

**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,)	
D/B/A AT&T MOBILITY)	
AND TILLMAN INFRASTRUCTURE LLC, A DELAWARE)	
LIMITED LIABILITY COMPANY)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC)	CASE NO.: 2022-00116
CONVENIENCE AND NECESSITY TO CONSTRUCT)	
A WIRELESS COMMUNICATIONS FACILITY)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF MCCREARY)	

SITE NAME: PINE KNOT RELO

* * * * *

**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 Tillman Infrastructure 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 Tillman Infrastructure LLC, a Delaware limited liability company having an address of 152 W 57th Street, New York, NY 10019.

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. Tillman Infrastructure is a limited liability company organized in the State of Delaware on June 13, 2016.

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 5787 S. Hwy 1651, Pine Knot, KY 42635 (36° 39' 54.68" North latitude, 84° 26' 54.71" 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 South McCreary County Fire Protection District, of Pine Knot who also acquired title as South McCreary Fire Department, Pine Knot, Kentucky pursuant to a deed recorded at Deed Book 108, Page 716 in the office of the County Clerk. The proposed WCF will consist of a 250-foot tall tower, with an approximately 8-foot tall lightning arrestor attached at the top, for a total height of 258-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 Kentucky Airport Zoning Commission ("KAZC") application for the proposed site 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. Tillman Infrastructure, 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 John Lounsbury 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. Copies of the certified green card receipts for each of the landowners who were provided notice are also included as part of **Exhibit J**.

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 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 in character. The lease area is located on property owned by the local volunteer fire department.

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
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

- A - Certificate of Authority & FCC License Documentation
- B - Site Development Plan:
 - 500' Vicinity Map
 - Legal Descriptions
 - Flood Plain Certification
 - Site Plan
 - Vertical Tower Profile
- C - Tower and Foundation Design
- D - Competing Utilities, Corporations, or Persons List
- E - FAA
- F - Kentucky Airport Zoning Commission
- G - Geotechnical Report
- H - Directions to WCF Site
- I - Copy of Real Estate Agreement
- J - Notification Listing & Certified Green Card Receipts
- K - Copy of Property Owner Notification
- L - Copy of County Judge/Executive Notice
- M - Copy of Posted Notices and Newspaper Notice Advertisement
- N - 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: 216299
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
Alison Lundergan Grimes
Secretary of State
Commonwealth of Kentucky
216299/0481848

Michael G. Adams
Kentucky Secretary of State
Received and Filed:
11/18/2021 10:04 AM
Fee Receipt: \$148.00



COMMONWEALTH OF KENTUCKY
MICHAEL G. ADAMS, SECRETARY OF STATE

Division of Business Filings P.O. Box 718 Frankfort, KY 40602 (502) 564-3490 www.sos.ky.gov	Certificate of Authority (Foreign Business Entity)	FBE
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Pursuant to the provisions of KRS 14A – 030 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a:

<input checked="" type="checkbox"/> profit corporation	<input type="checkbox"/> nonprofit corporation	<input type="checkbox"/> professional limited liability company
<input type="checkbox"/> business trust	<input checked="" type="checkbox"/> limited liability company	<input type="checkbox"/> statutory trust
<input type="checkbox"/> limited partnership	<input type="checkbox"/> ltd cooperative association	<input type="checkbox"/> other
<input type="checkbox"/> non-profit llc	<input type="checkbox"/> professional service corporation	

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

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

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

5. The date of organization is JUNE 13, 2016 and the period of duration is PERPETUAL
(If left blank, duration is considered perpetual.)

6. The mailing address of the entity's principal office is

<u>152 W 57TH STREET</u>	<u>NEW YORK</u>	<u>NY</u>	<u>10019</u>
Street Address	City	State	Zip Code

7. The street address of the entity's registered office in Kentucky is

<u>421 WEST MAIN ST</u>	<u>FRANKFORT</u>	<u>KY</u>	<u>40601</u>
Street Address (No P.O. Box Numbers)	City	State	Zip Code

and the name of the registered agent at that office is BLUMBERG CORPORATE SERVICES, LLC

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

Name	Street or P.O. Box	City	State	Zip Code
<u>SURUCHI AHUJA</u>	<u>152 W 57TH STREET</u>	<u>NEW YORK</u>	<u>NY</u>	<u>10019</u>
<u>Name</u>	<u>Street or P.O. Box</u>	<u>City</u>	<u>State</u>	<u>Zip Code</u>
<u>Name</u>	<u>Street or P.O. Box</u>	<u>City</u>	<u>State</u>	<u>Zip Code</u>

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

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

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

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

13. This application will be effective upon filing.

<u></u>	<u>SURUCHI AHUJA, MANAGER</u>	<u>11/16/2021</u>
Signature of Authorized Representative	Printed Name & Title	Date

I, BLUMBERG CORPORATE SERVICES, LLC, consent to serve as the registered agent on behalf of the business entity.
Type/Print Name of Registered Agent

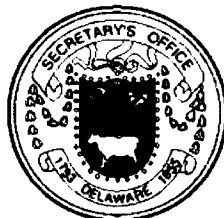
<u></u>	<u>JOSE MOJICA</u>	<u>ASSISTANT SECRETARY</u>	<u>11/16/2021</u>
Signature of Registered Agent	Printed Name	Title	Date


Delaware

Page 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "TILLMAN INFRASTRUCTURE LLC", FILED IN THIS OFFICE ON THE THIRTEENTH DAY OF JUNE, A.D. 2016, AT 11:07 O`CLOCK A.M.




Jeffrey W. Bullock, Secretary of State

6067508 8100
SR# 20164424697

Authentication: 202480828
Date: 06-13-16

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

CERTIFICATE OF FORMATION
of
TILLMAN INFRASTRUCTURE LLC
A LIMITED LIABILITY COMPANY

Pursuant to Section 18-201:

- FIRST: The name of the limited liability company is:
TILLMAN INFRASTRUCTURE LLC
- SECOND: Its registered office in the State of Delaware is to be located at: 1013 Centre Road, Suite 403S, Wilmington, DE 19805, County of New Castle and its registered agent at such address is: BlumbergExcelsior Corporate Services, Inc.
- THIRD: The duration of the limited liability company is perpetual.

IN WITNESS WHEREOF, the undersigned, being the individual forming the limited liability company, has executed, signed and acknowledged this Certificate of Formation this 13th day of June, 2016

/s/ Jose Mojica
Jose Mojica
Organizer

Statement of Organizers Action

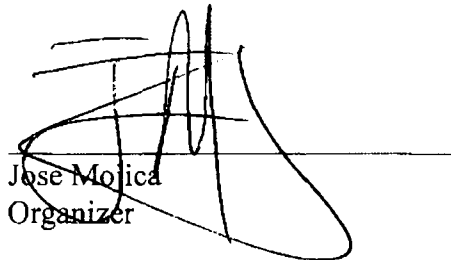
of

TILLMAN INFRASTRUCTURE LLC

The undersigned, being the initial authorized person of the within named limited liability company does hereby state that:

1. The Certificate of Formation of the Limited Liability Company (herein known as the "LLC") was filed by the State of Delaware on June 13, 2016. The Certificate of Formation is annexed hereto. The same hereby, is ordered filed with the Operating Agreement of the LLC.
2. At the time of its formation, the LLC had at least one member/manager, to wit: Sanjiv Ahuja, Anju Ahuja, Sachit Ahuja and Suruchi Ahuja
3. The initial organizer herein is neither a member nor a manager of the LLC.
4. From this date hence, the undersigned, effective this date, has fulfilled the duties as the initial organizer of LLC and herewith relinquishes all further duties to the LLC.

IN WITNESS WHEREOF, I have made and subscribed this Initial Election of Members, this 13th day of June, 2016


Jose Mojica
Organizer

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: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 2100
DALLAS, TX 75202

Call Sign KNKN666	File Number 0009619100
Radio Service CL - Cellular	
Market Numer CMA447	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 5 - Barren

Grant Date 09-08-2021	Effective Date 09-08-2021	Expiration Date 10-01-2031	Five Yr Build-Out Date	Print Date 09-08-2021
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	37-10-00.0 N	085-18-37.0 W	282.5	291.4	1062332

Address: 1210 Cane Valley Road (94238)

City: Columbia County: ADAIR State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	180.300	151.200	132.800	140.500	155.800	172.800	186.200	183.500
Transmitting ERP (watts)	250.037	98.154	10.266	2.559	0.527	0.738	12.510	102.333

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	180.300	151.200	132.800	140.500	155.800	172.800	186.200	183.500
Transmitting ERP (watts)	1.408	30.262	153.476	217.337	49.025	5.207	1.772	0.660

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	180.300	151.200	132.800	140.500	155.800	172.800	186.200	183.500
Transmitting ERP (watts)	2.948	0.454	0.942	4.366	59.310	210.546	155.347	22.706

Conditions:

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	36-43-12.0 N	084-28-13.0 W	409.3	91.1	1042231

Address: 100 Manor Circle (94260)

City: Whitley City County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.400	147.100	135.800	109.800	103.700	143.600	127.300	165.300
Transmitting ERP (watts)	244.175	220.925	36.790	4.400	1.072	1.113	3.637	56.485

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.400	147.100	135.800	109.800	103.700	143.600	127.300	165.300
Transmitting ERP (watts)	2.526	8.109	37.053	64.172	73.466	23.019	4.143	0.935

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	123.400	147.100	135.800	109.800	103.700	143.600	127.300	165.300
Transmitting ERP (watts)	13.438	3.125	0.649	0.912	15.291	122.113	297.793	117.856

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	36-56-36.9 N	086-00-52.2 W	218.8	91.1	1063506

Address: 638 GRAHAM ROAD (87368)

City: GLASGOW County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.900	78.700	69.100	74.800	91.600	116.000	101.800	89.500
Transmitting ERP (watts)	138.618	59.574	7.477	1.200	0.283	0.661	10.185	66.521

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.900	78.700	69.100	74.800	91.600	116.000	101.800	89.500
Transmitting ERP (watts)	2.142	19.146	94.547	124.562	33.322	3.559	0.817	0.257

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	76.900	78.700	69.100	74.800	91.600	116.000	101.800	89.500
Transmitting ERP (watts)	2.434	0.360	0.244	4.119	40.205	121.384	90.927	17.264

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	36-48-31.1 N	084-50-43.5 W	466.6	61.0	1004214

Address: 6565 MORRIS HILL ROAD (87856)
City: MONTICELLO County: WAYNE State: KY Construction Deadline:

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 216.900 160.100 180.400 174.000 158.000 164.800 204.700 214.300
Transmitting ERP (watts) 159.083 70.430 5.874 0.769 0.334 0.371 9.558 76.538

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 216.900 160.100 180.400 174.000 158.000 164.800 204.700 214.300
Transmitting ERP (watts) 1.547 33.128 166.094 241.154 55.397 5.855 1.952 0.731

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 216.900 160.100 180.400 174.000 158.000 164.800 204.700 214.300
Transmitting ERP (watts) 1.611 0.321 0.293 4.972 42.968 145.725 111.912 13.218

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	36-53-52.1 N	084-47-02.5 W	353.6	94.2	1238700

Address: ROUTE 5, BOX 9516 (87058)
City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 153.300 160.500 119.100 104.500 62.300 124.200 155.000 148.700
Transmitting ERP (watts) 151.264 65.591 5.815 0.740 0.328 0.344 9.075 72.988

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 153.300 160.500 119.100 104.500 62.300 124.200 155.000 148.700
Transmitting ERP (watts) 2.029 20.018 108.704 142.806 33.266 2.825 0.395 0.478

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 153.300 160.500 119.100 104.500 62.300 124.200 155.000 148.700
Transmitting ERP (watts) 1.536 0.299 0.287 4.752 41.633 135.419 106.546 12.709

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-05-19.7 N	084-54-47.3 W	331.6	106.4	1232264

Address: 1101 PINE TOP ROAD (86918)

City: RUSSELL SPRINGS County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	118.700	77.600	105.400	136.900	148.600	127.700	120.400	134.300
Transmitting ERP (watts)	106.145	47.603	4.827	0.278	0.215	0.233	6.909	51.527

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	118.700	77.600	105.400	136.900	148.600	127.700	120.400	134.300
Transmitting ERP (watts)	2.313	23.146	119.606	157.272	35.853	3.353	0.454	0.536

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	118.700	77.600	105.400	136.900	148.600	127.700	120.400	134.300
Transmitting ERP (watts)	1.748	0.347	0.313	5.295	45.951	158.160	122.299	14.137

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	36-45-21.5 N	085-03-35.7 W	353.6	78.6	1258266

Address: RR BOX 200 STATE ROUTE 90 (97275)

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	140.400	108.000	36.100	88.900	81.600	132.000	170.300
Transmitting ERP (watts)	61.485	218.225	164.915	26.293	2.922	0.471	0.954	4.500

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	140.400	108.000	36.100	88.900	81.600	132.000	170.300
Transmitting ERP (watts)	1.000	4.591	60.220	229.906	159.544	23.590	2.912	0.466

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	140.400	108.000	36.100	88.900	81.600	132.000	170.300
Transmitting ERP (watts)	7.041	2.307	0.511	1.072	23.419	142.307	232.641	64.969

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	36-44-36.2 N	085-08-34.1 W	350.5	78.0	1258265

Address: 127 North Cross (Route 6 Box 991) (94257)

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	181.800	142.800	72.800	100.300	157.000	167.400	157.200	193.400
Transmitting ERP (watts)	31.597	145.107	168.768	30.884	3.418	1.072	0.669	1.670

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	181.800	142.800	72.800	100.300	157.000	167.400	157.200	193.400
Transmitting ERP (watts)	1.105	1.668	14.838	36.641	44.724	30.421	5.045	2.474

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	181.800	142.800	72.800	100.300	157.000	167.400	157.200	193.400
Transmitting ERP (watts)	40.424	4.384	1.518	0.529	1.123	24.617	125.244	176.237

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	37-18-17.2 N	085-55-38.3 W	285.3	99.1	1200030

Address: 824 I CHILDRESS ROAD (37618)

City: Munfordville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	120.900	185.100	176.500	166.200	156.000	134.000	170.100
Transmitting ERP (watts)	87.882	116.157	30.423	3.076	0.288	0.394	1.136	15.107

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	120.900	185.100	176.500	166.200	156.000	134.000	170.100
Transmitting ERP (watts)	0.236	4.016	34.037	111.204	87.767	11.936	0.954	0.231

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	120.900	185.100	176.500	166.200	156.000	134.000	170.100
Transmitting ERP (watts)	0.893	0.228	0.217	2.143	29.130	110.300	94.526	17.072

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-41-54.0 N	085-41-07.0 W	286.5	90.2	1065560

Address: 403 MARTIN SUBDIVISION (87881)
City: TOMPKINSVILLE County: MONROE State: KY Construction Deadline:

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 69.700 75.300 146.800 80.100 75.200 103.200 86.800 75.200
Transmitting ERP (watts) 271.841 109.386 7.417 0.800 0.553 0.537 18.630 138.505

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 69.700 75.300 146.800 80.100 75.200 103.200 86.800 75.200
Transmitting ERP (watts) 1.721 17.109 89.000 121.386 26.164 2.348 0.328 0.400

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 69.700 75.300 146.800 80.100 75.200 103.200 86.800 75.200
Transmitting ERP (watts) 1.247 0.244 0.229 4.118 34.693 116.367 90.021 10.295

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-21-17.2 N	085-52-24.7 W	352.0	83.8	1220496

Address: 2830 Frenchman's Knob Road (94236)
City: Bonnieville County: HART State: KY Construction Deadline:

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 193.700 191.000 195.200 238.600 217.000 184.800 226.800 216.700
Transmitting ERP (watts) 184.924 99.849 11.423 0.450 0.602 0.510 8.026 87.512

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 193.700 191.000 195.200 238.600 217.000 184.800 226.800 216.700
Transmitting ERP (watts) 2.115 37.767 246.087 328.098 100.148 5.709 0.676 0.788

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820
Azimuth(from true north) 0 45 90 135 180 225 270 315
Antenna Height AAT (meters) 193.700 191.000 195.200 238.600 217.000 184.800 226.800 216.700
Transmitting ERP (watts) 1.310 0.350 0.339 3.061 46.385 170.557 144.024 26.849

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-04-19.5 N	084-59-59.4 W	317.0	78.0	1257488

Address: 227 Horn Rd (94247)

City: Russell Springs County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.200	77.200	79.700	105.800	146.300	99.500	80.900	89.500
Transmitting ERP (watts)	221.223	212.121	177.242	71.356	77.801	28.148	33.937	155.008

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.200	77.200	79.700	105.800	146.300	99.500	80.900	89.500
Transmitting ERP (watts)	18.208	41.435	173.839	236.936	272.788	110.954	36.898	14.156

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.200	77.200	79.700	105.800	146.300	99.500	80.900	89.500
Transmitting ERP (watts)	68.660	39.848	0.532	12.732	74.296	228.506	206.369	227.920

