buford | GA |
| View | 4105700 | Assurance Wireless USA, L.P. | Cellular | Α | Atlanta | GA |
| View | 4108600 | BCN Telecom, Inc. | Cellular | D | Morristown | NJ |
| View | 4106000 | Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug | Cellular | Α | San Diego | CA |
| View | 4110550 | Blue Casa Mobile, LLC | Cellular | D | Santa Barbara | CA |
| View | 4111050 | BlueBird Communications, LLC | Cellular | D | New York | NY |
| View | 4202300 | Bluegrass Wireless, LLC | Cellular | Α | Elizabethtown | KY |

| View | 4107600 | Boomerang Wireless, LLC | Cellular | D | Hiawatha | IA |
|------|----------|-----------------------------------------------------|----------|-----------------------------------------|---------------------|----|
| View | | BullsEye Telecom, Inc. | Cellular | | Southfield | MI |
| View | 4100700 | Cellco Partnership dba Verizon Wireless | Cellular | ۸ | Basking Ridge | NJ |
| View | 4106600 | Cintex Wireless, LLC | Cellular | *************************************** | | ΤX |
| View | 4111150 | Comcast OTR1, LLC | Cellular | С | Phoeniexville | PA |
| View | 4101900 | Consumer Cellular, Incorporated | Cellular | A | Portland | OR |
| View | 4106400 | Credo Mobile, Inc. | Cellular | A | San Francisco | CA |
| View | 4108850 | Cricket Wireless, LLC | Cellular | Α | San Antonio | TX |
| View | 4111500 | CSC Wireless, LLC d/b/a Altice Wireless | Cellular | D | Long Island City | NY |
| View | 10640 | Cumberland Cellular Partnership | Cellular | Α | Elizabethtown | KY |
| View | 4111650 | DataBytes, Inc. | Cellular | D | Rogers | AR |
| View | 4112000 | DISH Wireless L.L.C. | Cellular | С | Englewood | co |
| View | 4111200 | Dynalink Communications, Inc. | Cellular | С | Brooklyn | NY |
| View | 4111800 | Earthlink, LLC | Cellular | С | Atlanta | GA |
| View | 4101000 | East Kentucky Network, LLC dba Appalachian Wireless | Cellular | A | Ivel | KY |
| View | 4002300 | Easy Telephone Service Company dba Easy Wireless | Cellular | D | Ocala | FL |
| View | 4109500 | Enhanced Communications Group, LLC | Cellular | D | Bartlesville | ок |
| View | 4110450 | Excellus Communications, LLC | Cellular | D | Chattanooga | TN |
| View | 4105900 | Flash Wireless, LLC | Cellular | С | Concord | NC |
| View | 4104800 | France Telecom Corporate Solutions L.L.C. | Cellular | D | Herndon | VA |
| View | 4111750 | Gabb Wireless, Inc. | Cellular | D | Provo | UT |
| View | 4109350 | Global Connection Inc. of America | Cellular | D | Norcross | GA |
| View | 4102200 | Globalstar USA, LLC | Cellular | В | Covington | LA |
| View | 4112050 | GLOTELL US, Corp. | Cellular | С | Hallandale | FL |
| View | 4109600 | Google North America Inc. | Cellular | A | Mountain View | CA |
| View | 33350363 | Granite Telecommunications, LLC | Cellular | D | Quincy | MA |
| View | 10630 | GTE Wireless of the Midwest dba Verizon Wireless | Cellular | A | Basking Ridge | NJ |
| View | 4111350 | HELLO MOBILE TELECOM LLC | Cellular | D | Dania Beach | FL |
| View | 4103100 | i-Wireless, LLC | Cellular | В | Newport | KY |
| View | | IM Telecom, LLC d/b/a Infiniti Mobile | Cellular | D | Dallas | тх |
| View | 4111950 | J Rhodes Enterprises LLC | Cellular | С | Gulf Breeze | FL |
| View | 22215360 | KDDI America, Inc. | Cellular | D | Staten Island | NY |
| View | 10872 | Kentucky RSA #1 Partnership | Cellular | A | Basking Ridge | NJ |
| View | 10680 | Kentucky RSA #3 Cellular General | Cellular | A | Elizabethtown | KY |
| | | | | 1 | | |

| | | Utility Master Information Search | | | | |
|------|--------------|-----------------------------------------------------------------------|----------|----------|----------------------|----|
| View | 10681 | Kentucky RSA #4 Cellular General | Cellular | Α | Elizabethtown | KY |
| View | 4109550 | Kynect Communications, LLC | Cellular | D Dallas | | TX |
| View | 4111250 | Liberty Mobile Wireless, LLC | Cellular | D | Sunny Isles Beach | FL |
| View | 4111400 | Locus Telecommunications, LLC | Cellular | Α | Fort Lee | NJ |
| View | 4107300 | Lycamobile USA, Inc. | Cellular | D | Newark | NJ |
| View | 4108800 | MetroPCS Michigan, LLC | Cellular | Α | Bellevue | WA |
| View | 4111700 | Mint Mobile, LLC | Cellular | D | Costa Mesa | CA |
| View | 4109650 | Mitel Cloud Services, Inc. | Cellular | D | Mesa | ΑZ |
| View | 4111850 | Mobi, Inc. | Cellular | С | Honolulu | HI |
| View | 4202400 | New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS | Cellular | A | San Antonio | TX |
| View | 4000800 | Nextel West Corporation | Cellular | D | Overland Park | KS |
| View | 4001300 | NPCR, Inc. dba Nextel Partners | Cellular | D | Overland Park | KS |
| | | OnStar, LLC | Cellular | | Detroit | MI |
| View | 4110750 | Onvoy Spectrum, LLC | Cellular | D | Chicago | IL |
| View | 4109050 | Patriot Mobile LLC | Cellular | D | Irving | TX |
| View | 4110250 | Plintron Technologies USA LLC | Cellular | D | Bellevue | WA |
| View | d . | PNG Telecommunications, Inc. dba PowerNet Global Communications | Cellular | D | Cincinnati | ОН |
| View | 4107700 | Puretalk Holdings, LLC | Cellular | Α | Covington | GA |
| View | 1 | Q Link Wireless, LLC | Cellular | Α | Dania | FL |
| View | 4108700 | Ready Wireless, LLC | Cellular | С | Hiawatha | IA |
| View | 4110500 | Republic Wireless, Inc. | Cellular | Α | Raleigh | NC |
| View | 1 | Rural Cellular Corporation | Cellular | | Basking Ridge | נא |
| View | 4108550 | Sage Telecom Communications, LLC dba TruConnect | Cellular | D | Los Angeles | CA |
| View | 411141711 | SelecTel, Inc. d/b/a SelecTel Wireless | Cellular | D | Fremont | NE |
| View | | Spectrotel, Inc. d/b/a Touch Base Communications | Cellular | D | Neptune | נא |
| View | 4111450 | Spectrum Mobile, LLC | Cellular | | St. Louis | МО |
| View | | Sprint Spectrum, L.P. | Cellular | | Atlanta | GA |
| View | 4200500 | SprintCom, Inc. | Cellular | Α | Atlanta | GA |
| View | 4111600 | STX Group LLC dba Twigby | Cellular | D | Murfreesboro | TN |
| View | 4110200 | T C Telephone LLC d/b/a Horizon Cellular | Cellular | D | Red Bluff | CA |
| View | 4202200 | T-Mobile Central, LLC dba T- Mobile | Cellular | Α | Bellevue | WA |
| View | 4002500 | TAG Mobile, LLC | Cellular | D | Plano | TX |
| View | 4109700 | Telecom Management, Inc. dba Pioneer Telephone | Cellular | D | Portland | ME |
| View | 4107200 | Telefonica USA, Inc. | Cellular | D | Miami | FL |
| | | | 1 | | | 1 |

| View | 4112100 | Tello LLC | Cellular | С | Atlanta | GA |
|------|---------|--------------------------------|----------|---|------------------|----|
| View | 4108900 | Telrite Corporation | Cellular | D | Covington | GA |
| View | 4108450 | Tempo Telecom, LLC | Cellular | В | Atlanta | GA |
| View | 4109000 | Ting, Inc. | Cellular | Α | Toronto | ON |
| View | 4110400 | Torch Wireless Corp. | Cellular | D | Jacksonville | FL |
| View | 4103300 | Touchtone Communications, Inc. | Cellular | D | Whippany | NJ |
| View | 4104200 | TracFone Wireless, Inc. | Cellular | D | Miami | FL |
| View | 4002000 | Truphone, Inc. | Cellular | D | Durham | NC |
| View | 4110300 | UVNV, Inc. d/b/a Mint Mobile | Cellular | D | Costa Mesa | CA |
| View | 4110800 | Visible Service LLC | Cellular | D | Basking Ridge | ĽΝ |
| View | 4106500 | WiMacTel, Inc. | Cellular | D | Palo Alto | CA |
| View | 4110950 | Wing Tel Inc. | Cellular | D | New York | NY |

EXHIBIT E FAA



Issued Date: 05/14/2020

Kristy Hurst B+T Group Holdings, Inc. 1717 S. Boulder Ave. Suite 300 Tulsa, OK 74119

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:

Antenna Tower KYLEX2044 (Mt Vernon)

Location:

Mount Vernon, KY

Latitude:

37-21-11.70N NAD 83

Longitude:

84-19-38.30W

Heights:

1306 feet site elevation (SE)

342 feet above ground level (AGL)

1648 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

| | At least 10 days prior to start of construction (7460-2, Part 1) |
|----|-----------------------------------------------------------------------------------|
| _X | Within 5 days after the construction reaches its greatest height (7460-2, Part 2) |

This determination expires on 11/14/2021 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-11449-OE.