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	36-50-28.6 N	086-02-47.1 W	225.9	60.7	

Address: Austin Tracy Rd (115120)

City: Lucas County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.800	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	79.481	128.527	48.267	34.537	0.275	16.613	58.629	118.330

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.800	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	16.424	105.957	212.448	227.867	141.232	41.336	29.497	11.208

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.800	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	3.736	0.847	2.276	7.728	35.347	59.316	65.492	20.964

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.700	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	80.215	129.717	48.867	34.856	0.278	16.767	59.174	119.427

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.700	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	16.576	106.934	215.086	229.984	142.541	41.717	29.770	11.312

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File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	36-50-28.6 N	086-02-47.1 W	225.9	60.7	

Address: Austin Tracy Rd (115120)

City: Lucas County: BARREN State: KY Construction Deadline:

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.700	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	3.770	0.854	2.304	7.800	35.674	59.863	66.098	21.158

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	36-46-44.5 N	084-56-33.7 W	396.2	78.0	1258267

Address: 9096 W. Hwy 90 (94262)

City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	194.500	173.000	138.200	103.300	102.200	140.500	166.900	201.300
Transmitting ERP (watts)	147.841	143.877	130.052	39.637	24.482	1.946	8.038	54.683

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	194.500	173.000	138.200	103.300	102.200	140.500	166.900	201.300
Transmitting ERP (watts)	0.742	5.202	57.406	186.618	115.460	13.939	2.131	0.396

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	194.500	173.000	138.200	103.300	102.200	140.500	166.900	201.300
Transmitting ERP (watts)	27.223	19.327	10.778	15.109	86.367	155.385	168.892	88.819

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	36-39-45.3 N	084-26-36.2 W	428.2	79.9	1275397

Address: 6135 Hwy 1651 (115765)

City: Pine Knot County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.500	143.700	119.600	95.500	88.700	114.200	161.300	166.800
Transmitting ERP (watts)	69.450	261.545	232.470	44.008	2.017	0.559	0.530	4.304

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.500	143.700	119.600	95.500	88.700	114.200	161.300	166.800
Transmitting ERP (watts)	0.210	0.184	2.662	25.143	50.189	30.009	3.791	0.206

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File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	36-39-45.3 N	084-26-36.2 W	428.2	79.9	1275397

Address: 6135 Hwy 1651 (115765)

City: Pine Knot County: MCCRERY State: KY Construction Deadline:

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.500	143.700	119.600	95.500	88.700	114.200	161.300	166.800
Transmitting ERP (watts)	113.680	6.615	0.792	0.868	2.269	39.368	258.605	358.864

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	36-50-27.1 N	084-28-44.2 W	425.5	79.6	1233359

Address: 165 HWY 90 (114139)

City: Parkers Lake County: MCCRERY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	185.500	163.600	170.800	152.900	106.200	178.000	165.700	183.000
Transmitting ERP (watts)	23.185	14.817	1.670	0.153	0.104	0.150	1.655	13.513

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	185.500	163.600	170.800	152.900	106.200	178.000	165.700	183.000
Transmitting ERP (watts)	2.683	26.605	140.903	189.301	44.170	3.813	0.542	0.629

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	185.500	163.600	170.800	152.900	106.200	178.000	165.700	183.000
Transmitting ERP (watts)	2.063	0.405	0.373	6.243	54.676	179.706	144.196	16.857

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	36-41-51.7 N	085-07-19.1 W	303.9	78.0	1273817

Address: 399 Daylton Road (112920)

City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.500	53.600	30.000	64.200	100.300	112.300	94.400	76.300
Transmitting ERP (watts)	255.895	112.531	6.303	1.065	0.524	0.886	15.778	134.111

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.500	53.600	30.000	64.200	100.300	112.300	94.400	76.300
Transmitting ERP (watts)	1.151	13.278	68.092	80.326	20.259	1.984	0.205	0.284

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	36-41-51.7 N	085-07-19.1 W	303.9	78.0	1273817

Address: 399 Daylton Road (112920)
 City: Albany County: CLINTON State: KY Construction Deadline:

Antenna: 3
 Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	103.500	53.600	30.000	64.200	100.300	112.300	94.400	76.300
Transmitting ERP (watts)	0.327	0.106	0.101	1.174	12.741	41.443	34.130	5.644

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
38	36-44-13.0 N	085-42-10.0 W	309.7	91.1	1042225

Address: 3151 EDMONTON ROAD (94259)
 City: TOMPKINSVILLE County: MONROE State: KY Construction Deadline:

Antenna: 1
 Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.100	109.700	147.100	108.800	126.000	145.900	125.000	125.900
Transmitting ERP (watts)	189.524	72.806	7.444	1.950	0.393	0.557	9.583	77.626

Antenna: 2
 Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.100	109.700	147.100	108.800	126.000	145.900	125.000	125.900
Transmitting ERP (watts)	1.067	23.007	114.837	166.790	36.523	3.864	1.339	0.493

Antenna: 3
 Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	111.100	109.700	147.100	108.800	126.000	145.900	125.000	125.900
Transmitting ERP (watts)	2.199	0.335	0.702	3.359	45.136	159.373	117.688	16.866

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	36-38-51.6 N	085-17-33.1 W	317.0	60.7	

Address: 5163 State Park (117828)
 City: Cumberland County: CUMBERLAND State: KY Construction Deadline:

Antenna: 1
 Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.500	86.500	93.600	115.600	123.000	167.100	133.100	121.800
Transmitting ERP (watts)	24.683	224.514	184.090	16.413	0.520	0.462	0.466	0.469

Antenna: 2
 Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.500	86.500	93.600	115.600	123.000	167.100	133.100	121.800
Transmitting ERP (watts)	46.321	0.611	0.527	0.529	0.541	7.711	140.237	265.546

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	37-11-42.5 N	085-57-13.0 W	267.6	99.1	1224165

Address: 1515 FISHER RIDGE ROAD (37620)

City: Horse Cave County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.700	170.000	148.400	148.400	138.900	116.100	137.500	147.400
Transmitting ERP (watts)	96.574	101.465	19.855	1.861	0.214	0.322	2.056	21.126

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.700	170.000	148.400	148.400	138.900	116.100	137.500	147.400
Transmitting ERP (watts)	8.514	101.153	307.468	229.726	25.253	1.925	0.630	0.630

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.700	170.000	148.400	148.400	138.900	116.100	137.500	147.400
Transmitting ERP (watts)	0.226	0.222	3.795	33.295	109.116	83.424	11.320	0.928

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	37-01-03.9 N	085-54-42.3 W	254.8	68.6	1230168

Address: 170 Robert Bishop Lane (94244)

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.000	83.300	56.400	66.300	91.100	106.300	92.700	90.500
Transmitting ERP (watts)	104.518	139.218	43.033	2.862	0.290	0.325	1.008	15.797

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.000	83.300	56.400	66.300	91.100	106.300	92.700	90.500
Transmitting ERP (watts)	0.395	3.203	50.041	189.424	165.261	28.863	1.290	0.398

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.000	83.300	56.400	66.300	91.100	106.300	92.700	90.500
Transmitting ERP (watts)	11.785	0.490	0.619	0.543	8.652	98.226	207.121	111.304

Control Points:

Control Pt. No. 1

Address: 124 South Keeneland Drive (Suite 103)

City: RICHMOND County: MADISON State: KY Telephone Number: (859)544-4804

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number: 0009619100

Print Date: 09-08-2021

Waivers/Conditions:

NONE

REFERENCE COPY

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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 12-07-2020	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 15	
Market Name Louisville-Lexington-Evansville			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	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.

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.

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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 WPOI255	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 05-27-2015	Effective Date 03-12-2020	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 19	
Market Name Louisville-Lexington-Evansvill			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	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.

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.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI255

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 WPOK659	File Number 0008716070
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 09-12-2019	Effective Date 09-12-2019	Expiration Date 09-29-2029	Print Date 09-13-2019
Market Number BTA423	Channel Block C	Sub-Market Designator 1	
Market Name Somerset, KY			
1st Build-out Date 09-29-2004	2nd Build-out Date 09-29-2009	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.

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOK659

File Number: 0008716070

Print Date: 09-13-2019

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 WPXT205	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 06-02-2015	Effective Date 08-31-2018	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 8	
Market Name Louisville-Lexington-Evansvill			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	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.

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.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPXT205

File Number:

Print Date:

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).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPXT205

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

Call Sign WQFA872	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 BTA423	Channel Block E	Sub-Market Designator 7	
Market Name Somerset, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQFA872

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: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 2100
DALLAS, TX 75202

Call Sign WQGA818	File Number 0009696747
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-16-2021	Effective Date 11-16-2021	Expiration Date 11-29-2036	Print Date 11-17-2021
Market Number CMA447	Channel Block A	Sub-Market Designator 0	
Market Name Kentucky 5 - Barren			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGA818

File Number: 0009696747

Print Date: 11-17-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 2100
DALLAS, TX 75202

Call Sign WQGA824	File Number 0009696759
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-16-2021	Effective Date 11-16-2021	Expiration Date 11-29-2036	Print Date 11-17-2021
Market Number CMA453	Channel Block A	Sub-Market Designator 0	
Market Name Kentucky 11 - Clay			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGA824

File Number: 0009696759

Print Date: 11-17-2021

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 2100
DALLAS, TX 75202

Call Sign WQGD755	File Number 0009778271
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 01-10-2022	Effective Date 01-10-2022	Expiration Date 12-18-2036	Print Date 01-11-2022
Market Number BEA047	Channel Block C	Sub-Market Designator 9	
Market Name Lexington, KY-TN-VA-WV			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD755

File Number: 0009778271

Print Date: 01-11-2022

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: FCC GROUP
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST. RM 2100
DALLAS, TX 75202

Call Sign WQUZ670	File Number 0009696437
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-16-2021	Effective Date 11-16-2021	Expiration Date 11-29-2036	Print Date 11-17-2021
Market Number REA004	Channel Block D	Sub-Market Designator 10	
Market Name Mississippi Valley			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQUZ670

File Number: 0009696437

Print Date: 11-17-2021

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 law or **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).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQUZ670

File Number: 0009696437

Print Date: 11-17-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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EXHIBIT B

SITE DEVELOPMENT PLAN:

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

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

TILLMAN INFRASTRUCTURE

TILLMAN OPP NUMBER: TI-OPP-18773
TILLMAN SITE NAME: PINE KNOT RELO
SITE ADDRESS: 5787 S. HWY 1651
PINE KNOT, KY 42635
PID: 123-40-01-001.00
FA# 15312904

CONSTRUCTION APPROVAL	
TILLMAN SITE ACQUISITION MANAGER: _____	DATE: _____
TILLMAN CONSTRUCTION MANAGER: _____	DATE: _____
RF PROJECT MANAGER: _____	DATE: _____
PROJECT MANAGER: _____	DATE: _____



JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-277-0070
 FAX : 847-277-0080
 EMAIL: JBANKS@WESTCHESTERSERVICES.COM

WESTCHESTER SERVICES LLC
 KY FIRM NO. 5130
 604 FOX GLEN
 BARRINGTON, IL 60010
 PHONE: 847-277-0070
 EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
 DATE: 03/27/22

 EXP. DATE: 06/30/23

TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME: PINE KNOT RELO
FA# 15312904
SITE ADDRESS: 5787 S. HWY 1651 PINE KNOT, KY 42635

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

SITE INFORMATION

SITE ADDRESS	123-40-01-001.00 PINE KNOT, KY 42635
LATITUDE (NAD 83)	36° 39' 54.68" N (36.6651881°)
LONGITUDE (NAD 83)	84° 26' 54.71" W (-84.4485311°)
GROUND ELEVATION	1411.2' (AMSL)
JURISDICTION	MCCREARY COUNTY
JURISDICTION CONTACT	JOHN WALLACE EMAIL: jwallace@lcc telecom.com 312-961-0559
ZONING	NONE
PARCELMAP NUMBER	123-40-01-001.00
LANDLORD OWNER	PINE KNOT VOLUNTEER FIRE SERVICES 5787 S. HWY 1651 PINE KNOT, KY 42635
TOWER OWNER	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10011
STRUCTURE TYPE	SELF SUPPORT TOWER
STRUCTURE HEIGHT	250'-0" (AGL)
POWER SUPPLIER	CONSUMERS ENERGY PHONE NUMBER: 1-800-477-5050
FIBER SUPPLIER	TBD PHONE NUMBER: TBD

PROJECT TEAM

APPLICANT:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10019
PROJECT MANAGEMENT FIRM	LCC TELECOM SERVICES 10700 HIGGINS ROAD, SUITE 240 ROSEMONT, IL 60018 (847) 608-6300
ARCHITECT ENGINEERING	JOHN M. BANKS 604 FOX GLEN BARRINGTON, IL 60010 CONTACT: JOHN M. BANKS PHONE: (847) 277-0070 EMAIL: JBANKS@WESTCHESTERSERVICES.COM

VICINITY MAP



DRIVING DIRECTIONS



CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2018 KENTUCKY STATE BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL BUILDING CODE
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECordia GR-1275
- ANSI/T 311

DRAWING INDEX

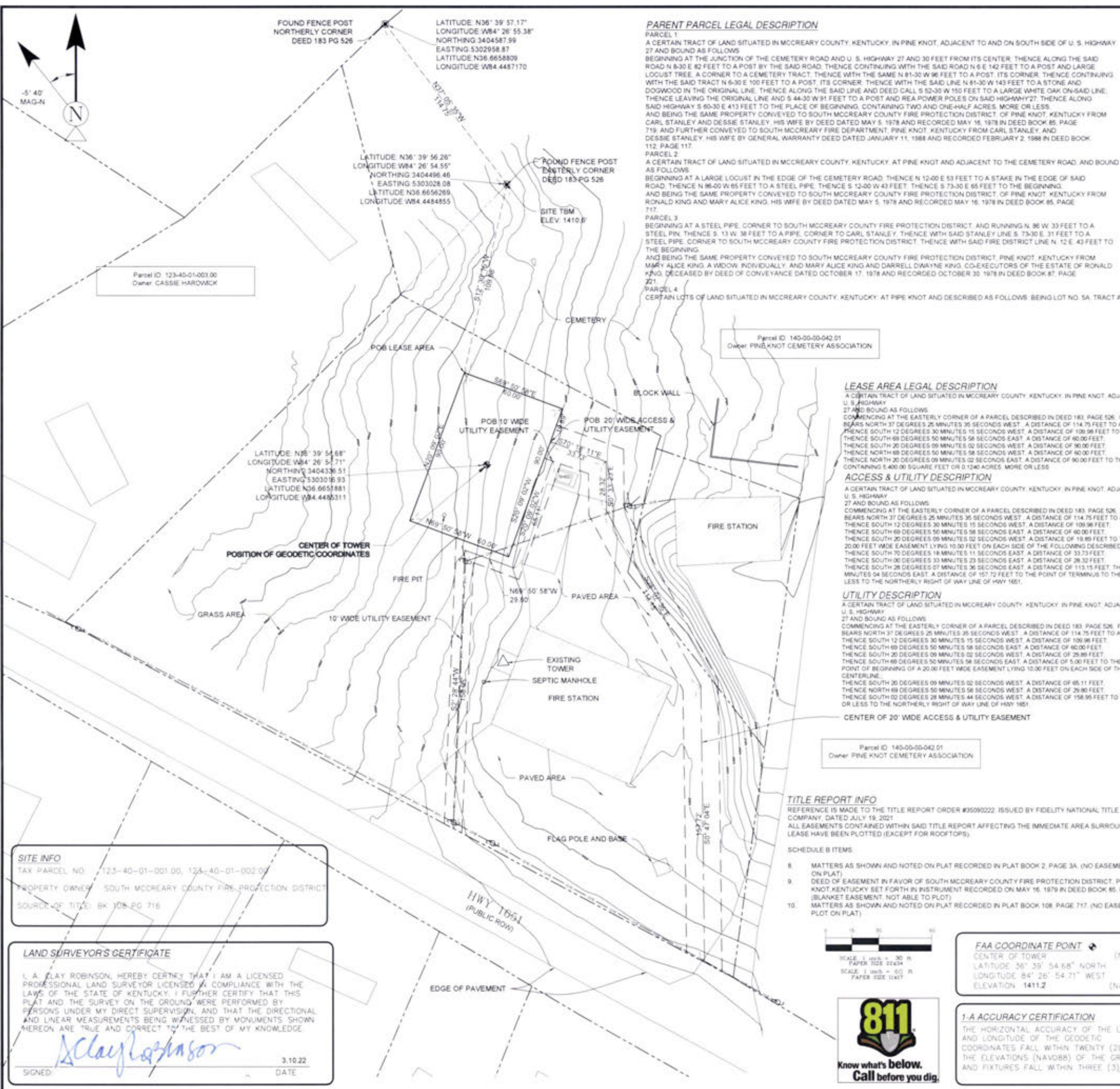
- T-1 TITLE SHEET
- B-1 SITE SURVEY
- B-2 500' RADIUS & ABUTTER'S MAP
- C-1 OVERALL SITE PLAN
- C-2 ENLARGED SITE PLAN
- C-3 ELEVATION
- C-4 GRADING PLAN
- C-5 CONSTRUCTION DETAILS
- C-5.1 SITE SIGNAGE
- C-6 GRADING PLAN
- C-7 EROSION CONTROL DETAILS
- E-1 UTILITY PLAN
- E-2 ENLARGED UTILITY PLAN
- E-3 ELECTRICAL DIAGRAM
- G-1 GROUNDING PLAN & DETAILS
- G-2 GROUNDING PLAN AND RISER DIAGRAM

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"X34" AND HALF SIZE AT 11"X17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

- THIS PROJECT CONSISTS OF
- CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY
 - SITE WORK: NEW TOWER, UNMANNED EQUIPMENT CABINET ON PLATFORM, AND UTILITY INSTALLATIONS



PARENT PARCEL LEGAL DESCRIPTION

PARCEL 1
A CERTAIN TRACT OF LAND SITUATED IN MCCREARY COUNTY, KENTUCKY, IN PINE KNOT, ADJACENT TO AND ON SOUTH SIDE OF U. S. HIGHWAY 27 AND BOUND AS FOLLOWS
BEGINNING AT THE JUNCTION OF THE CEMETERY ROAD AND U. S. HIGHWAY 27 AND 30 FEET FROM ITS CENTER, THENCE ALONG THE SAID ROAD N 83° E 82 FEET TO A POST BY THE SAID ROAD, THENCE CONTINUING WITH THE SAID ROAD N 6 E 142 FEET TO A POST AND LARGE LOCUST TREE, A CORNER TO A CEMETERY TRACT, THENCE WITH THE SAME N 81-30 W 96 FEET TO A POST, ITS CORNER, THENCE CONTINUING WITH THE SAID TRACT N 63° 30 E 100 FEET TO A POST, ITS CORNER, THENCE WITH THE SAID LINE N 81-30 W 143 FEET TO A STONE AND DOGWOOD IN THE ORIGINAL LINE, THENCE ALONG THE SAID LINE S 52-30 W 150 FEET TO A LARGE WHITE OAK ON-SIDE LINE, THENCE LEAVING THE ORIGINAL LINE AND S 44-30 W 91 FEET TO A POST AND REA POWER POLES ON SAID HIGHWAY 27, THENCE ALONG SAID HIGHWAY S 60-30 E 413 FEET TO THE PLACE OF BEGINNING, CONTAINING TWO AND ONE-HALF ACRES, MORE OR LESS, AND BEING THE SAME PROPERTY CONVEYED TO SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT, OF PINE KNOT, KENTUCKY FROM CARL STANLEY AND DESSIE STANLEY, HIS WIFE BY DEED DATED MAY 5, 1978 AND RECORDED MAY 16, 1978 IN DEED BOOK 85, PAGE 719, AND FURTHER CONVEYED TO SOUTH MCCREARY COUNTY FIRE DEPARTMENT, PINE KNOT, KENTUCKY FROM CARL STANLEY, AND DESSIE STANLEY, HIS WIFE BY GENERAL WARRANTY DEED DATED JANUARY 11, 1988 AND RECORDED FEBRUARY 2, 1988 IN DEED BOOK 132, PAGE 117.

PARCEL 2
A CERTAIN TRACT OF LAND SITUATED IN MCCREARY COUNTY, KENTUCKY, AT PINE KNOT AND ADJACENT TO THE CEMETERY ROAD, AND BOUND AS FOLLOWS
BEGINNING AT A LARGE LOCUST IN THE EDGE OF THE CEMETERY ROAD, THENCE N 12-00 E 53 FEET TO A STAKE IN THE EDGE OF SAID ROAD, THENCE N 96-00 W 65 FEET TO A STEEL PIPE, THENCE S 12-00 W 43 FEET, THENCE S 73-30 E 65 FEET TO THE BEGINNING, AND BEING THE SAME PROPERTY CONVEYED TO SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT, OF PINE KNOT, KENTUCKY FROM RONALD KING AND MARY ALICE KING, HIS WIFE BY DEED DATED MAY 5, 1978 AND RECORDED MAY 16, 1978 IN DEED BOOK 85, PAGE 717.

PARCEL 3
BEGINNING AT A STEEL PIPE, CORNER TO SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT, AND RUNNING N. 86 W. 33 FEET TO A STEEL PIN, THENCE S. 13 W. 38 FEET TO A PIPE, CORNER TO CARL STANLEY, THENCE WITH SAID STANLEY LINE S. 73-30 E. 31 FEET TO A STEEL PIPE, CORNER TO SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT, THENCE WITH SAID FIRE DISTRICT LINE N. 12 E. 43 FEET TO THE BEGINNING, AND BEING THE SAME PROPERTY CONVEYED TO SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT, PINE KNOT, KENTUCKY FROM MARY ALICE KING, A WIDOW, INDIVIDUALLY, AND MARY ALICE KING AND DARRELL DWAYNE KING, CO-EXECUTORS, THE ESTATE OF RONALD KING, DECEASED, BY DEED OF CONVEYANCE DATED OCTOBER 17, 1978 AND RECORDED OCTOBER 30, 1978 IN DEED BOOK 87, PAGE 221.

PARCEL 4
CERTAIN LOTS OF LAND SITUATED IN MCCREARY COUNTY, KENTUCKY, AT PIPE KNOT AND DESCRIBED AS FOLLOWS: BEING LOT NO. 5A, TRACT A.

LEASE AREA LEGAL DESCRIPTION
A CERTAIN TRACT OF LAND SITUATED IN MCCREARY COUNTY, KENTUCKY, IN PINE KNOT, ADJACENT TO AND ON SOUTH SIDE OF U. S. HIGHWAY 27 AND BOUND AS FOLLOWS
COMMENCING AT THE EASTERLY CORNER OF A PARCEL DESCRIBED IN DEED 183, PAGE 526, FROM WHICH A FENCE CORNER BEARS NORTH 37 DEGREES 25 MINUTES 35 SECONDS WEST, A DISTANCE OF 114.75 FEET TO A FOUND FENCE CORNER, THENCE SOUTH 12 DEGREES 30 MINUTES 15 SECONDS WEST, A DISTANCE OF 109.98 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 69 DEGREES 50 MINUTES 58 SECONDS EAST, A DISTANCE OF 40.00 FEET, THENCE SOUTH 20 DEGREES 09 MINUTES 02 SECONDS WEST, A DISTANCE OF 90.00 FEET, THENCE NORTH 69 DEGREES 50 MINUTES 58 SECONDS WEST, A DISTANCE OF 40.00 FEET, THENCE NORTH 20 DEGREES 09 MINUTES 02 SECONDS EAST, A DISTANCE OF 90.00 FEET TO THE POINT OF BEGINNING, CONTAINING 5,400.00 SQUARE FEET OR 0.1240 ACRES, MORE OR LESS.

ACCESS & UTILITY DESCRIPTION
A CERTAIN TRACT OF LAND SITUATED IN MCCREARY COUNTY, KENTUCKY, IN PINE KNOT, ADJACENT TO AND ON SOUTH SIDE OF U. S. HIGHWAY 27 AND BOUND AS FOLLOWS
COMMENCING AT THE EASTERLY CORNER OF A PARCEL DESCRIBED IN DEED 183, PAGE 526, FROM WHICH A FENCE CORNER BEARS NORTH 37 DEGREES 25 MINUTES 35 SECONDS WEST, A DISTANCE OF 114.75 FEET TO A FOUND FENCE CORNER, THENCE SOUTH 12 DEGREES 30 MINUTES 15 SECONDS WEST, A DISTANCE OF 109.98 FEET, THENCE SOUTH 69 DEGREES 50 MINUTES 58 SECONDS EAST, A DISTANCE OF 40.00 FEET, THENCE SOUTH 20 DEGREES 09 MINUTES 02 SECONDS WEST, A DISTANCE OF 19.89 FEET TO THE POINT OF BEGINNING OF A 20.00 FEET WIDE EASEMENT LYING 10.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, THENCE SOUTH 70 DEGREES 18 MINUTES 11 SECONDS EAST, A DISTANCE OF 33.73 FEET, THENCE SOUTH 00 DEGREES 33 MINUTES 23 SECONDS EAST, A DISTANCE OF 28.32 FEET, THENCE SOUTH 28 DEGREES 27 MINUTES 39 SECONDS EAST, A DISTANCE OF 113.15 FEET, THENCE SOUTH 00 DEGREES 47 MINUTES 04 SECONDS EAST, A DISTANCE OF 157.72 FEET TO THE POINT OF TERMINUS TO THE POINT OF TERMINUS MORE OR LESS TO THE NORTHERLY RIGHT OF WAY LINE OF HWY 1651.

UTILITY DESCRIPTION
A CERTAIN TRACT OF LAND SITUATED IN MCCREARY COUNTY, KENTUCKY, IN PINE KNOT, ADJACENT TO AND ON SOUTH SIDE OF U. S. HIGHWAY 27 AND BOUND AS FOLLOWS
COMMENCING AT THE EASTERLY CORNER OF A PARCEL DESCRIBED IN DEED 183, PAGE 526, FROM WHICH A FENCE CORNER BEARS NORTH 37 DEGREES 25 MINUTES 35 SECONDS WEST, A DISTANCE OF 114.75 FEET TO A FOUND FENCE CORNER, THENCE SOUTH 12 DEGREES 30 MINUTES 15 SECONDS WEST, A DISTANCE OF 109.98 FEET, THENCE SOUTH 69 DEGREES 50 MINUTES 58 SECONDS EAST, A DISTANCE OF 40.00 FEET, THENCE SOUTH 20 DEGREES 09 MINUTES 02 SECONDS WEST, A DISTANCE OF 29.89 FEET, THENCE SOUTH 48 DEGREES 50 MINUTES 58 SECONDS EAST, A DISTANCE OF 5.00 FEET TO THE POINT OF BEGINNING, TO THE POINT OF BEGINNING OF A 20.00 FEET WIDE EASEMENT LYING 10.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE, THENCE SOUTH 20 DEGREES 09 MINUTES 02 SECONDS WEST, A DISTANCE OF 65.11 FEET, THENCE NORTH 69 DEGREES 50 MINUTES 58 SECONDS WEST, A DISTANCE OF 29.80 FEET, THENCE SOUTH 02 DEGREES 28 MINUTES 44 SECONDS WEST, A DISTANCE OF 158.95 FEET TO THE POINT OF TERMINUS MORE OR LESS TO THE NORTHERLY RIGHT OF WAY LINE OF HWY 1651.

TITLE REPORT INFO
REFERENCE IS MADE TO THE TITLE REPORT ORDER #35090222, ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, DATED JULY 19, 2021
ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED (EXCEPT FOR ROOFTOPS).

SCHEDULE B ITEMS

- MATTERS AS SHOWN AND NOTED ON PLAT RECORDED IN PLAT BOOK 2, PAGE 3A. (NO EASEMENTS TO PLOT ON PLAT)
- DEED OF EASEMENT IN FAVOR OF SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT, PINE KNOT, KENTUCKY SET FORTH IN INSTRUMENT RECORDED ON MAY 16, 1979 IN DEED BOOK 85, PAGE 721. (BLANKET EASEMENT, NOT ABLE TO PLOT)
- MATTERS AS SHOWN AND NOTED ON PLAT RECORDED IN PLAT BOOK 108, PAGE 717. (NO EASEMENTS TO PLOT ON PLAT)



FAA COORDINATE POINT

CENTER OF TOWER (NAD83)
LATITUDE 36° 39' 54.68" NORTH
LONGITUDE 84° 26' 54.71" WEST
ELEVATION 1411.2 (NAVD86)

1-A ACCURACY CERTIFICATION
THE HORIZONTAL ACCURACY OF THE LATITUDE AND LONGITUDE OF THE GEODETIC COORDINATES FALL WITHIN TWENTY (20) FEET. THE ELEVATIONS (NAVD86) OF THE GROUND AND FIXTURES FALL WITHIN THREE (3) FEET.



BENCHMARK
ELEVATION ESTABLISHED FROM GPS OBSERVATIONS, CONSTRAINED TO OPUS SOLUTIONS, APPLYING GEOID 12A SEPARATIONS NAVD88 DATUM.

BASIS OF BEARINGS
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM, KENTUCKY SINGLE ZONE US FOOT, DETERMINED BY GPS OBSERVATIONS, COMPLETED ON 9-1-2021

UTILITY NOTES
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT LOCAL B11 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SURVEYOR NOTES
NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS AND UTILITY EASEMENT ONLY, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED.

THIS PROPERTY IS SUBJECT TO ANY RECORD EASEMENTS AND/OR RIGHT OF WAY SHOWN HEREON OR NOT.

THIS SURVEY IS NOT INTENDED FOR LAND TRANSFER.

SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

THIS SURVEY PLAN IS NOT TO BE CONSIDERED A GENERAL PROPERTY BOUNDARY SURVEY. DIMENSIONS (IF SHOWN) ALONG THE PERIMETER OF THE LANDOWNER'S PROPERTY ARE PROVIDED UNDER THIS SURVEYOR'S SCOPE OF SERVICES WITH AT&T AND ARE TO BE CONSIDERED FOR REFERENCE ONLY. THE EXACT LOCATION OF THE LANDOWNER'S PROPERTY MAY DIFFER UPON THE PREPARATION OF A FULL BOUNDARY SURVEY IN ACCORDANCE WITH THE REQUIREMENTS ESTABLISHED BY THE STATE OF KENTUCKY.

THIS SURVEY WAS PERFORMED WITH A CARLSON BRX5+ DUAL FREQUENCY, REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM ROVER AND BASE STATION H/W B16130147501133 & B16130147501126 SERIAL NUMBERS, REDUNDANT AND REPEITIVE MEASUREMENTS WERE TAKEN TO INSURE CORRECT POSITIONS OF ALL DATA POINTS. A TOLERANCE OF 0.04' FOR POSITIONAL ACCURACY.

FLOOD INFORMATION
THE PROPOSED LEASE AREA SHOWN HEREON IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NO. 21147C0275C, DATED 03/16/2015. THE PROPOSED LEASE AREA IS LOCATED IN ZONE "X".

LEGEND

- POB POINT OF BEGINNING
- POT POINT OF TERMINUS
- PUE PUBLIC UTILITY EASEMENT
- ROW RIGHT OF WAY
- DW DRIVEWAY
- SW SIDEWALK
- FOUND AS NOTED
- SPOT ELEVATION
- POSITION OF GEODETIC COORDINATES
- WATER CONTROL VALVE
- FIRE HYDRANT
- POWER POLE
- ELECTRIC MANHOLE
- TELCO MANHOLE
- OVERHEAD ELECTRIC
- PROPERTY LINE
- BARBED WIRE FENCE

SITE INFO
TAX PARCEL NO. 123-40-01-001.00, 123-40-01-002.00
PROPERTY OWNER: SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT
SOURCE OF TITLE: BK JOB PG 716

LAND SURVEYOR'S CERTIFICATE
I, A CLAY ROBINSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE STATE OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

SIGNED: *Clay Robinson* DATE: 3.10.22



604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847.277.0070
FAX: 847.277.0080
ae@westchesterservices.com