Signature Control No: 437235531-439978246

(DNE)

Stephanie Kimmel

Specialist

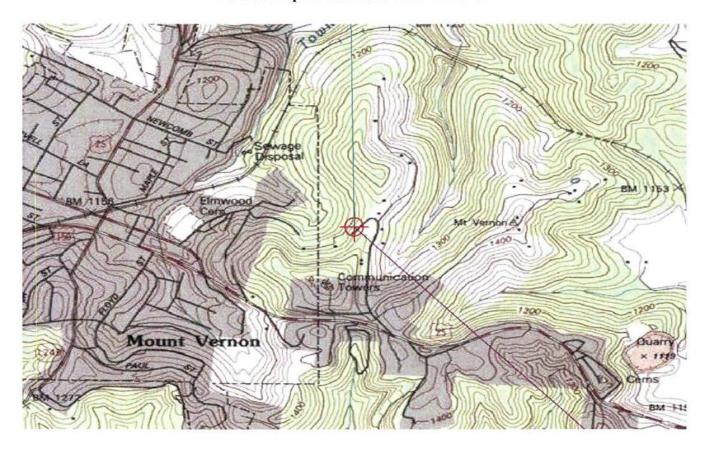
Attachment(s) Frequency Data Map(s)

cc: FCC

Frequency Data for ASN 2020-ASO-11449-OE

| LOW FREQUENCY | HIGH FREQUENCY | FREQUENCY UNIT | ERP | ERP UNIT |
|------------------|-------------------|-------------------|------|-------------|
| | | | | |
| 6 | 7 | GHz | 55 | dBW |
| 6 | 7 | GHz | 42 | dBW |
| 10 | 11.7 | GHz | 55 | dBW |
| 10 | 11.7 | GHz | 42 | dBW |
| 17.7 | 19.7 | GHz | 55 | dBW |
| 17.7 | 19.7 | GHz | 42 | dBW |
| 21.2 | 23.6 | GHz | 55 | dBW |
| 21.2 | 23.6 | GHz | 42 | dBW |
| 614 | 698 | MHz | 1000 | W |
| 614 | 698 | MHz | 2000 | W |
| 698 | 806 | MHz | 1000 | W |
| 806 | 901 | MHz | 500 | W |
| 806 | 824 | MHz | 500 | W |
| 824 | 849 | MHz | 500 | W |
| 851 | 866 | MHz | 500 | W |
| 869 | 894 | MHz | 500 | W |
| 896 | 901 | MHz | 500 | W |
| 901 | 902 | MHz | 7 | W |
| 929 | 932 | MHz | 3500 | W |
| 930 | 931 | MHz | 3500 | W |
| 931 | 932 | MHz | 3500 | W |
| 932 | 932.5 | MHz | 17 | dBW |
| 935 | 940 | MHz | 1000 | W |
| 940 | 941 | MHz | 3500 | W |
| 1670 | 1675 | MHz | 500 | W |
| 1710 | 1755 | MHz | 500 | W |
| 1850 | 1910 | MHz | 1640 | W |
| 1850 | 1990 | MHz | 1640 | W |
| 1930 | 1990 | MHz | 1640 | W |
| 1990 | 2025 | MHz | 500 | W |
| 2110 | 2200 | MHz | 500 | W |
| 2305 | 2360 | MHz | 2000 | W |
| 2305 | 2310 | MHz | 2000 | W |
| 2345 | 2360 | MHz | 2000 | W |
| 2496 | 2690 | MHz | 500 | W |

Verified Map for ASN 2020-ASO-11449-OE



TOPO Map for ASN 2020-ASO-11449-OE

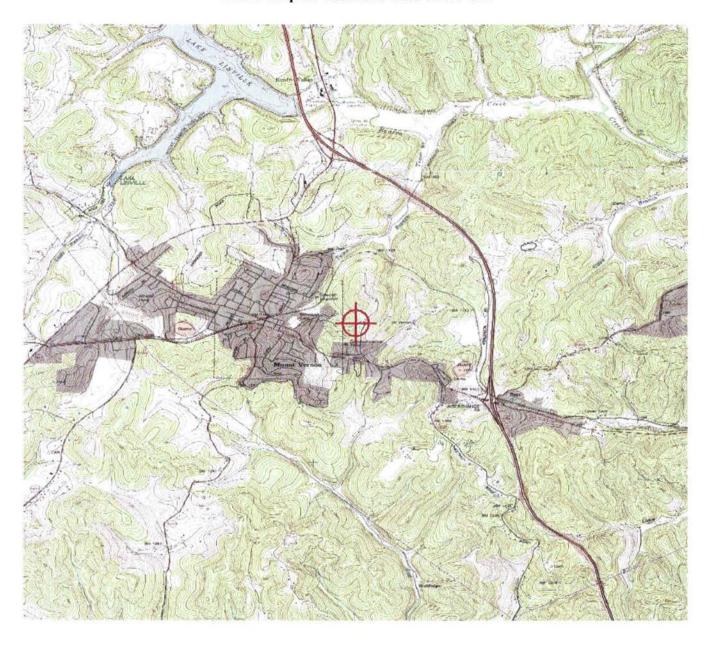


EXHIBIT F KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR Governor

Office of Audits, 200 Mero Street, 4th floor Frankfort, KY 40622 www.transportation.ky.gov 502-782-4043

APPROVAL OF APPLICATION

August 13, 2020

APPLICANT Uniti Towers B&T Group - Patricia Parr 10802 Executive Center Dr. Ste 300 Little Rock, AR 72211

SUBJECT: AS-ROCKCASTLE-RGA-2020-105

STRUCTURE:

Antenna Tower

LOCATION:

Mt. Vernon, KY

COORDINATES: 37° 21' 11.7" N / 84° 19' 38.3" W

HEIGHT:

342' AGL/1648' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 342' AGL/1648' AMSL Antenna Tower near Mt. Vernon, KY 37° 21' 11.7" N / 84° 19' 38.3" W.

This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit.

Dual - Red & Medium Intensity White Obstruction Lighting Required

Randall S. Royer

Randall S. Royer, Executive Director Office of Audits Acting Administrator Randall.Royer@ky.gov Jason.Salazar-Munoz@ky.gov



EXHIBIT G GEOTECHNICAL REPORT



GEOTECHNICAL INVESTIGATION REPORT

September 29, 2020

Prepared For:

B+T Group



Mount Vernon KYLEX2044

Proposed 330-Foot Self-Supporting Tower

Old U.S. Highway 25, Mount Vernon (Rockcastle County), Kentucky 40456 Latitude N 37° 21' 11.7" Longitude W 84° 19' 38.3"

> Delta Oaks Group Project GEO20-07031-08 Revision 0

geotech@deltaoaksgroup.com

Performed By:

Justin Brosseau, E.I.

Reviewed By:

300. CENSE O

BORRELLI

Joseph V. Borrelli, Jr., P.E.



DELTA OAKS GROUP

INTRODUCTION

This geotechnical investigation report has been completed for the proposed 330-foot self-supporting tower located on Old U.S. Highway 25 in Mount Vernon (Rockcastle County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located on a heavily wooded hill exhibiting a steep sloping topography from the east to west across the tower compound and subject property.

REFERENCES

- Survey Drawings, prepared by Point to Point Land Surveyors, dated February 5, 2020
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the auger refusal depth of 16.5 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Upon encountering auger refusal 5.0 feet of rock coring was conducted in accordance with ASTM D 2113. Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

Additional testing was performed on selected samples in accordance with ASTM D 7012 (Unconfined Compressive Strength – Rock). Laboratory data can be found in the Appendix of this report.

A boring plan portraying the spatial location of the boring in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.



DELTA OAKS GROUP

SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained during our field investigation.

FILL

Fill material was not encountered during the subsurface field investigation.

SOIL

The residual soil encountered in the subsurface field investigation began at the existing ground surface in the boring and consisted of sandy lean clay, silty clay, and clayey silt. The materials ranged from a stiff to very hard cohesion.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 16.5 feet bas.

ROCK

Rock was encountered during the subsurface investigation at a depth of 16.5 feet bgs. The rock can be described as moderately fractured, slightly weathered, hard limestone.

SUBSURFACE WATER

At the time of drilling, subsurface water was not encountered during the subsurface investigation. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Rockcastle County, Kentucky is 30 inches (2.5 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 1,750 ohmscm.



FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a shallow foundation and/or drilled shaft foundation for the proposed structure. The strength parameters presented in the following sections can be utilized for design of the foundation.

GENERAL SUBSURFACE STRENGTH PARAMETERS

| Boring | Depth (bgs) | uscs | Moist/Buoyant Unit Weight (pcf) | Phi Angle (degrees) | Cohesion (psf) |
|--------|-------------|-----------|------------------------------------|------------------------|----------------|
| | 0.0 - 1.5 | CL | 110 | 0 | 1,250 |
| | 1.5 – 4.0 | CL | 110 | 0 | 1,500 |
| | 4.0 - 6.5 | CL | 115 | 0 | 1,750 |
| B-1 | 6.5 – 9.0 | CL – ML | 120 | 0 | 2,750 |
| | 9.0 - 14.0 | CL - ML | 130 | 0 | 6,000 |
| | 14.0 – 16.5 | CL – ML | 125 | 0 | 4,250 |
| | 165 – 21.5 | LIMESTONE | 140 | 0 | 12,000 |

- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum
- The values provided for phi angle and cohesion should be considered ultimate.



SUBSURFACE STRENGTH PARAMETERS - SHALLOW FOUNDATION

| Boring | Dimensions (feet) | Depth (feet bgs) | Net Ultimate Bearing Capacity (psf) |
|--------|-------------------|------------------|-------------------------------------|
| | | 3.0 | 10,360 |
| | 50.50 | 4.0 | 12,520 |
| | 5.0 × 5.0 | 5.0 | 12,950 |
| | | 6.0 | 13,380 |
| | | 3.0 | 9,810 |
| | 100 100 | 4.0 | 11,660 |
| | 10.0 x 10.0 | 5,0 | 11,870 |
| | | 6.0 | 12,090 |
| | | 3.0 | 9,620 |
| B-1 | 150-150 | 4.0 | 11,370 |
| B-1 | 15.0 x 15.0 | 5.0 | 11,510 |
| | | 6.0 | 11,660 |
| | | 3.0 | 9,530 |
| | 20.0 20.0 | 4.0 | 11,230 |
| | 20.0 × 20.0 | 5.0 | 11,330 |
| | | 6.0 | 11,440 |
| | | 3.0 | 9,470 |
| | 25.0 × 25.0 | 4.0 | 11,140 |
| | 25.0 x 25.0 | 5.0 | 11,230 |
| | | 6.0 | 11,310 |

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- The bearing capacity can be increased by 1/3 for transient loading.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 2.5 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

| Soil Laye | ers (feet) | Moist Unit Weight | Phi Angle | Cohesion | PV | KP | Ph |
|-----------|------------|----------------------|-----------|----------|---------|------|----------|
| Тор | 0.0 | 110 | 0 | 1250 | 0.00 | 1.00 | 1250.00 |
| Bottom | 1.5 | 110 | 0 | 1250 | 165.00 | 1.00 | 1332.50 |
| Тор | 1.5 | 110 | 0 | 1250 | 165.00 | 1.00 | 1332.50 |
| Bottom | 2.5 | 110 | 0 | 1250 | 275.00 | 1.00 | 1387.50 |
| Тор | 2.5 | 110 | 0 | 1500 | 275.00 | 1.00 | 3275.00 |
| Bottom | 4.0 | 110 | 0 | 1500 | 440.00 | 1.00 | 3440.00 |
| Тор | 4.0 | 115 | 0 | 1750 | 440.00 | 1.00 | 3940.00 |
| Bottom | 6.5 | 115 | 0 | 1750 | 727.50 | 1.00 | 4227.50 |
| Тор | 6.5 | 120 | 0 | 2750 | 727.50 | 1.00 | 6227.50 |
| Bottom | 9.0 | 120 | 0 | 2750 | 1027.50 | 1.00 | 6527.50 |
| Тор | 9.0 | 130 | 0 | 6000 | 1027.50 | 1.00 | 13027.50 |
| Bottom | 10.0 | 130 | 0 | 6000 | 1157.50 | 1.00 | 13157.50 |



SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

| Boring | Depth (bgs) | Net Ultimate Bearing Capacity (psf) | Ultimate Skin Friction - Compression (psf) | Ultimate Skin Friction - Upliff (psf) |
|--------|-------------|-------------------------------------|-----------------------------------------------|------------------------------------------|
| | 0.0 – 3.0 | - | - | - |
| | 3.0 - 4.0 | 28,180 | 820 | 820 |
| | 4.0 - 7.0 | 37,000 | 960 | 960 |
| B-1 | 7.0 - 9.0 | 50,340 | 1,510 | 1,510 |
| | 9.0 – 14.0 | 42,180 | 2,400 | 2,400 |
| | 14.0 - 17.0 | 75,763 | 2,120 | 2,120 |
| | 17.0 – 21.5 | 79,460 | 4,800 | 4,800 |

- The top 3.0 feet of soil should be ignored due to the frost penetration and the potential soil disturbance during construction.
- The bearing capacity can be increased by 1/3 for transient loading.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



SUBSURFACE STRENGTH PARAMETERS - SUPPORT STRUCTURE FOUNDATION

| Boring | Depth (bgs) | Net Ultimate Bearing Capacity (psf) | Minimum Design Footing Width (ff) | Modulus of Subgrade Reaction (pci) |
|--------|-------------|-------------------------------------|--------------------------------------|---------------------------------------|
| | 2.0 | 9,340 | | 200 |
| D 1 | 3.0 | 10,120 | 0.0 | 300 |
| B-1 | 4.0 | 12,710 | 2.0 | 250 |
| | 5.0 | 13,620 | | 350 |

- Delta Oaks Group recommends utilizing a slab on grade in conjunction with continuous perimeter footings that bear on residual soil or properly compacted structural fill placed in accordance with the recommendations provided in the CONSTRUCTION section of this report.
- The slab on grade should be properly reinforced to prevent concrete cracking and shrinkage.
- The foundation should bear a minimum of 2.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table is presented on the following page. An appropriate reduction should be considered in accordance with local building code frost penetration depth.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



ULTIMATE PASSIVE PRESSURE VS. DEPTH - SUPPORT STRUCTURE FOUNDATION

| Soil Laye | ers (feet) | Moist Unit Weight | Phi Angle | Cohesion | PV | KP | Ph |
|-----------|------------|----------------------|-----------|----------|---------|------|----------|
| Тор | 0.0 | 110 | 0 | 1250 | 0.00 | 1.00 | 1250.00 |
| Bottom | 1.5 | 110 | 0 | 1250 | 165.00 | 1.00 | 1332.50 |
| Тор | 1.5 | 110 | 0 | 1250 | 165.00 | 1.00 | 1332.50 |
| Bottom | 2.5 | 110 | 0 | 1250 | 275.00 | 1.00 | 1387.50 |
| Тор | 2.5 | 110 | 0 | 1500 | 275.00 | 1.00 | 3275.00 |
| Bottom | 4.0 | 110 | 0 | 1500 | 440.00 | 1.00 | 3440.00 |
| Тор | 4.0 | 115 | 0 | 1750 | 440.00 | 1.00 | 3940.00 |
| Bottom | 6.5 | 115 | 0 | 1750 | 727.50 | 1.00 | 4227.50 |
| Тор | 6.5 | 120 | 0 | 2750 | 727.50 | 1.00 | 6227.50 |
| Bottom | 9.0 | 120 | 0 | 2750 | 1027.50 | 1.00 | 6527.50 |
| Тор | 9.0 | 130 | 0 | 6000 | 1027.50 | 1.00 | 13027.50 |
| Bottom | 10.0 | 130 | 0 | 6000 | 1157.50 | 1.00 | 13157.50 |

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CONSTRUCTION

SITE DEVELOPMENT

The proposed access road and tower compound should be evaluated by a Geotechnical Engineer, or their representative, after the removal or "cutting" of the areas to design elevation but prior to the placement of any structural fill material to verify the presence of unsuitable or weak material. Unsuitable or weak materials should be undercut to a suitable base material as determined by a Geotechnical Engineer, or their representative. Backfill of any undercut area(s) should be conducted in accordance with the recommendations provided in the STRUCTURAL FILL PLACEMENT section of this report.

Excavations should be sloped or shored in accordance and compliance with OSHA 29 CFR Part 1926, Excavation Trench Safety Standards as well as any additional local, state and federal regulations.

STRUCTURAL FILL PLACEMENT

Structural fill materials should be verified, prior to utilization, to have a minimum unit weight of 110 pcf (pounds per cubic foot) when compacted to a minimum of 95% of its maximum dry density and within plus or minus 3 percentage points of optimum moisture. Materials utilized should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. The Liquid Limit should be no greater than 40 with a Plasticity Index no greater than 20. Structural fill material should contain a maximum particle size of 4 inches with 20 percent or less of the material having a particle size between 2 and 4 inches. Backfill should be placed in thin horizontal lifts not to exceed 8 inches (loose) in large grading areas and 4 inches (loose) where small handheld or walk-behind compaction equipment will be utilized. The potential suitability of on-site materials to be utilized as fill should be evaluated by a Geotechnical Engineer, or their representative just prior to construction.

During construction structural fill placement should be monitored and tested. This should include at minimum, visual observation as well as a sufficient amount of in-place field density tests by a Geotechnical Engineer, or their representative. Materials should be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D 698 (standard Proctor method). Moisture contents should be maintained to within plus or minus 3 percentage points of the optimum moisture content.

SHALLOW FOUNDATIONS

Foundation excavation(s) should be evaluated by a Geotechnical Engineer, or their representative, prior to reinforcing steel and concrete placement. This evaluation should include visual observation to verify a level bearing surface; vertical side-walls with no protrusions, sloughing or caving; and the exposed bearing surface is free of deleterious material, loose soil and standing water. Excavation dimensions should be verified and testing performed on the exposed bearing surface to verify compliance with design recommendations. Bearing testing should be conducted in accordance with ASTM STP399 (Dynamic Cone Penetrometer). A 6-inch layer of compacted crushed stone should be installed prior to reinforcing steel and concrete placement. If subsurface water is encountered during excavation dewatering methods such as sump pumps or well points may be required.

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DRILLED SHAFT FOUNDATIONS

Drilled shaft foundations (caissons) are typically installed utilizing an earth auger to reach the design depth of the foundation. Specialized roller bits or core bits can be utilized to penetrate boulders or rock. The equipment utilized should have cutting teeth to result in an excavation with little or no soil smeared or caked on the excavation sides with spiral-like corrugated walls. The drilled shaft design diameter should be maintained throughout the excavation with a plumbness tolerance of 2 percent of the length and an eccentricity tolerance of 3 inches from plan location. A removable steel casing can be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Upon completion of the drilling and casing placement, loose soils and subsurface water greater than 3-inches in depth should be removed from the bottom of the excavation for the "dry" installation method. The drilled shaft installation should be evaluated by a Geotechnical Engineer, or their representative, to verify suitable end bearing conditions, design diameter and bottom cleanliness. The evaluation should be conducted immediately prior to as well as during concrete placement operations.

The drilled shaft should be concreted as soon as reasonably practical after excavation to reduce the deterioration of the supporting soils to prevent potential caving and water intrusion. A concrete mix design with a slump of 6 to 8 inches employed in conjunction with the design concrete compressive strength should be utilized for placement. Super plasticizer may be required to obtain the recommended slump range. During placement, the concrete may fall freely through the open area in the reinforcing steel cage provided it does not strike the reinforcing steel and/or the casing prior to reaching the bottom of the excavation. The removable steel casing should be extracted as concrete is placed. During steel casing removal a head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the bottom of the casing.