DRAWN BY: MD
CHECKED BY: ACR

REV	DATE	DESCRIPTION
1	9.14.2021	REVIEW
2	12.3.2021	CLIENT COMMENTS



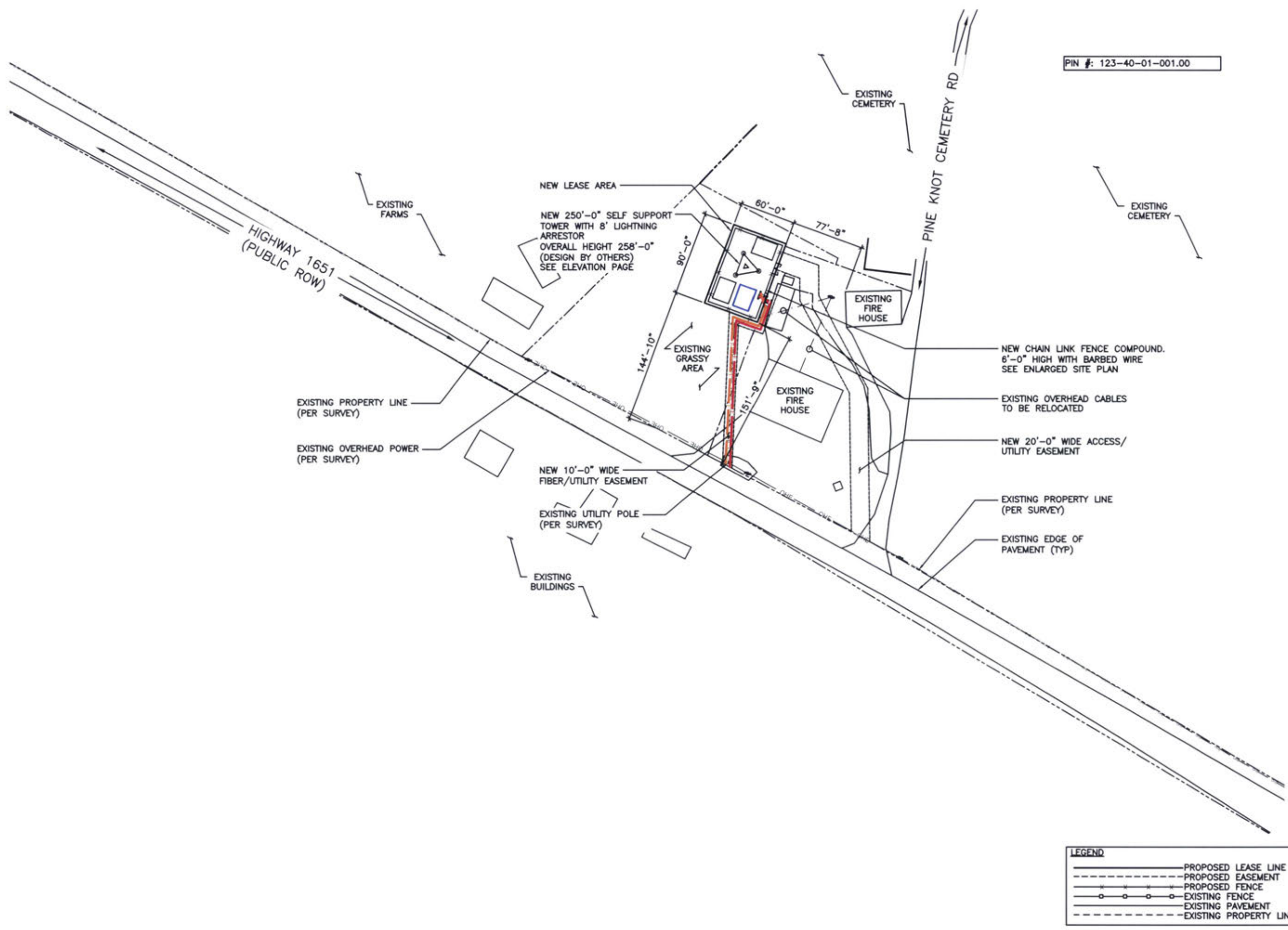
FA # 15612904
SITE # TI-OPP-18773
SITE NAME:
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635
MCCREARY COUNTY

SHEET TITLE
TOPOGRAPHIC SITE SURVEY

SHEET NUMBER
B-1



THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



LEGEND

- PROPOSED LEASE LINE
- - - PROPOSED EASEMENT
- x - x - x PROPOSED FENCE
- o - o - o EXISTING FENCE
- - - EXISTING PAVEMENT
- - - EXISTING PROPERTY LINE

SCALE: 1" = 50'-0" (24x36)
(OR) 1/2" = 50'-0" (11x17)



JOHN M. BANKS ARCHITECT
604 FOX GLEN
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TELEPHONE: 847-277-0070
FAX : 847-277-0080
EMAIL: JBANKS@WESTCHESTERSERVICES.COM



KY FIRM NO. 5130
604 FOX GLEN
BARRINGTON, IL 60010
PHONE: 847-277-0070
EMAIL: AEO@Westchesterservices.com

DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
DATE: 03/31/22
PHILIP PHILLIPS
35592
PROFESSIONAL ENGINEER
EXP. DATE: 06/30/22

TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME:
PINE KNOT RELO
FA# 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

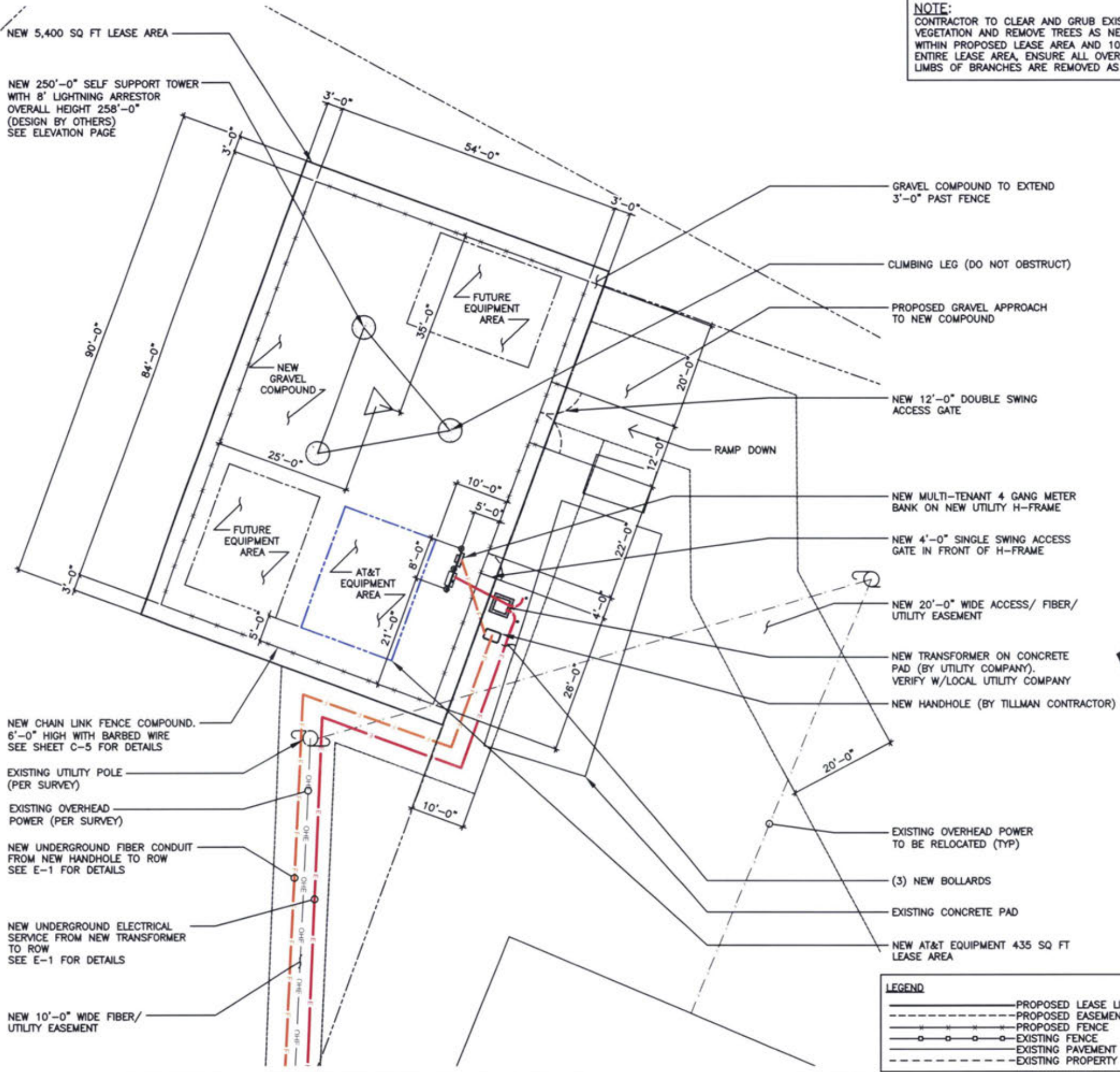
SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1



GENERAL NOTES

1. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE AT&T CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
8. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES AND NOTIFY UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION AT PRIOR TO EXCAVATION AT SITE.
9. ANY UNDERGROUND UTILITIES OR STRUCTURES THAT EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.
10. NO SIGNIFICANT NOISE, SMOKE, DUST, OR ODOR WILL RESULT FROM THIS FACILITY.
11. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
12. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
13. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.
14. THERE ARE NO COMMERCIAL SIGNS PROPOSED FOR THIS INSTALLATION.
15. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
16. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
MAXIMUM SOIL LIFTS:
JUMPING JACK - 3"
CROWS FOOT TRENCH ROLLER - 6"
HOE OPERATED VIBRATORY PLATE - 8"
WHEELED VIBRATORY SOIL COMPACTOR - 12"
*LIFT HEIGHTS MAY NEED TO BE ADJUSTED DEPENDING ON SOIL TYPES AND MOISTURE CONTENT.
17. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY UTILITY OWNER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES.
18. THE AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITY SHALL BE GRADED AND RESTORED PER CODE/LANDLORD REQUIREMENTS (REFER TO GRADING PLAN).
19. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AND COORDINATED WITH THE MUNICIPALITY.
20. UTILITY WARNING TAPE SHALL BE PLACED ABOVE ALL NEW CONDUITS AT MAX 18" DEPTH BELOW GRADE.



NOTE:
CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION AND REMOVE TREES AS NEEDED WITHIN PROPOSED LEASE AREA AND 10' AROUND ENTIRE LEASE AREA. ENSURE ALL OVERHANGING LIMBS OF BRANCHES ARE REMOVED AS WELL.



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
DATE: 03/29/22
35592
PHILIP
PROFESSIONAL ENGINEER
EXP. DATE: 06/30/22

TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME:
PINE KNOT RELO
FA# 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-2

LEGEND

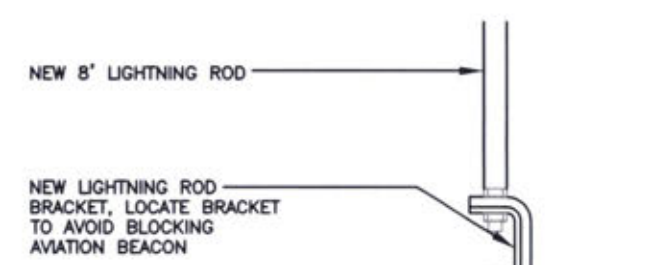
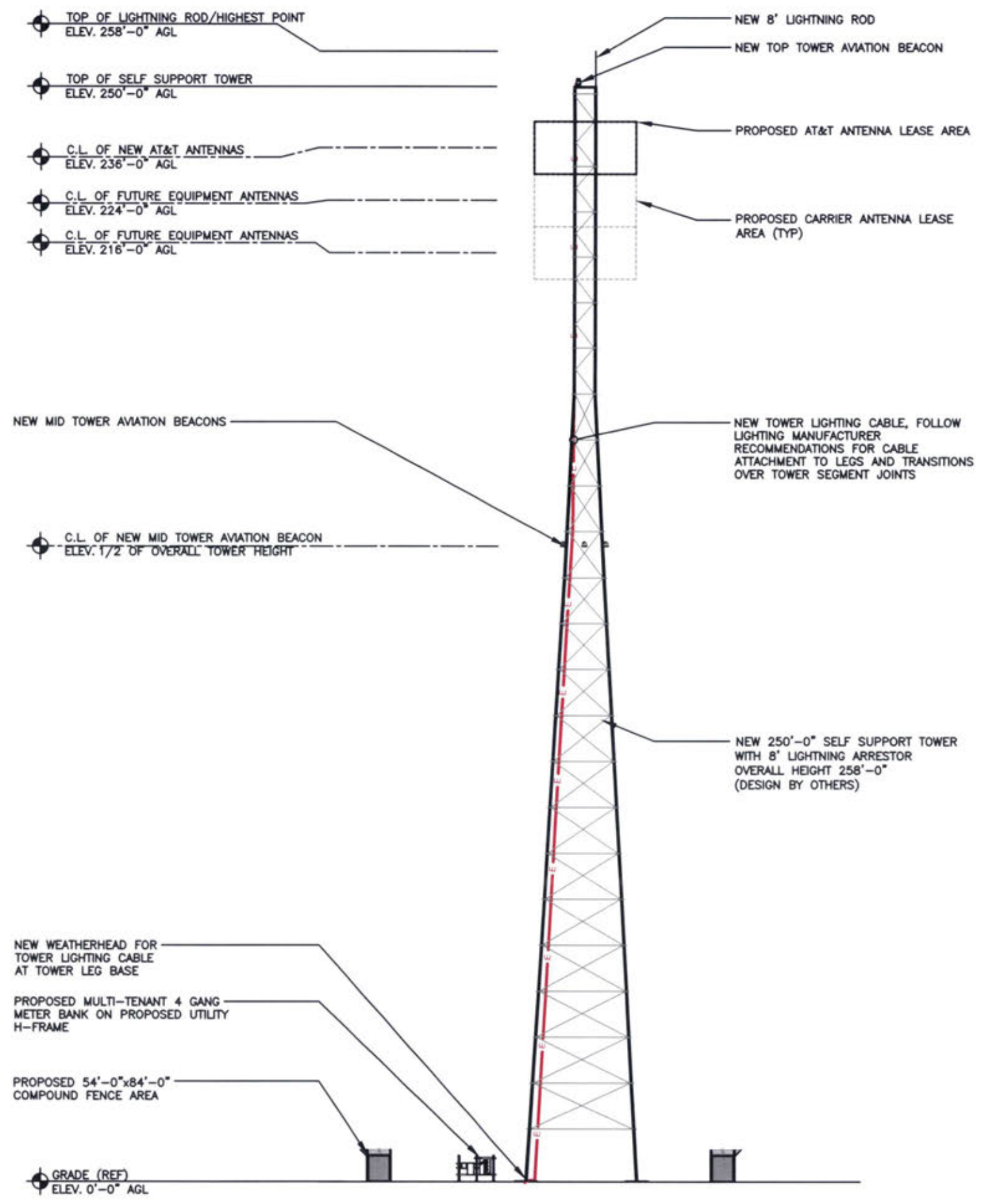
- PROPOSED LEASE LINE
- - - PROPOSED EASEMENT
- - - - PROPOSED FENCE
- - - - - EXISTING FENCE
- - - - - EXISTING PAVEMENT
- - - - - EXISTING PROPERTY LINE

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17)

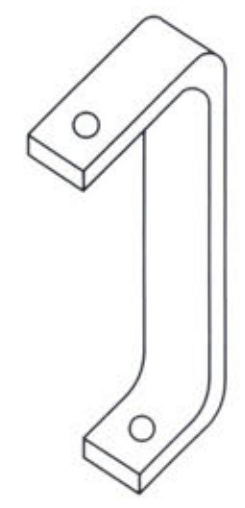
ENLARGED SITE PLAN

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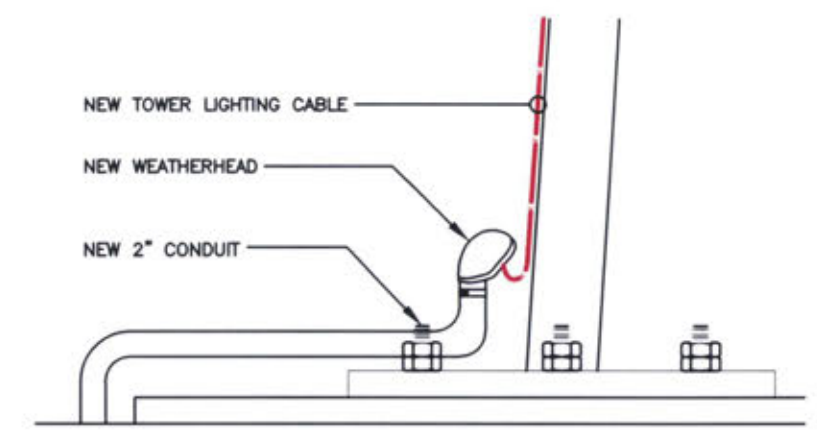
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LIGHTNING ROD DETAIL



LIGHTNING ROD BRACKET



TOWER LIGHTING CABLE AT TOWER BASE



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 EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM
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TILLMAN OPP# TI-OPP-18773
 TILLMAN SITE NAME:
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 FA# 15312904
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 5787 S. HWY 1651
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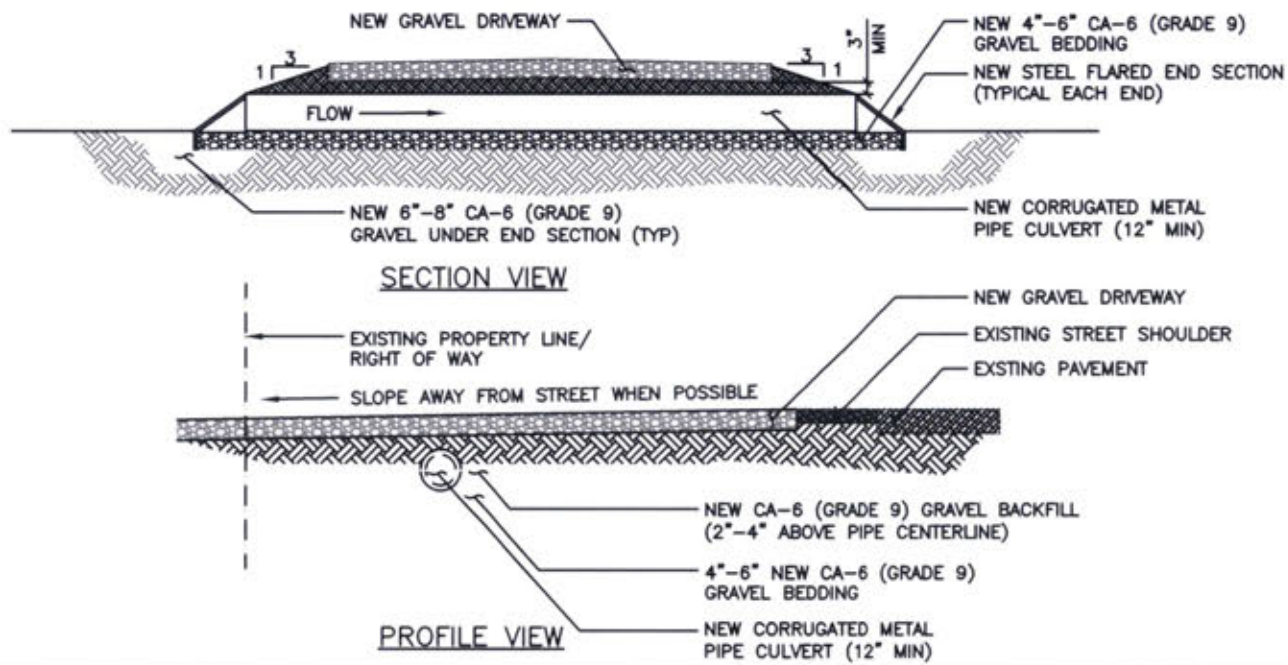
SHEET TITLE
ELEVATION

SHEET NUMBER
C-3

ELEVATION

SCALE
 N.T.S. **1**

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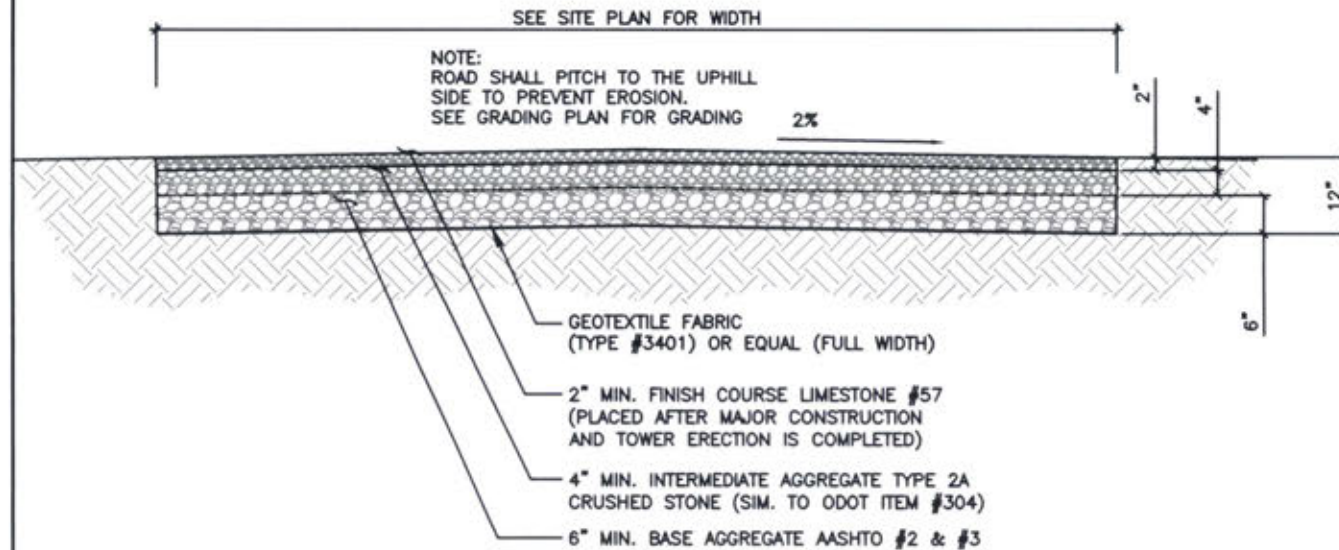


CULVERT DETAIL (IF REQUIRED)

SCALE
N.T.S. **6**

NOT USED

SCALE
N.T.S. **5**

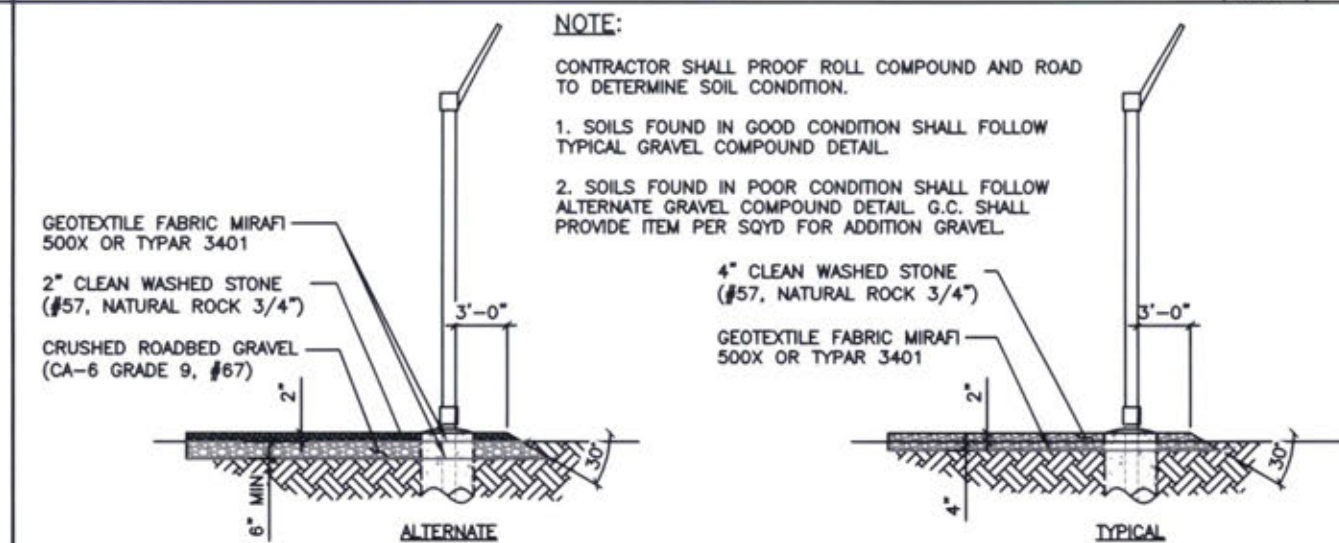


NOT USED

SCALE
N.T.S. **4**

ACCESS DRIVE DETAIL

SCALE
N.T.S. **3**



NOT USED

SCALE
N.T.S. **2**

GRAVEL COMPOUND DETAIL

SCALE
N.T.S. **1**

TILLMAN
INFRASTRUCTURE

LCC
TELECOM SERVICES

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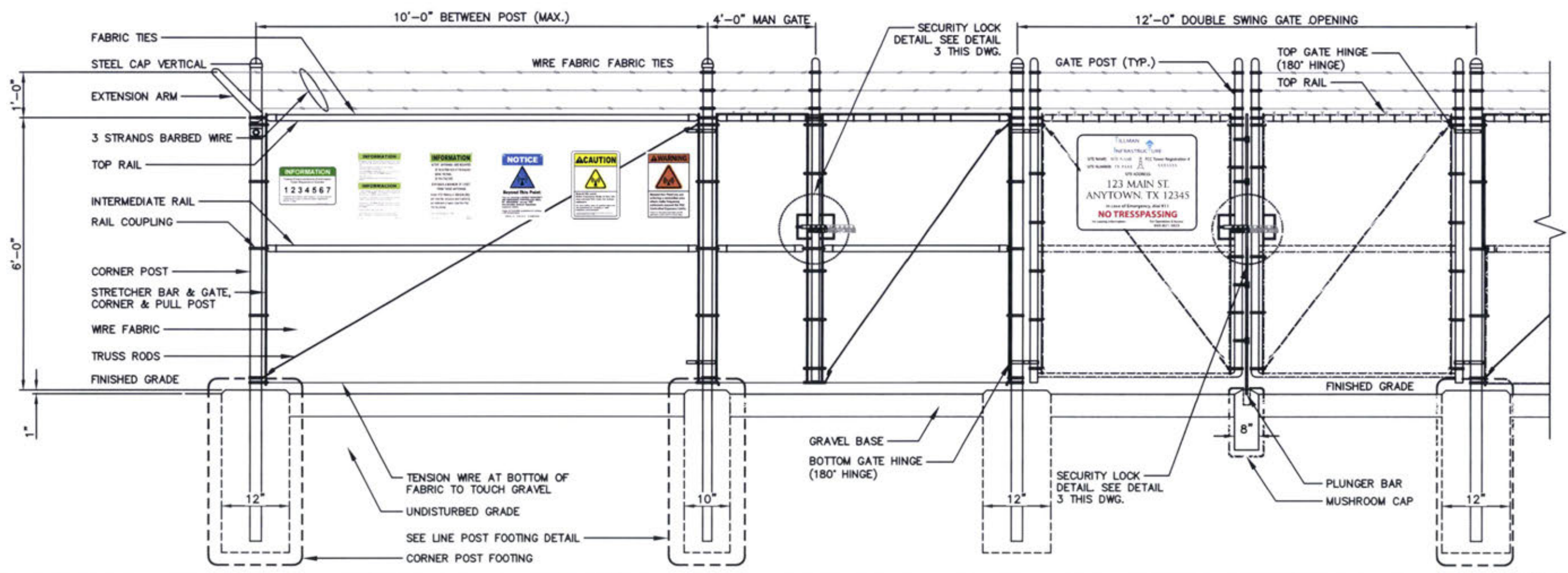
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
DATE: 03/31/22
PHILIP
35592
LICENSED PROFESSIONAL ENGINEER
EXP. DATE: 06/30/22

TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME:
PINE KNOT RELO
FA# 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
GRADING
DETAILS

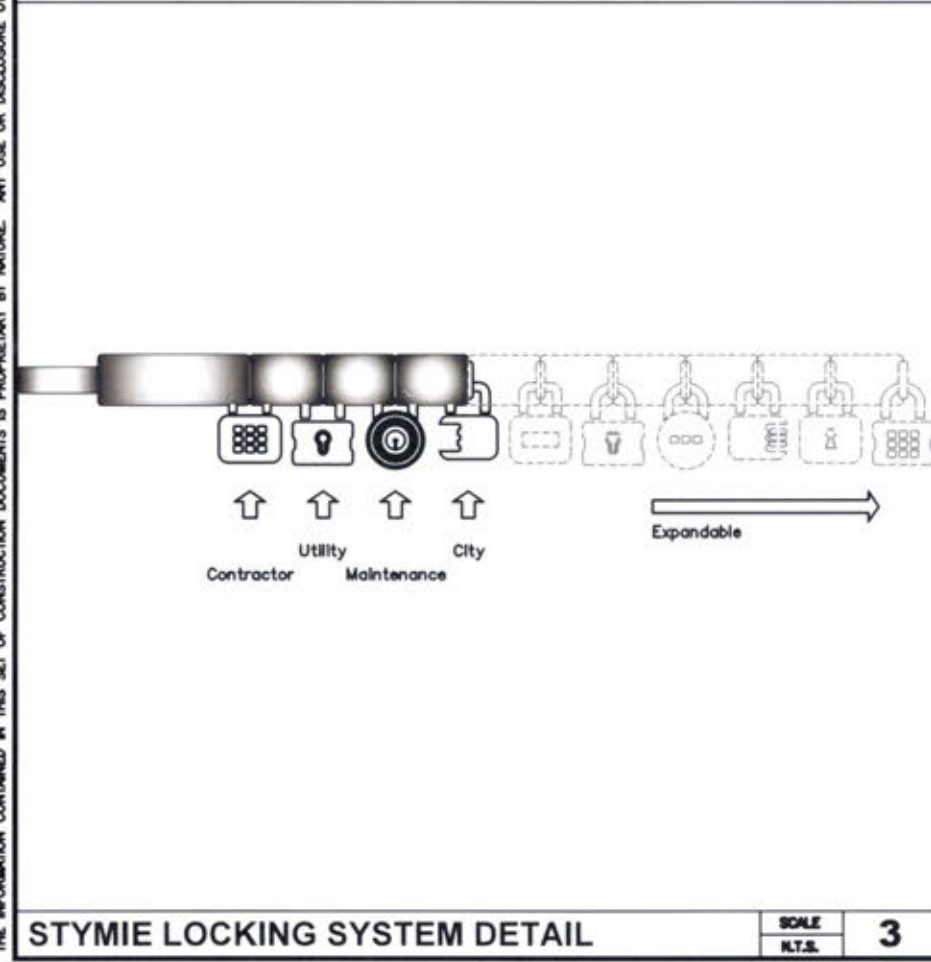
SHEET NUMBER
C-4

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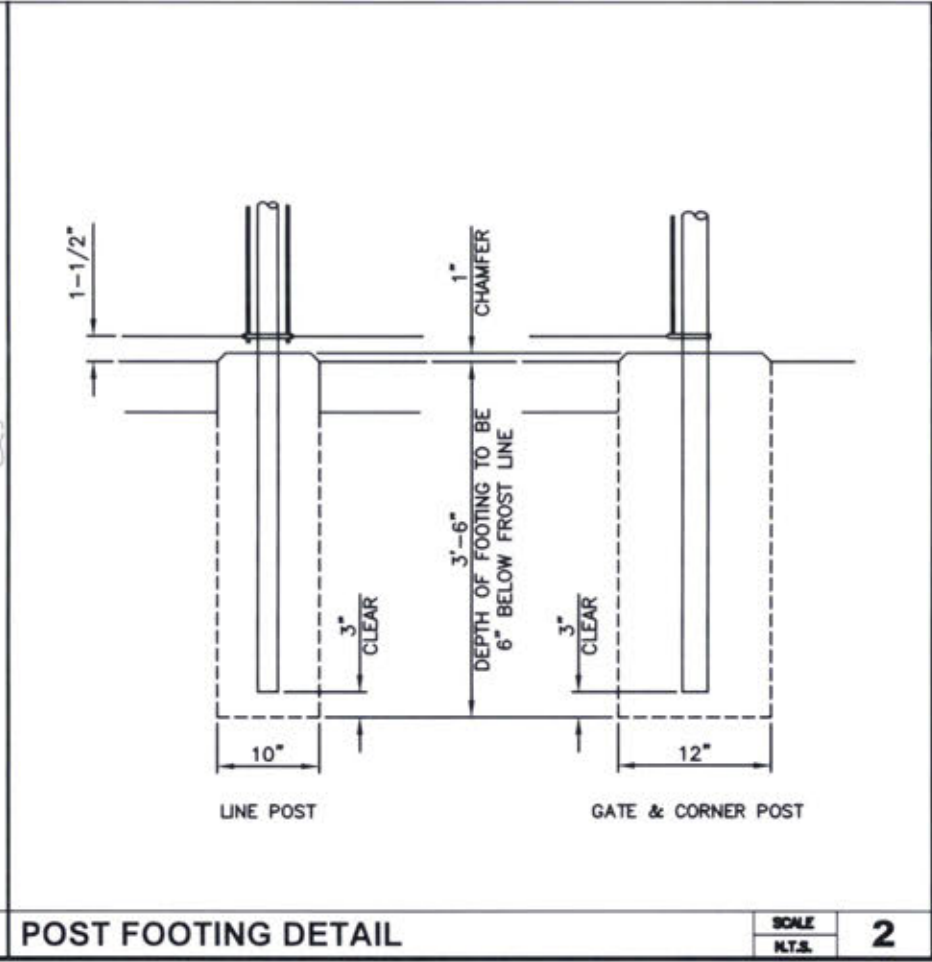
FENCE/ GATE & GATE STOP DETAIL