If subsurface water is anticipated and/or weak soil layers are encountered drilled shafts are typically installed utilizing the "wet" method by excavating beneath a drilling mud slurry. The drilling mud slurry is added to the drilled shaft excavation after groundwater has been encountered and/or the sides of the excavation are observed to be caving or sloughing. Additional inspection by a Geotechnical Engineer, or their representative, during the "wet" method should consist of verifying maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and just prior to concreting.

Concrete placement utilizing the "wet" method is conducted through a tremie pipe at the bottom of the excavation with the drilling mud slurry level maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the ground water elevation. The bottom of the tremie should be set one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie or a sliding plug introduced into the tremie before the concrete is recommended to reduce the potential contamination of the concrete by the drilling mud slurry. The bottom of the tremie must be maintained in the concrete during placement. Additional concrete should be placed through the tremie causing the slurry to overflow from the excavation in order to reduce the potential for the development of "slurry pockets" remaining in the drilled shaft.



QUALIFICATIONS

The design parameters and conclusions provided in this report have been determined in accordance with generally accepted geotechnical engineering practices and are considered applicable to a rational degree of engineering certainty based on the data available at the time of report preparation and our practice in this geographic region. All recommendations and supporting calculations were prepared based on the data available at the time of report preparation and knowledge of typical geotechnical parameters in the applicable geographic region.

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where existing fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary

Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by B+T Group. No warranty, expressed or implied, is presented.

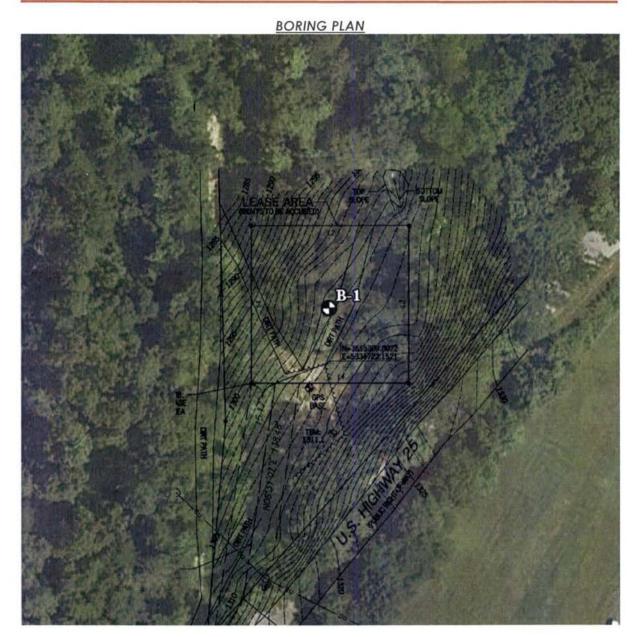
Delta Oaks Group appreciates the opportunity to be of service for this Geotechnical Investigation Report. Please do not hesitate to contact Delta Oaks Group with any questions or should you require additional service on this project.



APPENDIX









PROJECT NAME Mount Vernon

CLIENT B+T Group

PROJECT NUMBER GEO20-07031-08

Boring No.: B-1

PAGE 1 OF 1

PROJECT LOCATION Old Highway 25, Mount Vernon (Rockcastle County), Kentucky 40456

| <u> </u> | GROUP | T | | | | | | | | _ | | | | |
|---------------|-----------------------------------------------------------------------|-------------|---|----------------------------|------------------------------|------------|--------------|-----------|---------|--------------|-------------|---------|------|----|
| | E DRILLED : 9/23/2020 | | | OUND W | | | | | | | | | | |
| Į. | LING METHOD: Hollow Stem Auger | | Ā | | | | | | | t Encou | | | | |
| GRO | UND ELEVATION: 1311 | 1 | Ţ | AT EN | ID OF | DRIL | LING | i: - | - Not | Encour | itered | | | |
| BOR | ING DEPTH (ft): 21.5 | <u>L</u> . | Ā | AFTE | R DRII | LLING | 3 : - | – No | t Enc | ountere | d | | | |
| O DEPTH | MATERIAL DESCRIPTION | SAMPLE TYPE | | MATERIAL CLASSIFICATION | Pocket Penetrometer (tsf) | BLOWS 1st | BLOWS 2nd | BLOWS 3rd | N VALUE | 10 20 | ▲ SF | PT N V/ | | 90 |
| | SANDY LEAN CLAY (CL), stiff, mottled brown and gray, moist | X | | CL | | 3 | 5 | 5 | 10 | ↑ | | | | |
| - - | | | | | | 3 | 6 | 7 | 13 | | | | | |
| 5 | Brown | X | | | | 5 | 7 | 7 | 14 | \ | | | | |
| | SILTY CLAY (CL - ML), very stiff, grayish brown, with sand, moist | X | | CL-ML | | 8 | 10 | 11 | 21 | | | | | |
| 10 | CLAYEY SILT (CL - ML), very hard, grayish brown, with sand, moist | X | | CL-ML | | 11 | 50/4" | | 100 | | | | | 1 |
| 15 | Hard | X | | | | 14 | 16 | 18 | 34 | | L | | | |
| | LIMESTONE, light gray, moderately fractured, slightly weathered, hard | | | | | RQD 73% | REC 58% | | | | | | | |
| 20 | COMPRESSIVE STRENGTH 11,460 @ 18.7 | | | , | | | | | | | | | | |
| | Refusal at 16.5 feet. Bottom of borehole at 21.5 feet. | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |

EXHIBIT H DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

- Beginning at the Rockcastle County Judge Executive's Office, located at 205
 East Main Street, Mount Vernon, KY 40456, turn right onto East Main Street and
 travel approximately 623 feet.
- 2. Turn left onto Old US Hwy 25 and travel approximately 0.6 miles.
- 3. The site is located on the left. The site address is Old U.S. Hwy 25, Mt. Vernon, KY 40456.
- 4. The site coordinates are:
 - a. North 37 deg 21 min 11.74 sec
 - b. West 84 deg 19 min 38.27 sec



Prepared by: Chris Shouse Pike Legal Group 1578 Highway 44 East, Suite 6 P.O. Box 396 Shepherdsville, KY 40165-3069

Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I COPY OF REAL ESTATE AGREEMENT

UNITI Site ID: KYLEX2044 Uniti Site Name: Mt Vernon

FA No.: 15147586

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("Agreement"), dated as of the latter of the signature dates below (the "Effective Date"), is entered into by VADD Co., having a mailing address of P.O Box 125 Mt. Vernon, KY 40456, ("Landlord"), and Uniti Towers LLC, a Delaware limited liability company having a mailing address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock AR 72211 ("Tenant").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at Old US Hwy 25, in the City/Town of Mount Vernon, County of Rockcastle, State of Kentucky (collectively, the "**Property**"). Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. OPTION TO LEASE.

- (a) Landlord grants to Tenant an exclusive option (the "Option") to lease a certain portion of the Property containing approximately 10,000 square feet including the air space above such ground space, as described on attached Exhibit 1, (the "Premises"), for the placement of a Communication Facility.
- (b) During the Option Term, and during the Term, 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, radio frequency testing 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 and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "Government Approvals"), initiate the ordering and/or scheduling of necessary utilities, 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, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. 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 inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted.
- (c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of within thirty (30) business days after the Effective Date. The Option may be exercised during an initial term of one (1) year commencing on the Effective Date (the "Initial Option Term") which term may be renewed by Tenant for an additional one (1) year (the "Renewal Option Term") upon written notification to Landlord and the payment of an additional no later than five (5) days prior to the expiration date of the Initial Option Term.

The Initial Option Term and any Renewal Option Term are collectively referred to as the "Option Term."

- (d) The Option may be sold, assigned or transferred at any time by Tenant without the written consent of Landlord. Upon notification to Landlord of such sale, assignment, or transfer, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.
- (e) During the Option Term, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, this Agreement will terminate, and the parties will have no further liability to each other.

- (f) If during the Option Term, or during the Term if the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the "Surrounding Property,") or in the event of a threatened foreclosure, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.
- 2. PERMITTED USE. Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure ("Structure"), associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "Communication Facility"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "Permitted Use"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on Exhibit 1 will not be deemed to limit Tenant's Permitted Use. If Exhibit 1 includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of Exhibit 1. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of the Surrounding Property as may reasonably be required during construction and installation of the Communication Facility. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, install a generator and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted Use including the right to construct a fence around the Premises or equipment, install warning signs to make individuals aware of risks, install protective barriers, install any other control measures reasonably required by Tenant's safety procedures or applicable law, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes) or relocate the Communication Facility within the Premises at any time during the Term. Tenant will be allowed to make such alterations to the Property in order to ensure that the Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, in a manner that requires an additional portion of the Property (the "Additional Premises") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then-current per square foot rental rate charged by Landlord to Tenant times the square footage of the Additional Premises. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

TERM.

- (a) The initial lease term will be five (5) years (the "Initial Term"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "Term Commencement Date"). The Initial Term will terminate on the fifth (5th) anniversary of the Term Commencement Date.
- (b) This Agreement will automatically renew for seventeen (17) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "Extension Term"), upon the same terms and

conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("Annual Term") until terminated by either party by giving to the other party written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent during such Annual Terms shall be

If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "Holdover Term"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the "Term".

4. RENT.

- (a) Commencing on the first day of the month following the date that Tenant commences construction (the "Rent Commencement Date") Tenant will pay Landlord on or before the fifth (5th) day of each calendar month in advance, (the "Rent"), at the address set forth above. In any partial month occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.
- (b) In year two (2) of the Initial Term, and each year thereafter, including throughout any Extension Terms exercised, the monthly Rent will increase by paid during the previous year, effective the first day of the month in which the anniversary of the Term Commencement Date occurs..
- (c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

APPROVALS.

- (a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for the Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for the Permitted Use and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.
- (b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.
- (c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.
- 6. **TERMINATION.** This Agreement may be terminated, without penalty or further liability, as follows:
- (a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 15 of this Agreement after the applicable cure periods;
- (b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain, or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter

intended by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable;

- (c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;
- (d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or
- (e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: Section 5 Approvals, Section 6(a) Termination, Section 6(b) Termination, Section 6(c) Termination, Section 6(d) Termination, Section 11(d) Environmental, Section 18 Condemnation or Section 19 Casualty.
- 7. INSURANCE. During the Option Term and throughout the Term, Tenant will purchase and maintain in full force and effect such general liability policy as Tenant may deem necessary. Said policy of general liability insurance will at a minimum provide a combined single limit of Notwithstanding the foregoing, Tenant shall have the right to self-insure such general liability coverage.

8. INTERFERENCE.

- (a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.
- (b) Landlord will not grant, after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.
- (c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.
- (d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

9. INDEMNIFICATION.

- (a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, invitees, agents or independent contractors.
- (b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees,

invitees agents or independent contractors, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

WARRANTIES.

- (a) Each of Tenant and Landlord (to the extent not a natural person) acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority or capacity, as applicable, to enter into this Agreement and bind itself hereto through the party or individual set forth as signatory for the party below.
- (b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises without hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest in the form attached hereto as Exhibit 10(b).

11. ENVIRONMENTAL.

- (a) Landlord represents and warrants, except as may be identified in **Exhibit 11** attached to this Agreement, (i) the Property, as of the Effective Date, is free of hazardous substances, including asbestoscontaining materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.
- (b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("Claims"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the Effective Date or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses,

costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.

- (c) The indemnification provisions contained in this Section 11 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Section 11 will survive the expiration or termination of this Agreement.
- (d) In the event Tenant becomes aware of any hazardous materials on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party, Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.
- 12. ACCESS. At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("Access") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in Exhibit 1, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as Exhibit 12; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay per day in consideration of Tenant's damages until Tenant, as liquidated damages and not as a penalty, Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.
- 13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenantable condition, subject to reasonable wear and tear and damage from the elements. Landlord will be responsible for maintenance of landscaping on the Property, including any landscaping installed by Tenant as a condition of this Agreement or any required permit.

- (b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to sub-meter from Landlord. When sub-metering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Tenant shall reimburse Landlord for such utility usage at the same rate charged to Landlord by the utility service provider. Landlord further agrees to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within sixty (60) days of receipt of the usage data and required forms. Landlord shall maintain accurate and detailed records of all utility expenses, invoices and payments applicable to Tenant's reimbursement obligations hereunder. Within fifteen (15) days after a request from Tenant, Landlord shall provide copies of such utility billing records to the Tenant in the form of copies of invoices, contracts and cancelled checks. If the utility billing records reflect an overpayment by Tenant, Tenant shall have the right to deduct the amount of such overpayment from any monies due to Landlord from Tenant.
- (c) As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.
- (d) Tenant will have the right to install utilities, at Tenant's expense, and to improve present utilities on the Property and the Premises. Landlord hereby grants to any service company providing utility or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as such service companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or service company's request, Landlord will execute a separate recordable easement evidencing this grant, at no cost to Tenant or the service company.

15. DEFAULT AND RIGHT TO CURE.

- (a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.
- (b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will

have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.

- 16. <u>ASSIGNMENT/SUBLEASE</u>. Tenant will have the right to assign this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement to the extent of such assignment.
- 17. NOTICES. All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows:

If to Tenant:

Uniti Towers LLC

Attn: Real Estate

10801 Executive Center Drive Shannon Building, Suite 100 Little Rock AR 72211

501.458.4724

CC:

Uniti Towers LLC

ATTN: Keith Harvey, Deputy General Counsel

10802 Executive Center Drive Benton Building, Suite 300 Little Rock AR 72211

For Emergencies:

NOC 1-844-398-9716

If to Landlord:

VADD Co. C/O Jerry Cox P.O Box 125

Mt. Vernon, KY 40456 Telephone: (606) 256-5111

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party as provided herein.

- 18. <u>CONDEMNATION.</u> In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within twenty-four (24) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a *pro rata* basis.
- 19. <u>CASUALTY.</u> Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within twenty-four (24) hours of the casualty or other harm. If any part of the Communication Facility or Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will

be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a *pro rata* basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of this Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

- 20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.
- 21. TAXES. (a) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (y) any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21 and (z) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.
- (b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.
- (c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other

proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

- (d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.
- (e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).
- (f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17. Promptly after the Effective Date of this Agreement, Landlord shall provide the Notice address set forth in Section 17 to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.
- (g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY.

- (a) Landlord may sell the Property or a portion thereof to a third party, provided: (i) the sale is made subject to the terms of this Agreement; and (ii) if the sale does not include the assignment of Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.
- (b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this Section 22(b) to Tenant. Until Tenant receives all such documents, Tenant's failure to make payments under this Agreement shall not be an event of default and Tenant reserves the right to hold payments due under this Agreement.
 - i. Old deed to Property
 - ii. New deed to Property
 - iii. Bill of Sale or Transfer
 - iv. Copy of current Tax Bill
 - v. New IRS Form W-9
 - vi. Completed and Signed Tenant Payment Direction Form
 - vii. Full contact information for new Landlord including phone number(s)
- (c) Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communication facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's

prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communication facility or equipment.

- (d) The provisions of this Section shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.
- 23. RIGHT OF FIRST REFUSAL. Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments associated with this Agreement or an offer to purchase an easement with respect to the Premises ("Offer"), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the financial terms of the Offer and agree in writing to match such terms of the Offer. Such writing shall be in the form of a contract substantially similar to the Offer, but Tenant may assign its rights to a third party. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the ninety (90) day period, Landlord may sell, convey, assign or transfer such property interest in or related to the Premises pursuant to the Offer, subject to the terms of this Agreement. If Landlord attempts to sell, convey, assign or transfer such property interest in or related to the Premises without complying with this Section 23, the sale, conveyance, assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section 23. Tenant's failure to exercise the right of first refusal shall not be deemed a waiver of the rights contained in this Section 23 with respect to any future proposed conveyances as described herein.

24. MISCELLANEOUS.

- (a) Amendment/Waiver. This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.
- (b) Memorandum. Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as Exhibit 24b. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease.
- (c) Limitation of Liability. Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.
- (d) Compliance with Law. Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations ("Laws") applicable to Tenant's use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord's ownership and use of the Property and any improvements on the Property.
- (e) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.
- (f) Entire Agreement. This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys,

and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

- (g) Governing Law. This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.
- (h) Interpretation. Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.
- (i) Affiliates. All references to "Tenant" shall be deemed to include any Affiliate of Uniti Towers LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant pursuant to this Agreement. "Affiliate" means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.
- (j) Survival. Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.
- (k) W-9. As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including any change in Landlord's name or address.
- (I) Execution/No Option. The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.
- (m) Attorneys' Fees. In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.
- (n) WAIVER OF JURY TRIAL. EACH PARTY, TO THE EXTENT PERMITTED BY LAW, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING UNDER ANY THEORY OF LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR THE TRANSACTIONS IT CONTEMPLATES.
- (o) Incidental Fees. Unless specified in this Agreement, no unilateral fees or additional costs or expenses are to be applied by either party to the other party, including review of plans, structural analyses, consents, provision of documents or other communications between the parties.
- (p) Further Acts. Upon request, Landlord will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as Tenant may request from time

to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Agreement and all transactions and permitted use contemplated by this Agreement.

(q) Force Majeure. No party shall be liable or responsible to the other party, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term of this Agreement, when and to the extent such failure or delay is caused by or results from acts beyond the affected party's reasonable control, including, without limitation: (a) acts of God; (b) flood, fire, earthquake, or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot, or other civil unrest; (d) government order or law; (e) embargoes, or blockades in effect on or after the date of this Agreement; (f) action by any governmental authority; (g) national or regional emergency; and (h) strikes, labor stoppages or slowdowns, or other industrial disturbances. The party suffering a force majeure event shall give written notice to the other party, stating the period of time the occurrence is expected to continue and shall use diligent efforts to end the failure or delay and ensure the effects of such force majeure event are minimized.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the last date written below.

"LANDLORD"

VADD Co.

Name Jerry Cox

Its: Sole officer and Director

Date: 2 april 2020

"TENANT"

Uniti Towers LLC

Print Name

Its:

Date:

[ACKNOWLEDGMENTS APPEAR ON NEXT PAGE]

TENANT ACKNOWLEDGMENT

| COUN | NTY C | F PU | LASKI | | | | | | |
|------|-------|------|----------|----|------|-------|--------|----|----|
| 0 | On | the | 24th day | of | Anal | 20.20 | before | me | ne |

On the 24th day of April , 20 20; before me personally appeared who acknowledged under oath that he she is the of Uniti Towers LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.

| April | 123723 | One | 123723 |

CORPORATE ACKNOWLEDGMENT

STATE OF Kentucky
COUNTY OF Rockcartle

STATE OF ARKANSAS

I CERTIFY that on Aoci 2, 2020, Jerry J Cox [name of representative] personally came before me and acknowledged under oath that he or she:

- (a) is the Sole Officer and Director [title] of VADD Co. [name of corporation], the corporation named in the attached instrument,
 - (b) was authorized to execute this instrument on behalf of the corporation and
 - (c) executed the instrument as the act of the corporation.