SCALE
N.T.S. 4



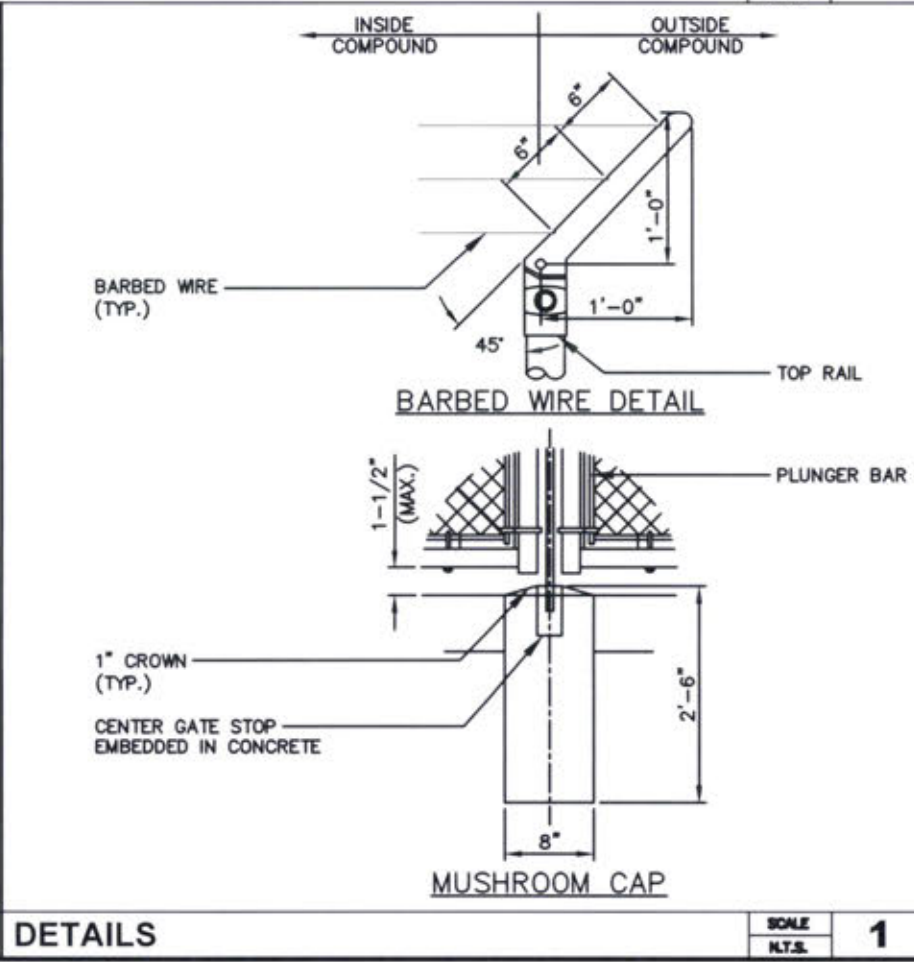
STYMIE LOCKING SYSTEM DETAIL

SCALE
N.T.S. 3



POST FOOTING DETAIL

SCALE
N.T.S. 2



DETAILS

SCALE
N.T.S. 1



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 EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM
 CHECKED BY: MC

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 DATE: 03/31/22

Philip H. Banks
 PHILIP H. BANKS
 35592
 LICENSED PROFESSIONAL ENGINEER
 EXP. DATE: 06/30/22

TILLMAN OPP# TI-OPP-18773
 TILLMAN SITE NAME:
 PINE KNOT RELO
 FA# 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C-5

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WHITE BACKGROUND, RED/BLACK LETTERING
 MOUNTING LOCATION: SHELTER OR TENANT IMPROVEMENT ROOM DOOR.
 IF OUTDOOR CABINET SITE PLACE ON END CABINET CLOSEST TO SITE ACCESS POINT.
 PLACE ON GENERATOR.
 QUANTITY: 1 TO 2

SIGNAGE NOTES:

- SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL & PAINTED WITH LONG LASTING UV RESISTANT COATING.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (FENCE) OR BRACKETS, WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- ADDITIONAL E911 ADDRESS & FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS THE COMPOUND GATE ITSELF.
- SIGNS NEED NOT BE PLACED IF ACCURATE AND APPROPRIATE SIGNAGE ALREADY EXISTS.

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: GATE & BASE OF TOWER
 QUANTITY: 2

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: GATE & BASE OF TOWER
 QUANTITY: 2

DRAWN BY:	DWM	
CHECKED BY:	MC	
REV	DATE	DESCRIPTION
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1	03/31/22	PERMIT/CONSTRUCTION

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 DATE: 03/31/22

 EXP. DATE: 06/30/27

TILLMAN OPP# TI-OPP-18773
 TILLMAN SITE NAME:
 PINE KNOT RELO
 FAX# 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

PROPERTY OF TILLMAN INFRASTRUCTURE

SCALE 7 N.T.S. FCC REGISTRATION SIGN

SCALE 6 N.T.S. RF EXPOSURE INFORMATION SIGN

SCALE 5 N.T.S.

WHITE/GREEN BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: GATE & BASE OF TOWER
 QUANTITY: 2

WHITE/BLUE BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: GATE & BASE OF TOWER
 QUANTITY: 1

WHITE/YELLOW BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: GATE & BASE OF TOWER
 QUANTITY: 1

WHITE/ORANGE BACKGROUND, WHITE/BLACK LETTERING
 MOUNTING LOCATION: GATE & BASE OF TOWER
 QUANTITY: 1

SCALE 4 N.T.S. RF EXPOSURE INFORMATION SIGN

SCALE 3 N.T.S. RF EXPOSURE NOTICE SIGN

SCALE 2 N.T.S. RF EXPOSURE CAUTION SIGN

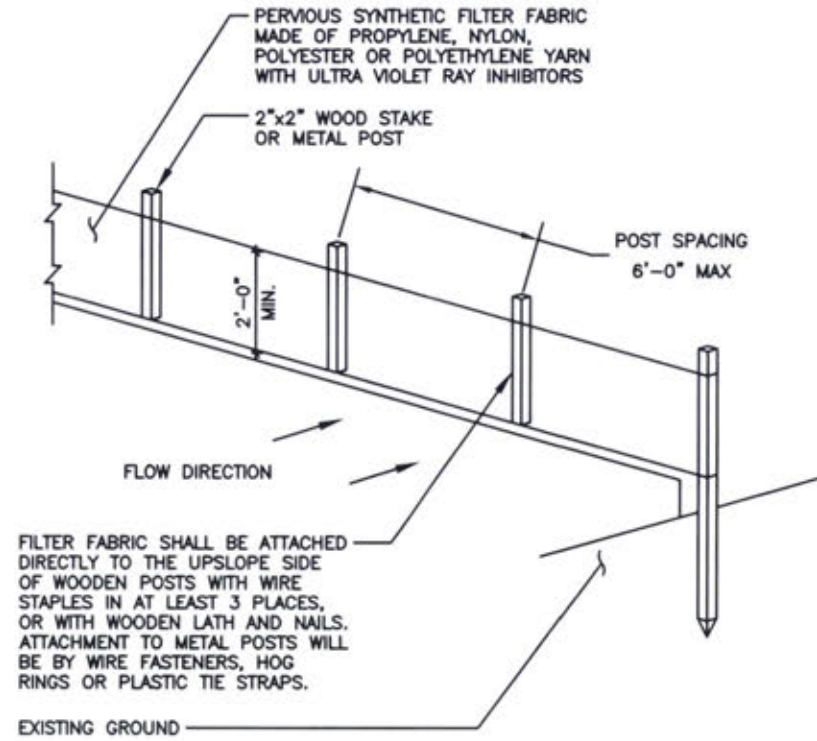
SCALE 1 N.T.S. RF EXPOSURE WARNING SIGN

SHEET TITLE
 SITE SIGNAGE

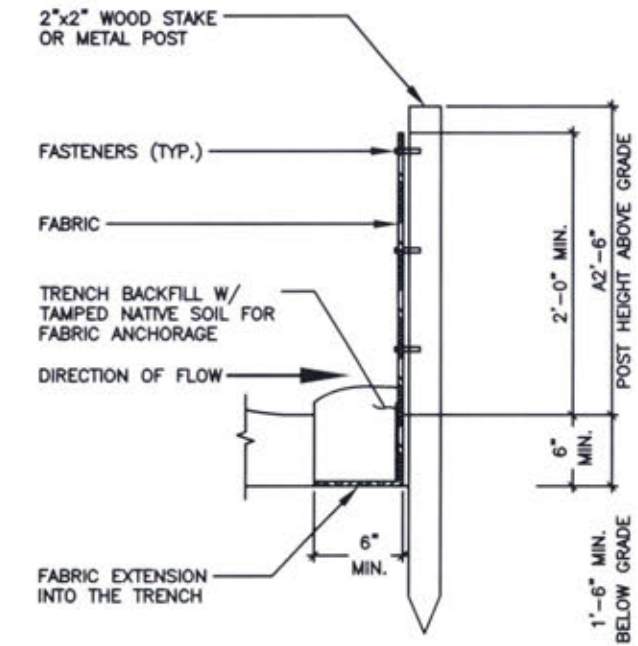
SHEET NUMBER
C-5.1

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- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE APPLICABLE STATE ADOPTED "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL" OF THE STATE ENVIRONMENTAL PROTECTION AGENCY.
- A SOIL EROSION CONTROL FENCE SHALL BE INSTALLED BEFORE DISTURBING THE GROUND AND SHALL BE PROVIDED AS SHOWN ON THE PLAN. THE CONDITION OF THE FENCE SHALL BE INSPECTED REGULARLY AND AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION
- SOIL EROSION CONTROL MEASURES SHALL BE INCLUDED IN CONTRACTOR BID AND PRICING
- THE ENTIRE SITE SHALL BE GRADED SO THAT NO STORM WATER RUNOFF AND LIKEWISE SOIL SEDIMENT CAN FLOW UNRESTRICTED FROM THE SITE
- ALL INLETS, STRUCTURES, PIPES, SWALES, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT
- MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH THE DURATION OF THIS PROJECT
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF THE BARRIER
- ALL SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED
- ANY EXCESS TOPSOIL THAT IS TO BE STOCKPILED FOR A PERIOD LONGER THAN 2 WEEKS SHALL BE PROTECTED BY EXCAVATING A TRENCH COMPLETELY AROUND THE STOCKPILE TO PREVENT THE ESCAPE OF SOIL MATERIAL THROUGH STORM WATER RUNOFF. STOCKPILES THAT ARE TO REMAIN LONGER THAN 14 DAYS SHALL BE SEEDDED WITH AN APPROPRIATE GROUND COVER
- TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, TEMPORARY GRAVEL ROADS AT WORK ENTRANCES SHALL BE CONSTRUCTED AND SHALL EXTEND INTO JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY
- REPLACE SOIL EROSION CONTROL MEASURES WITH SEED, SOD AND TOPSOIL AT THE COMPLETION OF THE PROJECT
- SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN PROJECT IS COMPLETED



ISOMETRIC VIEW



SECTION VIEW

SOIL EROSION & SEDIMENT CONTROL NOTES

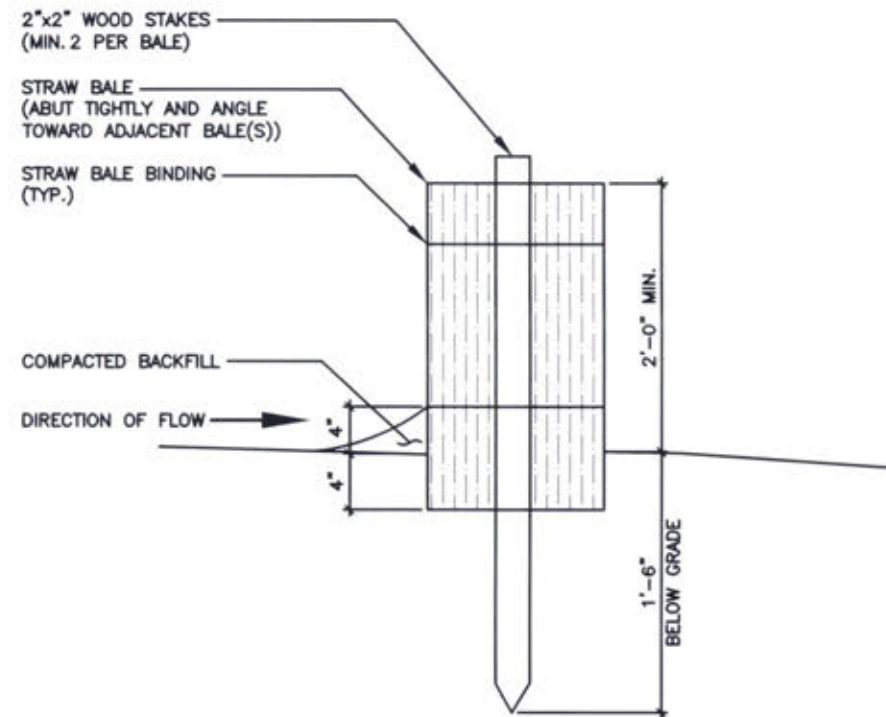
SCALE N.T.S.

4

EROSION CONTROL - SILT FENCE

SCALE N.T.S.

2



SECTION VIEW

EROSION CONTROL - STRAW BALE (OPTIONAL)

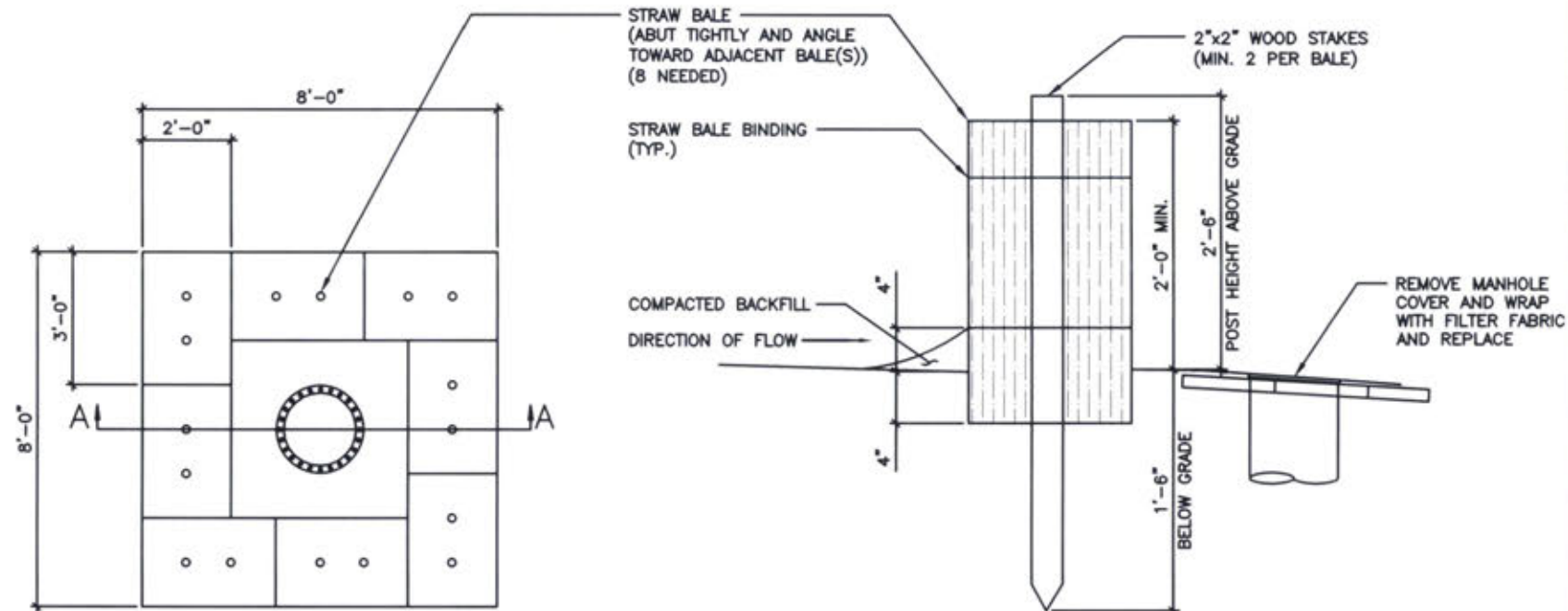
SCALE N.T.S.

3

EROSION CONTROL - STRAW BALE AT STORM INLET MANHOLE (IF NEEDED SEE PLANS)

SCALE N.T.S.