Notary Public: State of Ky@ Large My Commission Expires: 12-16-22

EXHIBIT 1

DESCRIPTION OF PREMISES

Page 1 of 4

to the Option and Lease Agreement dated April 20 by and between VADD Co., as Landlord, and Uniti Towers LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

Property located in Rockcastle County, Kentucky

The following described real property located in Rockcastle County, Kentucky, to wit:

Beginning on an iron pin in the North right-of-way line of Old U.S. Highway 25, corner to Shephard; thence with Shephard N 07 degrees 00' 00" W 156 feet to a point, corner to Shephard and Cox; thence with Cox S 83 degrees 04' 24" W, 229.88 feet to a point corner to Cox; thence with Cox the following calls along an existing roadway; S 02 degrees 00' 00" W, 266.00 feet and S 08 degrees 30' 00" W, 140.00 feet to a point in the right-of-way of Old U.S. Highway 25; thence with said Highway N 45 degrees 00' 00" E, 392 feet to the point of beginning and containing 1 1/2 acres, more or less.

AND BEING the same property conveyed to VADD Co. from Ashland Lodge 640 F&AM by Deed of Conveyance dated November 27, 2001 and recorded November 27, 2001 in Deed Book 187, Page 303.

Tax Parcel No. 046-00-001.05

The Premises are described and/or depicted as follows:

LEASE AREA

All that tract or parcel of land lying and being in Rockcastle County, Kentucky, and being a part of the lands of Vadd Co. as recorded in Deed Book 187, Page 303, Rockcastle County records, and being more particularly described as follows:

To find the point of beginning, COMMENCE at a point on the northerly right-of-way line of Old U.S. Highway 25, said point having a Kentucky Grid North, NAD 83, Single Zone Value of N: 3655172.8593 E: 5334701.6398 and from whence a 1/2-inch open top pipe found on the southerly right-of-way line of Old U.S. Highway 25 bears, South 30°34′56″ East, 123.31 feet; thence leaving said right-of-way line and running, North 08°31′07″ East, 138.48 feet to a point on the Lease Area, said point having a Kentucky Grid North, NAD 83, Single Zone Value of N: 3655309.8072 E: 5334722.1521; thence running along said Lease Area line, North 90°00′00″ West, 15.17 feet to a point and the true POINT OF BEGINNING; Thence, North 00°00′00″ East, 100.00 feet to a point; Thence, North 90°00′00″ East, 100.00 feet to a point; Thence, North 90°00′00″ West, 100.00 feet to a point and the POINT OF BEGINNING.

Bearings based on Kentucky Grid North, NAD 83, Single Zone.

Said tract contains 0.2296 acres (10,000 square feet), more or less, as shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated February 6, 2020.

30' INGRESS-EGRESS & UTILITY EASEMENT

Together with a 30-foot wide (15 feet each side of centerline) Ingress-Egress & Utility Easement lying and being in Rockcastle County, Kentucky, and being a part of the lands of Vadd Co. as recorded in Deed Book 187, Page 303, Rockcastle County records, and being described by the following centerline data:

BEGINNING at a point on the northerly right-of-way line of Old U.S. Highway 25, said point having a Kentucky Grid North, NAD 83, Single Zone Value of N: 3655172.8593 E: 5334701.6398 and from whence a 1/2-inch open top pipe found on the southerly right-of-way line of Old U.S. Highway 25 bears, South 30°34'56" East, 123.31 feet; Thence leaving said right-of-way line and running, North 08°31'07" East, 138.48 feet to the ENDING at a point on the Lease Area, said point having a Kentucky Grid North, NAD 83, Single Zone Value of N: 3655309.8072 E: 5334722.1521.

Bearings based on Kentucky Grid North, NAD 83, Single Zone.

As shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated February 6, 2020.

Notes:

- 1. THIS EXHIBIT MAY BE REPLACED BY A LAND SURVEY AND/OR CONSTRUCTION DRAWINGS OF THE PREMISES ONCE RECEIVED BY TENANT.
- 2. ANY SETBACK OF THE PREMISES FROM THE PROPERTY'S BOUNDARIES SHALL BE THE DISTANCE REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES.
- WIDTH OF ACCESS ROAD SHALL BE THE WIDTH REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES, INCLUDING POLICE AND FIRE DEPARTMENTS.
- 4. THE TYPE, NUMBER AND MOUNTING POSITIONS AND LOCATIONS OF ANTENNAS AND TRANSMISSION LINES ARE ILLUSTRATIVE ONLY. ACTUAL TYPES, NUMBERS AND MOUNTING POSITIONS MAY VARY FROM WHAT IS SHOWN ABOVE.

LEGINO THE PROPERTY OF MICHIGAN THE PROPER LEGEND

PARENT PARCEL

OWNER: WICO CO.

SITE ADDRESS: OLD U.S. HIGHWAY 25, NT. VERNON, KY 40456

PARCEL D: 046-00-001.05

AVEA: 1.5 ACRES FER TAX ASSESSORS

ZONED: NO ZONENO

ALL ZURBIG REGISALTION SHOULD BE VERFED WITH THE PROPER ZORBIG OFFICIALS

N/F RAE L. COX, TRUSTEE PARCEL ID: 046-00-001 DB 230 PG 681

C/L 30' INGRESS-EGRESS & UTILITY EASEMENT

D

RETURENCE: BOOK 187 PAGE 303

GPS NOTES

THE FOLLOWING GPS STATISTICS UPON WHICH THIS SUMEY IS INGED HIME BEEN PRODUCED AT THE 93% CONFIDENCE LEVEL:

N/F MALCOLM SHEPHERD PARCEL ID: 046-00-002

PARENT PARCEL VADD CO. PARCEL ID: 046-00-001.05

DB 187 PG 303

LEASE AREA (SEE SHEET 2 FOR DETAIL) POSITIONAL ACCURACY D.00 PLT 6/RDQ D.35 FEET 6/RDQ
THY, OF 6/97 PELD PROCESSARE, OR MAY POSITION HERD MICH.
THY, OF 6/97 PELD PROCESSARE, OR MAY POSITION HERD MICH.
DATES OF SAMPLY D.02/MG D

SITE

STATE of KENTUCKY G. DARRELL TAYLOR 4179 LICENSED PROFESSIONAL LAND SURVEYOR

NO. DATE REVISION

1 2/25/20 ADDED TITLE - JSD

4497

GENERAL NOTES

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

PER THE FEMA FLOCOPLAIN MAPS, THE SITE IS LOCATED IN AN AVEA DESKINATED AS ZONE X, DOMBALHTY PANEL NO. ; 21203002000 DATED: 08/63/2009

ANY UNCORRIGHOUT UTLITES SHOWN HAVE BEDY LOCATED FROM ABONE GROUND FELD SUMMY REQUIRED. THE SUMMY ROUGH ON QUARANTESS THAT ANY UNCORRECULAR UTLITIES SHOWN GROWNERS, ALL SUM UTULITIES SHOW AND UTILITIES THE PLANE OF THE PLANE OF A PARTICULAR OF THE PLANE OF THE PLAN

VICINITY MAP

NOT TO SCALE

* THE SPLOTE PURPOSE SUBJECT IS FOR THE LUASED PRESIDENT AND LOSS DESCRIPTION. THIS SPECIFIC PURPOSE SUBJECT IS FOR THE LUASED PRESIDENT AND LOSS DESCRIPTION OF THE THROUGH DEPOSE OF THE THROUGH DEPOSED.

EQUIPMENT USED FOR ANOULAR & LINEAR MEASUREMENTS: LEXATIPS 1200 ROBOTIC & GEOMAX ZENTH 35, IDATE OF LAST FIELD WIST: 02/03/2020]

The 1' contours and spot elevations shown on this specific purpose elevely are adjusted to not be datum computed using geodelic and have a vertical accuracy of α 3', contours outside the baredate site area are introducte.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH PIAD BIS NY SPIGLE ZONE.

NO WETLAND ANEAS HIGH BEEN INVESTIGATED BY THIS SPECIFIC PLIPPOSE SLEWLY.

ALL ZUMING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZUMING OFFICIALS.

LAND SURVEYORS 100 Governors Trace, Ste. 103 Peachtree City, GA 30269 (p) 678.565.4440 (f) 678.565.44 (w) pointtopointsurvey.com TO POINT POINT



SPECIFIC PURPOSE SURVEY PREPARED FOR



MT. VERNON SITE NO.

KYLEX2044 ROCKCASTLE COUNTY, KENTUCKY

DIE CHE CENCER CO

APPROVED: D. MILLER DATE: FEBRUARY 5, 2020



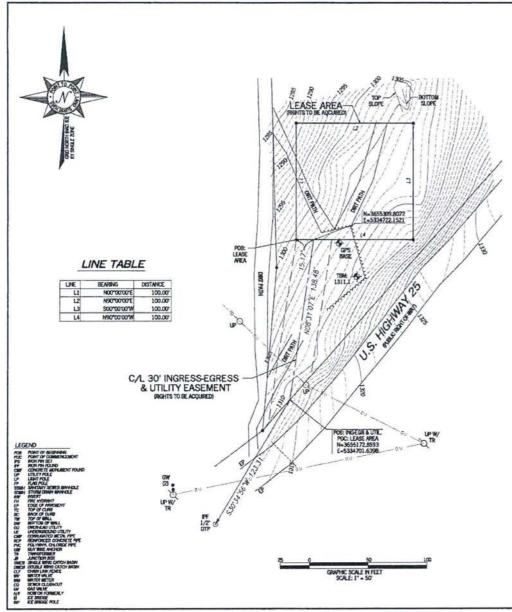
GRAPHIC SCALE IN FEET SCALE: 1' = 100'

(SURPLY HOT WILD WITHOUT SHEET 2 OF 2)

Call before you dig per 1884 200990

SURVEYOR'S CERTIFICATE L. Q. DAMBELL TAYLOR, A RENTLONY PROFESSIONAL LAND SLARETOR, CORFEY HAT THE AMERICAN SPECIAL RESIDENCE STATE STORM AN ACTUAL PILL SLAREY MADE CHARRY RESIDENCE OF SENDON TRADESIS WITH SIDE SHAPE VALUE CORRESPONDED TO THE TRADESIS OF CONTROL STATE OF CONTROL STAT

Know what's below.



SITE INFORMATION

LEASE AREA - 10,000 SOUWIE FEET 10,2296 ACRESI

LATITUDE = 37"21"1.1.74" (NAD 83) (37.353261") LONGITUDE = 64"19"38.27" (NAD 83) (64.327297") AT CONTER LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 1305.6" A.M.S.L.

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE (15 FEET EACH SIDE OF CENTERLINE) INGRESS-EGRESS & UTILITY EASEMENT LYING AND BEING IN ROCKCASTLE COUNTY, KEYTUCKY, AND BEING A PART OF THE LANDS OF YADO CO. AS RECORDED IN DEED BOOK 187, PAGE 303, ROCKCASTLE COUNTY RECORDS, AND BEING DESCRIBED BY THE FOLLOWING

BEGINNING AT A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N: 3655172,8593 E: 5334701,6398 AND FROM WHENCE A 1/24NCH OPEN TOP PIPE FOUND ON THE SOUTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HIGHWAY 25 BEARS, SOUTH 30°34°56° EAST, 123.31 FEET; THENCE LEAVING SAID RIGHT OF WAY LINE AND RUNNING, NORTH 08°31'07' EAST, 138.48 FEET TO THE ENDING AT A POINT ON THE LEASE AREA, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N: 3655309.8072 E: 5334722.1521.

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE.

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN ROCKCASTLE COUNTY, KENTUCKY, AND BEING A PART OF THE LANDS OF VADO CO. AS RECORDED IN DEED BOOK 187, PAGE 303, ROCKCASTLE COUNTY RECORDS, AND

TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT ON THE NORTHERLY RIGHT-OF-WAY LINE OF OLD U.S. HORINOT PE ANN DE BESTIMMEN A RETRICORY OF DO NORTH, NO 83, SINGE TOOL VALUE OF N. 3855172.8593 E: 5334701.6596 AND FROM WHENCE AT JZENICH OFFIN TOP PIET DITTON ON THE SOUTHERLY RIGHT-OFFINY LIKE OF OLD ULS. MIGHNAY 25 BENAN, SOUTH 30°3456 EAST, 123.31 FEBRUAR LEWYNO SAID RIGHT-OFFINY LIKE NO RUNNING, NORTH 05°3107 EAST, 123.48 FEET TO A FORM TO A TOWN ON THE LEXAS AREA, SAID POINT HAMMS A KERTUCKY.

GIBD NORTH, AND 83, SINGE CONE VALUE OF TO 3655030.98072 E: 5534722.1521. THENCE RUNNING A LONG SAID. LEASE AREA LINE, NORTH 90"00"00" WEST, 15.17 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, NORTH 90"00"00" EAST, 100.00 FEET TO A POINT; THENCE, NORTH 90"00"00" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH DO'OO'OO' WEST, 100.00 FEET TO A POINT; THENCE, NORTH 90'00'00' WEST, 100.00 FEET TO A POINT AND THE POINT OF REGINNING

BEARINGS BASED ON KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2296 ACRES (10,000 SQUARE FEET), MORE OR LESS

TITLE EXCEPTIONS

THIS BLAVEY WAS COMPLETED WITH THE AID OF TITLE WORK PROPARED BY FOOLITY MITCHAN TITLE RESEARCH COMPANY, ISSUE ONTO OF FEBRUARY 18, 2000, DOING OF SEARCH RESMAN FAMIL 13, 1996 AND CHTENDARD THRUSH PERBUARY 11, 2000, BEND FOREN FOR 30002325 FOR THE PROPERT PRINCES, TO DETERMINE THE WINCTS OF ENSITHER TITLE DISCIPLINES.

DEED OF EASEMENT IN FAMOR OF THE CITY OF MIT. WERNION SET FORTH IN INSTRUMENT RECOGNISED ON PERMANY 4, 2002 IN DEED BOOK 188, PAGE 131.

THIS TIEM CANNOT BE DETERMINED IF IT IS APPLICABLE TO THE PARENT PARCEL BECAUSE THE DESCRIPTION OF THIS CASSIMENT IS MIGUE AND THERETOKE WE ARE NOT ABLE TO ASCERTAN THE EXACT LOCATION THEREOFY.

PARENT PARCEL

PER ORDER NO: 30902325

PROPERTY LOCATED IN ROCKCASTLE COUNTY, KENTUCKY

THE FOLLOWING DESCRIED REAL PROPERTY LOCATED IN ROCKOASTLE COUNTY, KENTUCKY, TO MIT.

ISCORPED OF AN EACH PER IN THE FORTH RESISTORIES THAT OF CLU LES FORMER'S, CORRECT TO RETENED, THESE WITH SERVINGE FOR DISCUSSES OF OW 19 SET TO A PRINCE FORMER TO REFERRED AND COR. THESE OWN CARE SE DESIGNED OF ZET WE ZER AN PLET TO A FORM COPPER TO CORP. THESE WITH CORD. THE FORLING WILL SELECT AN EXCEPT WITH REFORMER OF CORP. OF DEDICES OF OWN IS AUGUST THE FORM SO DE OFFICES OF OWN IS, LABOUR THE A WAY IN THE ANTI-TIME AND RESISTANCE OF CORP.

TAX PMRCEL NO. 045-00-001-05

STATE of KENTUCKY G. DARRELL TAYLOR 4179 LICENSED PROFESSIONAL LAND SURVEYOR

| NO. | DATE | REVISION |
|-----|---------|-------------------|
| NO. | 2/25/20 | ADDED TITLE - JSD |

4497

100 Governors Trace, Ste. 103 Peachtree City, GA 30269 (p) 678.565.4440 (f) 678.565.4 (w) pointtopointsurvey.com SURVEYORS POINT 0 POINT LAND



SPECIFIC PURPOSE SURVEY PREPARED FOR



MT. VERNON SITE NO.

KYLEX2044 ROCKCASTLE COUNTY, KENTUCKY

CHECKET BY M APPROVED: D. MILLER

DATE: FEBRUARY 5, 2020

(SUPPLEY NOT WALD WETHOUT SPEET 1 OF 2) P29 JOB 9: 200099KY

EXHIBIT 12 STANDARD ACCESS LETTER [FOLLOWS ON NEXT PAGE]

VADD Co. C/O Jerry J Cox P.O Box 1350 /25 Mt. Vernon, KY 40456

Telephone: (606) 256-5111

March 27, 2020

Re: Authorized Access granted to UNITI Towers LLC

Dear Building and Security Staff,

Please be advised that we have signed a lease with UNITI Towers LLC permitting UNITI Towers LLC to install, operate and maintain telecommunications equipment at the property. The terms of the lease grant UNITI Towers LLC and its representatives, employees, agents and subcontractors ("representatives") 24 hour per day, 7 day per week access to the leased area.

To avoid impact on telephone service during the day, UNITI Towers LLC representatives may be seeking access to the property outside of normal business hours. UNITI Towers LLC representatives have been instructed to keep noise levels at a minimum during their visit.

Please grant the bearer of a copy of this letter access to the property and to leased area. Thank you for your assistance.

Landlord Signature

Į

EXHIBIT J NOTIFICATION LISTING

McGuire Relo / Mt. Vernon - Notice List

VADD COMPANY PO BOX 1350 MT VERNON, KY 40456

COX RAE L TRUST C/O JERRY COX PO BOX 1350 MT VERNON, KY 40456

SHEPHERD MALCOLM 187 OLD DIXIE HWY MT VERNON, KY 40456

HOWARD WALTER M & VANESSA 262 OLD DIXIE HIGHWAY MT VERNON, KY 40456

SHEPHERD MALCOM J 187 OLD DIXIE HIGHWAY MT VERNON, KY 40456

GRAVES DALLAS 220 OLD DIXIE HWY MT VERNON, KY 40456

SHEPHERD MATTHEW & BEULAH 528 GENERAL CRUFT RD RICHMOND, KY 40475

STOKES J J -HEIRS-C/O EDITH STOKES 509 DRYFORK RD ORLANDO, KY 40460

MINK PERRY T & AMY 665 CARTER RIDGE RD MT VERNON, KY 40456

NEWTON RAYMOND MRS C/O MARGARET SMITH 362 OLD DIXIE HIGHWAY MT VERNON, KY 40456

EXHIBIT K COPY OF PROPERTY OWNER NOTIFICATION



1578 Highway 44 East, Suite 6 P.O. Box 369 Shepherdsville, KY 40165-0369 Phone (502) 955-4400 or (800) 516-4293 Fax (502) 543-4410 or (800) 541-4410

Notice of Proposed Construction of Wireless Communications Facility Site Name: McGuire Relo / Mt. Vernon

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Old U.S. Hwy 25, Mt. Vernon, KY 40456 (37° 21' 11.74" North latitude, 84° 19' 38.27" West longitude). The proposed facility will include a 330-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 342-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00365 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. AT&T Mobility'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 toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely, David A. Pike Attorney for Applicants

enclosures

Driving Directions to Proposed Tower Site

- Beginning at the Rockcastle County Judge Executive's Office, located at 205
 East Main Street, Mount Vernon, KY 40456, turn right onto East Main Street and
 travel approximately 623 feet.
- 2. Turn left onto Old US Hwy 25 and travel approximately 0.6 miles.
- 3. The site is located on the left. The site address is Old U.S. Hwy 25, Mt. Vernon, KY 40456.
- 4. The site coordinates are:
 - a. North 37 deg 21 min 11.74 sec
 - b. West 84 deg 19 min 38.27 sec



Prepared by: Chris Shouse Pike Legal Group 1578 Highway 44 East, Suite 6 P.O. Box 396 Shepherdsville, KY 40165-3069