1



SECTION VIEW A-A



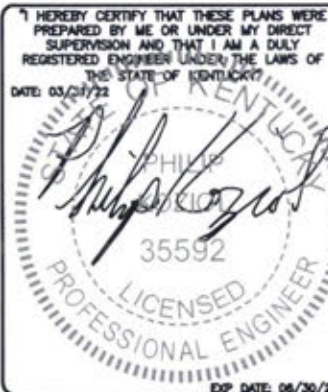
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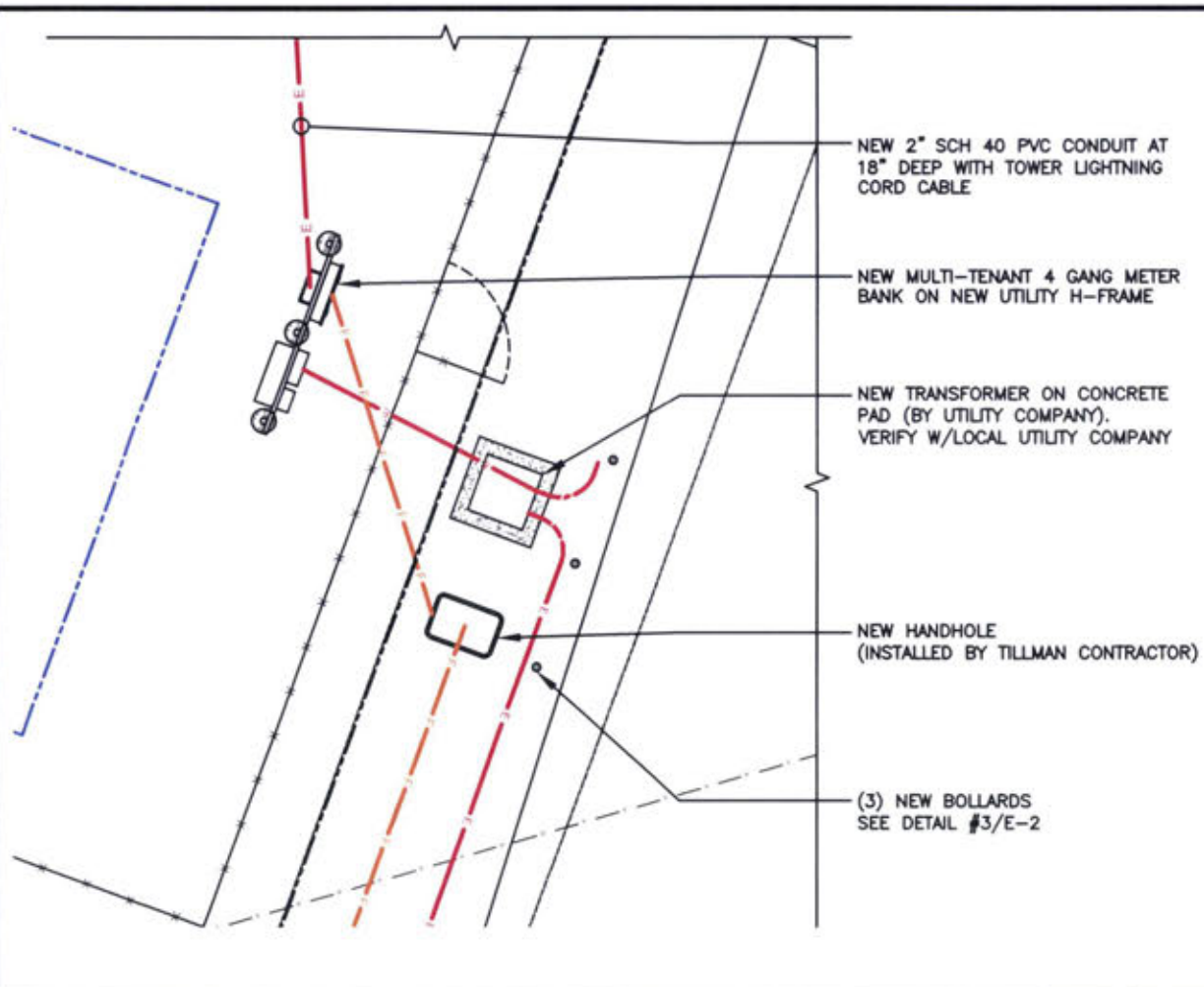


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 FAX 15312904
 SITE ADDRESS:
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 PINE KNOT, KY 42635

SHEET TITLE
**EROSION CONTROL
 DETAILS**

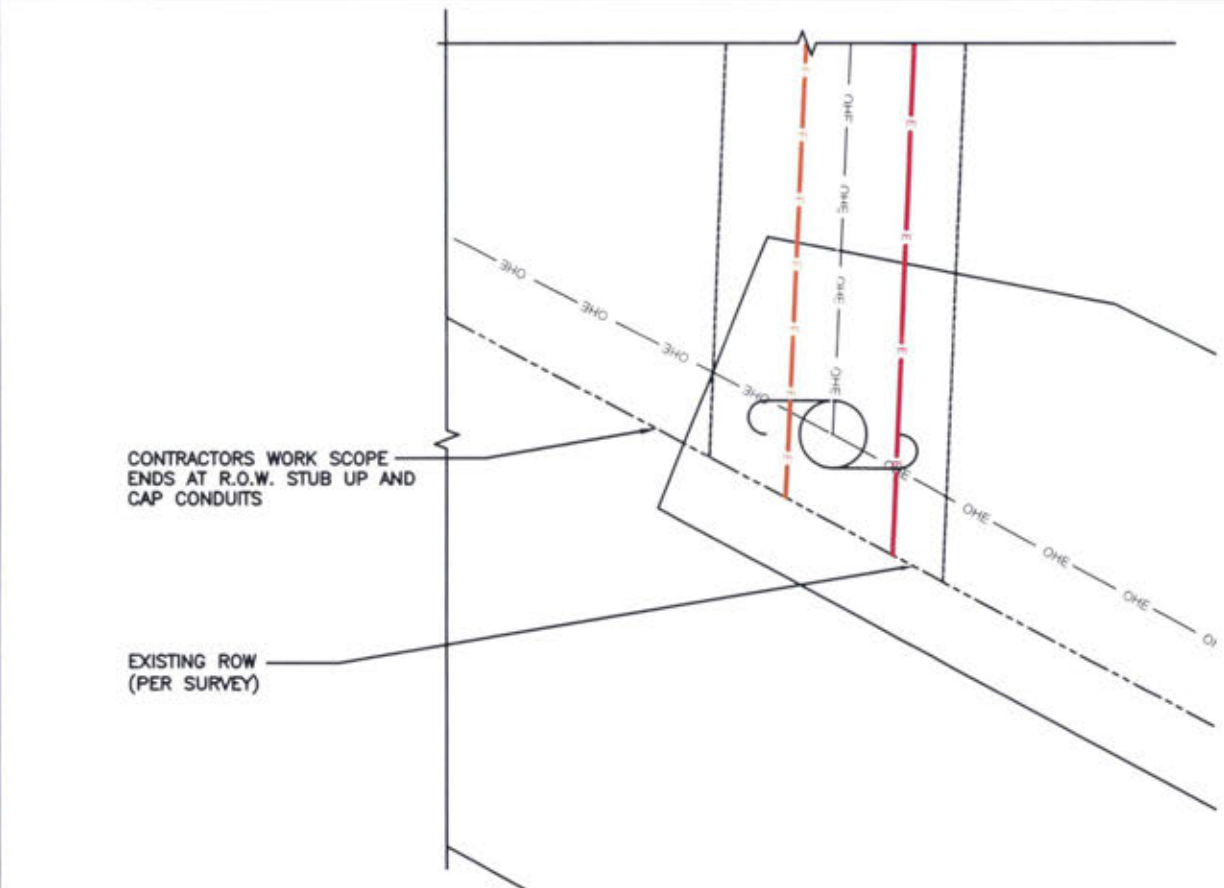
SHEET NUMBER
C-7

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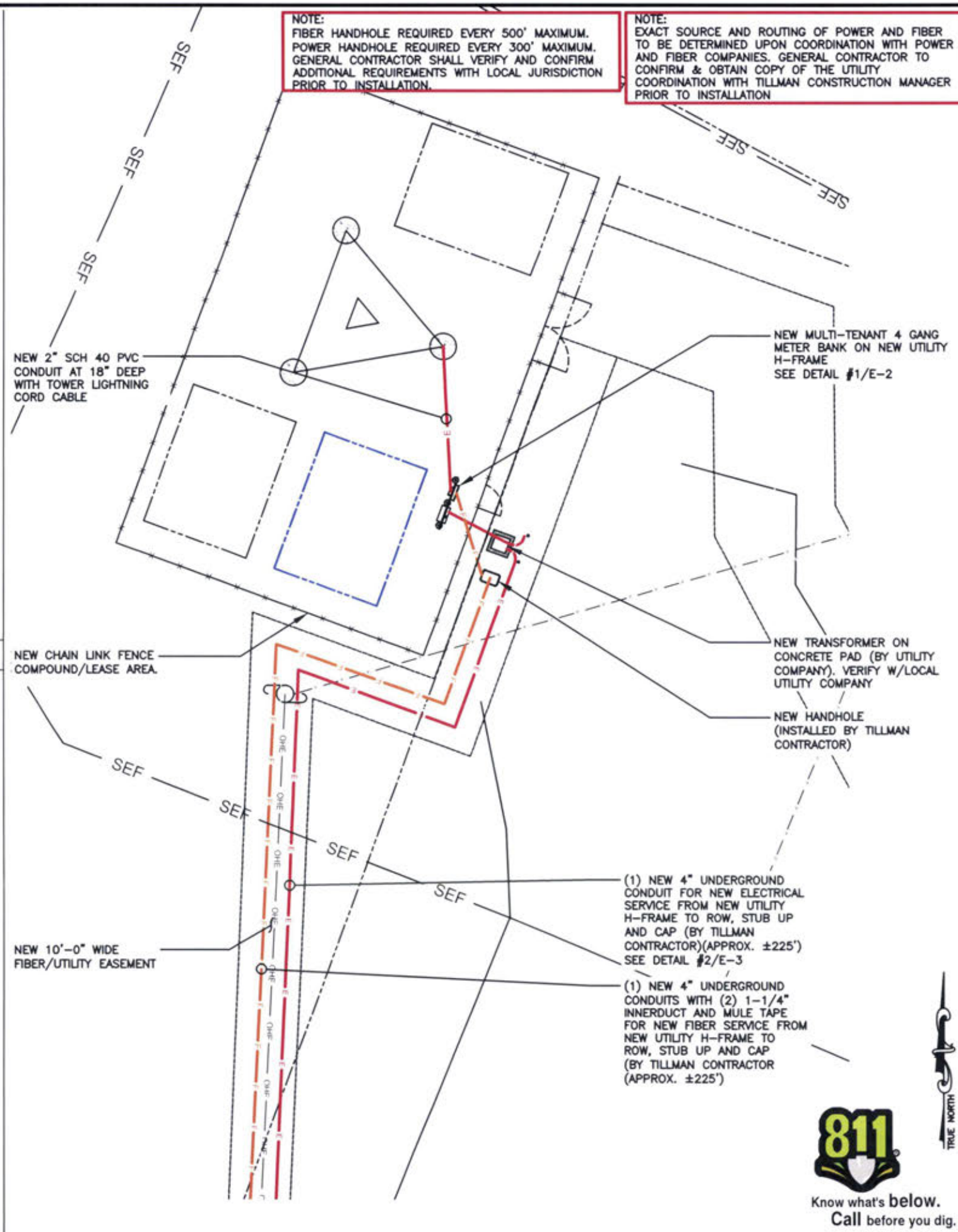
ENLARGED VIEW OF H-FRAME

SCALE
N.T.S. **2**



ENLARGED VIEW OF ROW

SCALE
N.T.S. **2**



UTILITY PLAN

SCALE: 1" = 10'-0" (24x36)
(OR) 1/2" = 10'-0" (11x17) **1**



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DATE: 03/31/22
Philip Stogdole
35592
PROFESSIONAL ENGINEER
EXP. DATE: 06/30/23

TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME:
PINE KNOT RELO
FA# 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
UTILITY PLAN

SHEET NUMBER
E-1



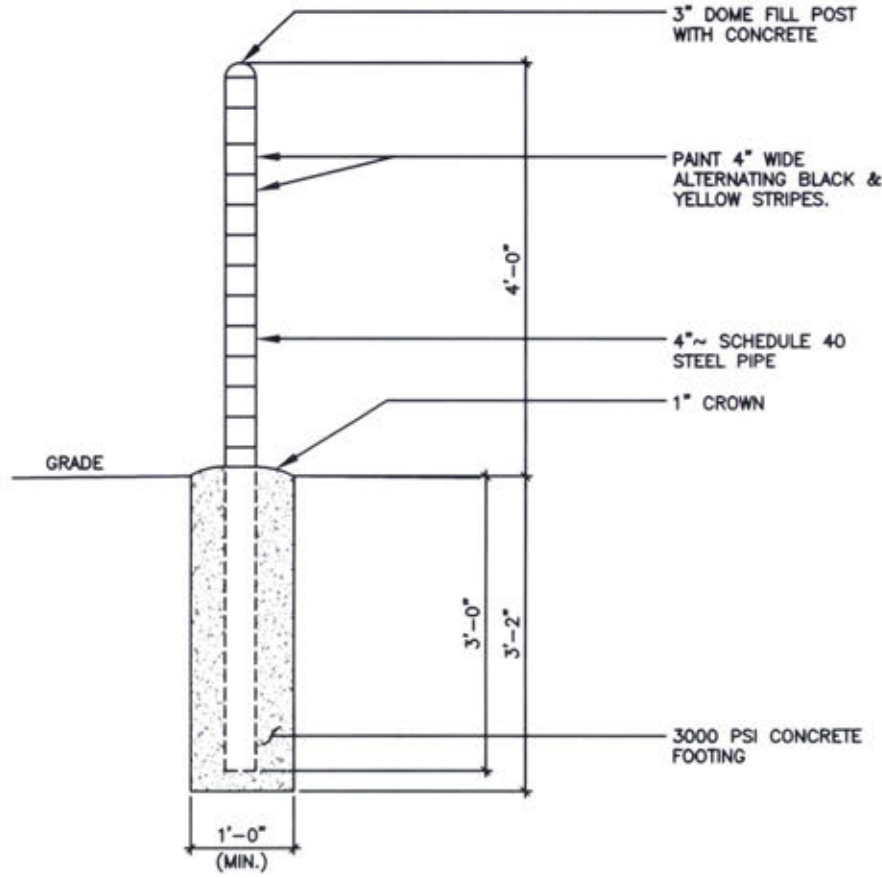
Know what's below.
Call before you dig.



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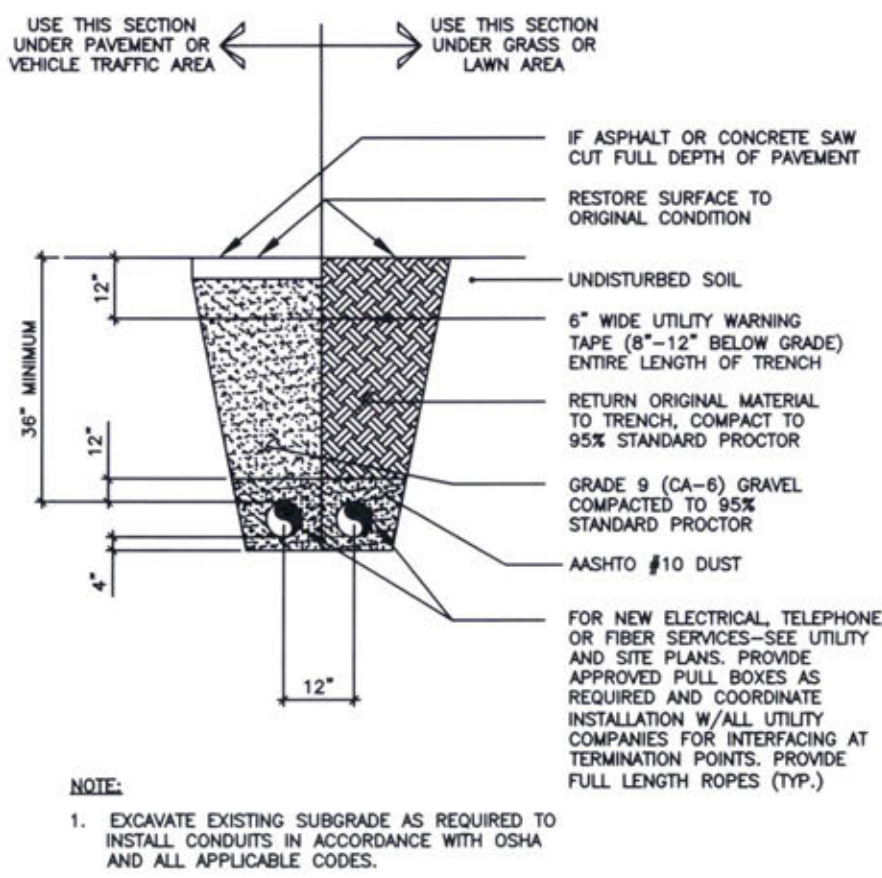
- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHN, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

PROTECTION BOLLARD DETAIL



SCALE: 3 N.T.S.