Telephone: 502-955-4400 or 800-516-4293



| # | OWNER | ADDRESS | PID | REF |
|----|-------------------------------------------|---------------------------------------------|---------------|---------------|
| 1 | VADD COMPANY | P.O. BOX 1350 MT, VERNON, KY 40456 | 046-00-001.05 | DB 187 PG 303 |
| 2 | RAE L. COX, TRUST c/a JERRY COX | P.O. BOX 1350 MT VERNON, KY 40456 | 046-00-001 | DB 230 PG 681 |
| 3 | MALCOLM SHEPHERD | 187 OLD DIXIE HWY MT VERNON, KY 40456 | 046-00-002 | DB 194 PG 32 |
| 4 | WALTER M. & VANESSA HOWARD | Z62 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-009 | DB 270 PG 62 |
| 5 | MALCOLM J, SHEPHERD | 187 OLD DDXIE HWY MT VERNON, KY 40456 | 046W-09-008 | DB 199 PG 667 |
| 6 | DALLAS GRAVES | 220 OLD DIXIE HWY MT VERNON, KY 40456 | 046-00-005 | DB 182 PG 201 |
| 7 | MATTHEW & BEULAH SHEPHERD | 528 GENERAL CRUFT RD MT VERNON, KY 40456 | 046-00-006 | DB 225 PG 272 |
| 8 | STOKES JJ -HEIRS- c/o EDITH STOKES | 509 DRYFORK ROAD ORLANDO, KY 40460 | 046-00-008 | 3+2 |
| 9 | PERRY T & AMY MINK | 665 CARTER RIDGE RD MT VERNON, KY 40456 | 046-00-007 | DB 261 PG 186 |
| 10 | PERRY T & AMY MINK | 665 CARTER RIDGE RD MT VERNON, KY 40456 | 046-00-009 | DB 261 PG 182 |
| 1 | NEWTON RAYMOND MRS. c/o MARGARET SMITH | 362 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-010 | 3 |

NOTE:

- 1. PVA INFORMATION WAS OBTAINED ON 10/28/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- 2. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 3. NOT FOR RECORDING OR PROPERTY TRANSFER.







MT. VERNON

PROJECT NO: CHECKED BY MAS ISSUED FOR | REV | DATE | DRWN | DESCRIPTION |
| A | DB/19/20 | DLS | ZONING DRAWINGS |
| O | DB/31/20 | DLS | ZONING DRAWINGS |
| DB/31/20 | DLS | ZONING DRAWINGS |



500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:

BAT NOTE:

MUST DO TREE CLEARING BETWEEN OCTOBER 15th AND MARCH 31st, DUE TO BAT TREES ON PROPERTY





CALL KENTUCKY ONE CALL (800) 752-6007 CALL 3 WORKING DAYS BEFORE YOU DIG!



EXHIBIT L COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



1578 Highway 44 East, Suite 6 P.O. Box 369 Shepherdsville, KY 40165-0369 Phone (502) 955-4400 or (800) 516-4293 Fax (502) 543-4410 or (800) 541-4410

VIA CERTIFIED MAIL

Howell Holbrook Jr.
County Judge Executive
P.O. Box 755
205 East Main Street
Mount Vernon, KY 40456

RE:

Notice of Proposal to Construct Wireless Communications Facility

Kentucky Public Service Commission Docket No. 2020-00365

Site Name: McGuire Relo / Mt. Vernon

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Old U.S. Hwy 25, Mt. Vernon, KY 40456 (37° 21' 11.74" North latitude, 84° 19' 38.27" West longitude). The proposed facility will include a 330-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 342-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

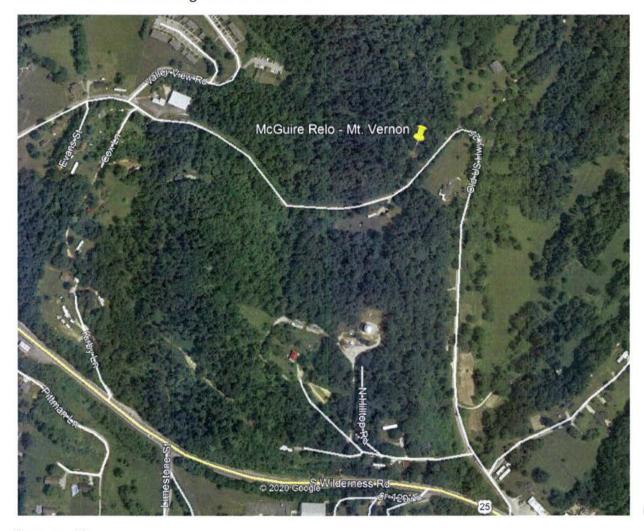
You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00365 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. AT&T Mobility'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 with any comments or questions you may have.

Sincerely, David A. Pike Attorney for Applicants enclosures

Driving Directions to Proposed Tower Site

- Beginning at the Rockcastle County Judge Executive's Office, located at 205
 East Main Street, Mount Vernon, KY 40456, turn right onto East Main Street and
 travel approximately 623 feet.
- 2. Turn left onto Old US Hwy 25 and travel approximately 0.6 miles.
- 3. The site is located on the left. The site address is Old U.S. Hwy 25, Mt. Vernon, KY 40456.
- 4. The site coordinates are:
 - a. North 37 deg 21 min 11.74 sec
 - b. West 84 deg 19 min 38.27 sec



Prepared by: Chris Shouse Pike Legal Group 1578 Highway 44 East, Suite 6 P.O. Box 396 Shepherdsville, KY 40165-3069

Telephone: 502-955-4400 or 800-516-4293



| # | OWNER | ADDRESS | PID | REF |
|----|-------------------------------------------|---------------------------------------------|---------------|---------------|
| 1 | VADD COMPANY | P.O. BOX 1350 MT. VERNON, KY 40456 | 046-00-001.05 | DB 187 PG 303 |
| 2 | RAE L. COX, TRUST c/o JERRY COX | P.O. BOX 1350 MT VERNON, KY 40456 | 046-00-001 | DB 230 PG 681 |
| 3 | MALCOLM SHEPHERD | 187 OLD DIXIE HWY MT VERNON, KY 40456 | 046-00-002 | DB 194 PG 32 |
| 4 | WALTER M. & VANESSA HOWARD | 262 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-009 | DB 270 PG 62 |
| 5 | MALCOLM J. SHEPHERD | 187 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-008 | DB 199 PG 667 |
| 6 | DALLAS GRAVES | 220 OLD DIXIE HWY MT VERNON, KY 40456 | 046-00-005 | DB 182 PG 201 |
| 7 | MATTHEW & BEULAH SHEPHERD | 528 GENERAL CRUFT RD MT VERNON, KY 40456 | 046-00-006 | DB 225 PG 272 |
| 8 | STOKES JJ -HEIRS- c/o EDITH STOKES | 509 DRYFORK ROAD ORLANDO, KY 40460 | 046-00-008 | ¥/ |
| 9 | PERRY T & AMY MINK | 665 CARTER RIDGE RD MT VERNON, KY 40456 | 046-00-007 | DB 261 PG 186 |
| 10 | PERRY T & AMY MINK | 665 CARTER RIDGE RD MT VERNON, KY 40456 | 046-00-009 | DB 261 PG 182 |
| 11 | NEWTON RAYMOND MRS. c/o MARGARET SMITH | 362 OLD DIXIE HWY MT VERNON, KY 40456 | 046W-09-010 | *: |

NOTE:

- PVA INFORMATION WAS OBTAINED ON 10/28/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 3. NOT FOR RECORDING OR PROPERTY TRANSFER.







MT. VERNON
FAR IS147386
PMCI# MRINGO498
PI# I0110570
OLDUS, IMY 25
MT. VIERNON, KY, 20456
ROCKGASTILE, COUNTY

| PROJECT NO. | | | G0017346-00 | |
|-------------|-------------|-------|--------------------------|--|
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| REV | STAG | DRWN | DESCRIPTION | |
| A | 08/19/20 | 06.5 | ZONING DRAWINGS | |
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| | 100 780 700 | 61.47 | Parameter and control of | |

B&T ENGINEERING, INC. E-1403 Expires 12/31/20



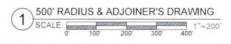
IT IS A VOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING LINCON THE DIRECTION OF A LICENSE PROFESSIONAL ENGINEER, TO ALIER THIS DOCUMENT.

> 500' RADIUS & ADJOINER'S DRAWING

C-1

BAT NOTE:

MUST DO TREE CLEARING BETWEEN OCTOBER 15th AND MARCH 31st, DUE TO BAT TREES ON PROPERTY





CALL KENTUCKY ONE CALL (800) 752-6007 CALL 3 WORKING DAYS BEFORE YOU DIG!

EXHIBIT M COPY OF POSTED NOTICES AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: MCGUIRE RELO / MT. VERNON NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "tower," which is at least four (4) inches in height.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company propose to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00365 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company propose to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00365 in your correspondence.



1578 Highway 44 East, Suite 6 P.O. Box 369 -Shepherdsville, KY 40165-0369 Phone (502) 955-4400 or (800) 516-4293 Fax (502) 543-4410 or (800) 541-4410

VIA TELEPHONE: (606) 256-2244

The Mt. Vernon Signal 115 W Main Street Mount Vernon, KY 40456

RE:

Legal Notice Advertisement

Site Name: McGuire Relo / Mt. Vernon

Dear Mt. Vernon Signal:

Please publish the following legal notice advertisement in the next edition of The Mt. Vernon Signal:

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on Old U.S. Hwy 25, Mt. Vernon, KY 40456 (37° 21' 11.74" North latitude, 84° 19' 38.27" West longitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00365 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely. Chris Shouse Pike Legal Group, PLLC

EXHIBIT N COPY OF RADIO FREQUENCY DESIGN SEARCH AREA