TYPICAL TRENCH DETAIL

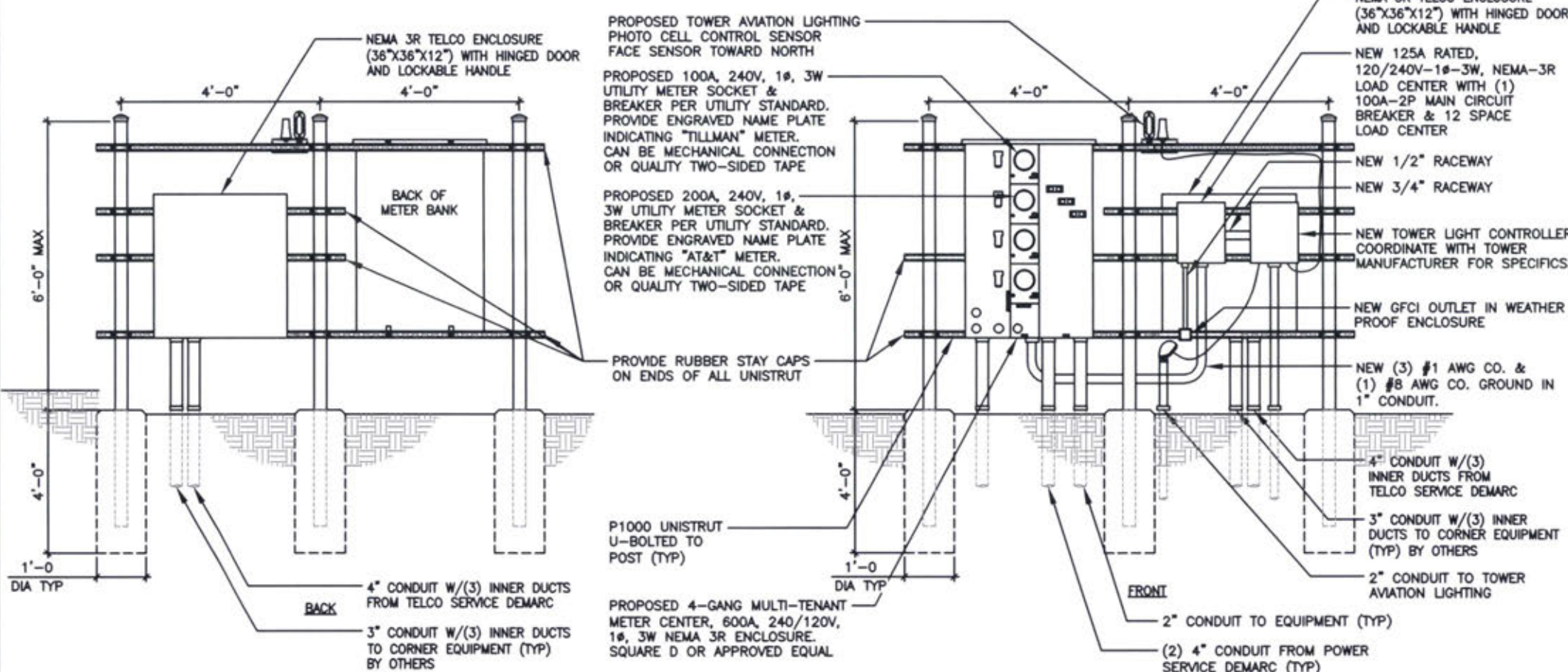


SCALE: 2 N.T.S.

ELECTRICAL NOTES

4

UTILITY FRAME DETAIL



SCALE: 1 N.T.S.



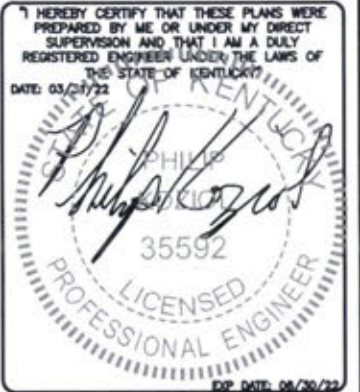
JOHN M. BANKS
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 604 FOX GLEN
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DRAWN BY: DWM
 CHECKED BY: MC

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION



TILLMAN OPP# TI-OPP-18773
 TILLMAN SITE NAME:
 PINE KNOT RELO
 FAX# 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

SHEET TITLE
**ENLARGED
 UTILITY PLAN**

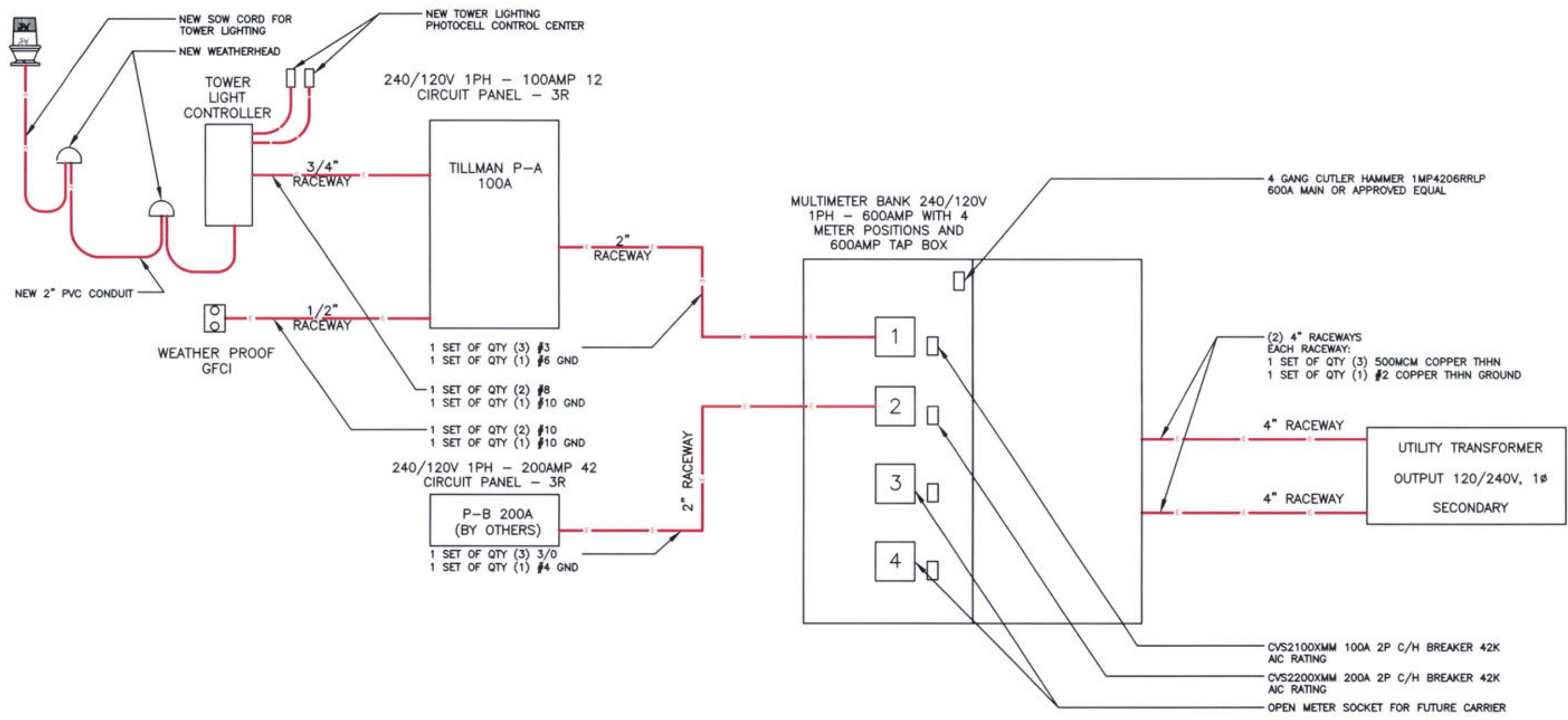
SHEET NUMBER
E-2

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METER POSITION 1 - TILLMAN LOAD CENTER (P-A)																										
LOAD			LOAD PER PHASE (VA)														LOAD									
DESCRIPTION	QTY.	UNIT V.A.	PHASE		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	LOAD PER PHASE (VA)		UNIT V.A.	QTY.	DESCRIPTION			
			A	B															A	B						
1	GFCI RECEPTACLES	1	600	600	BLK		X	10	10	20								BLK				1	SPARE	2		
3	TOWER LIGHT	1	1600	1600	RED	X		8	10	20								RED				1	SPARE	4		
5	TOWER LIGHT	1	1600	1600	BLK	X		8	10	20								BLK				1	SPARE	6		
7	SPARE	1			RED													RED				1	SPARE	8		
9	SPARE	1			BLK													BLK				1	SPARE	10		
11	SPARE	1			RED													RED				1	SPARE	12		
SUBTOTAL CONTINUOUS			1600	1600															SUBTOTAL CONTINUOUS		TOTAL AMPS CONTINUOUS x 1.25		4000			
SUBTOTAL NON-CONTINUOUS			600	-															SUBTOTAL NON-CONTINUOUS		TOTAL AMPS NON-CONTINUOUS		600			
SUBTOTAL SUB-PANEL																			SUBTOTAL SUB-PANEL		TOTAL AMPS SUB-PANEL		4600			
PANEL DESIGNATION: ELECTRICAL PANEL (PA)																				TOTAL KVA		4.60				
MAIN LUGS: N/A		MAIN BREAKER: 100 AMP																				BRANCH BREAKER TYPE: SIEMENS - BL				
VOLTAGE: 120/240		CYCLE: 60		PHASE: 1		WIRES: 3		MAIN COPPER BUS: 100 AMPS		NEUTRAL: 100 AMPS												TOTAL AMPS		19.16		

TILLMAN P - A PANEL SCHEDULE

2



ELECTRICAL SINGLE LINE DIAGRAM

1



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
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1	03/31/22	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
 DATE: 03/31/22

PHILLIP C. BANKS
 35592
 LICENSED PROFESSIONAL ENGINEER
 EXP. DATE: 06/30/23

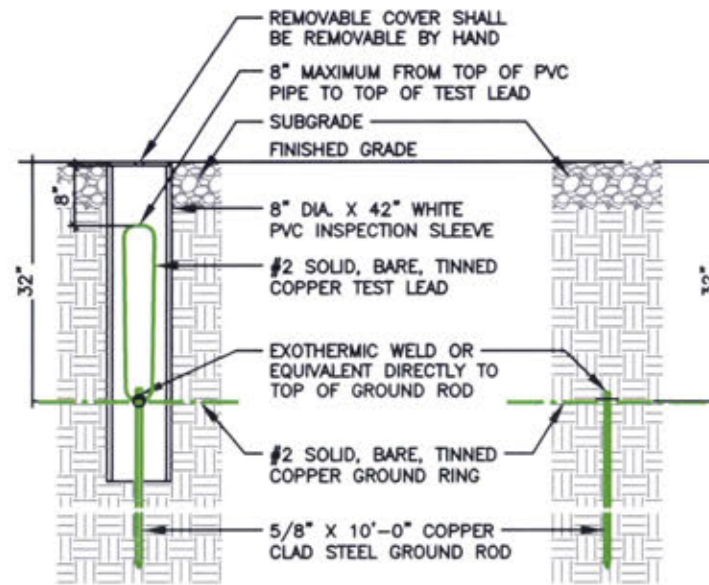
TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME:
PINE KNOT RELO
FAX# 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
ELECTRICAL DIAGRAM

SHEET NUMBER
E-3

GROUNDING NOTES:

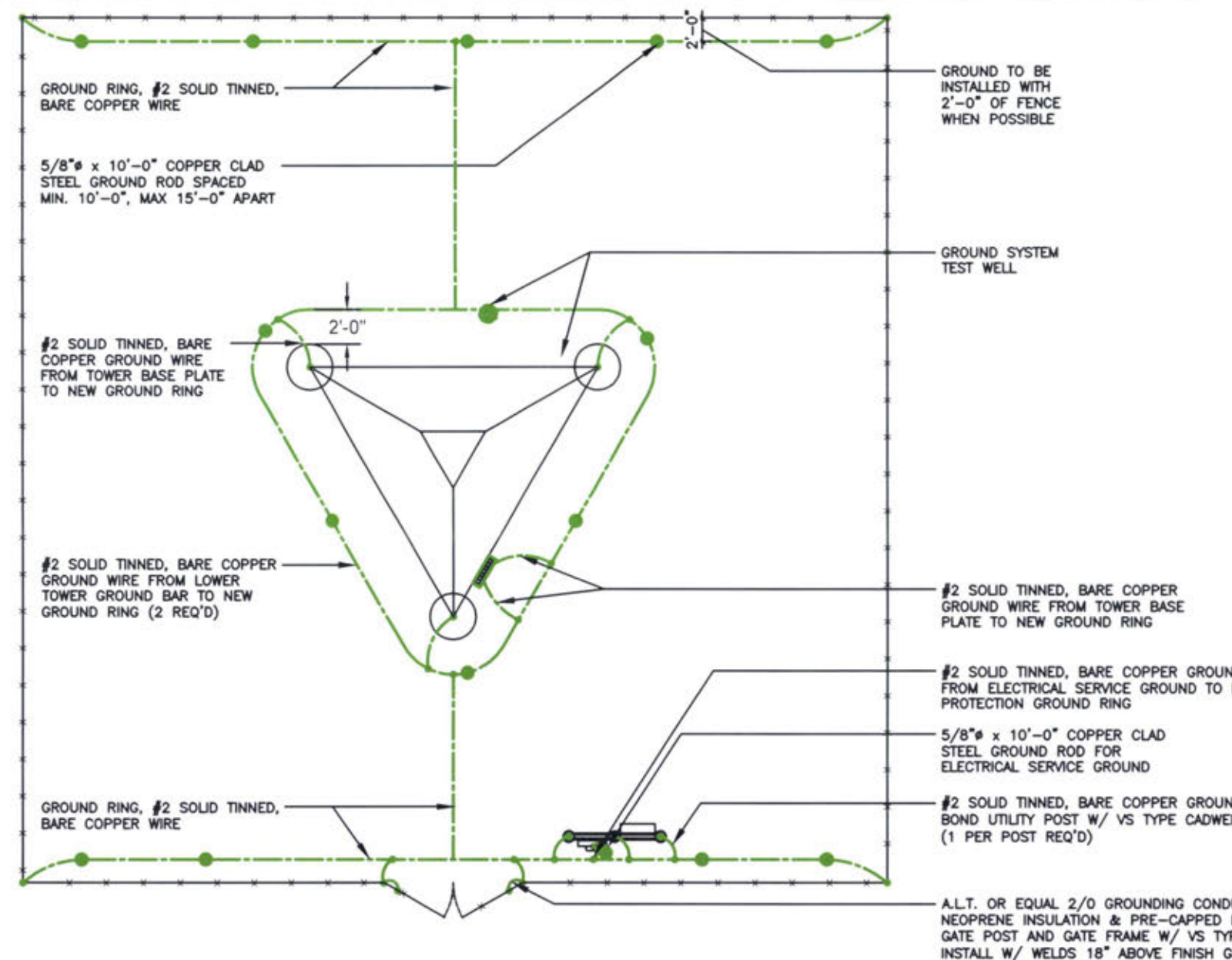
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THIN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10"-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 5 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.



GROUND WELL, ROD, AND TEST WELL DETAIL

SCALE
N.T.S. **2**

- NOTE:
A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS W/HIGHLY ACIDIC SOIL
- NOTE:
GROUND RODS MAY BE COPPER CLAD STEEL OR SOLID COPPER
- NOTE:
GROUND RODS SHALL HAVE A RECOMMENDED SPACING TWICE THE LENGTH OF THE ROD
- NOTE:
SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
- NOTE:
GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER



GROUNDING LEGEND

- MECHANICAL CONNECTION
- COMPRESSION FITTING CONNECTION
- EXOTHERMIC WELD CONNECTION
- 5/8"x10' COPPER-CLAD STEEL GROUND ROD
- 5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
- PROPOSED GROUND WIRING
- EXISTING GROUND WIRING
- TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
- CGB COLLECTOR GROUND BAR
- MGB MAIN GROUND BAR

- NOTE:
GROUND TO BE INSTALLED WITH 2'-0" OF FENCE WHEN POSSIBLE
- NOTE:
SEE COMPOUND PLAN FOR COMPOUND ORIENTATION, UTILITY H-FRAME, GATE AND TOWER LOCATION.
- NOTE:
REFER TO SPECIFIC CARRIER EQUIPMENT GROUNDING PLAN FOR NEW CARRIER EQUIPMENT GROUNDING.
- NOTE:
OBJECTIVE:
 - RING AROUND TOWER WITH ALL TOWER LEGS GROUNDED, MONOPOLE SHALL HAVE AT LEAST TWO GROUNDS TO EARTH.
 - CONNECTION TO FENCE POSTS AT ALL CORNERS OR CHANGES IN FENCE DIRECTION GREATER THE 45°.
 - CONNECTIONS TO EACH SIDE OF ANY GATE POSTS.
 - CONNECTIONS TO UTILITY H-FRAME.
 - INSTALL ENOUGH GROUND RODS TO ENSURE 5 OHMS OR LESS RESISTANCE.

GROUNDING PLAN AND DETAILS

SCALE
N.T.S. **1**

GROUNDING NOTES SCALE N.T.S. **3**

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BARRINGTON, IL 60010
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EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION



TILLMAN OPP# TI-OPP-18773
TILLMAN SITE NAME:
PINE KNOT RELO
FA# 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
GROUNDING PLAN & DETAILS

SHEET NUMBER
G-1

REV	DATE	DESCRIPTION
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DATE: 03/31/22
PHILIP J. PHILLIPS
35592
LICENSED PROFESSIONAL ENGINEER
EXP. DATE: 06/30/22

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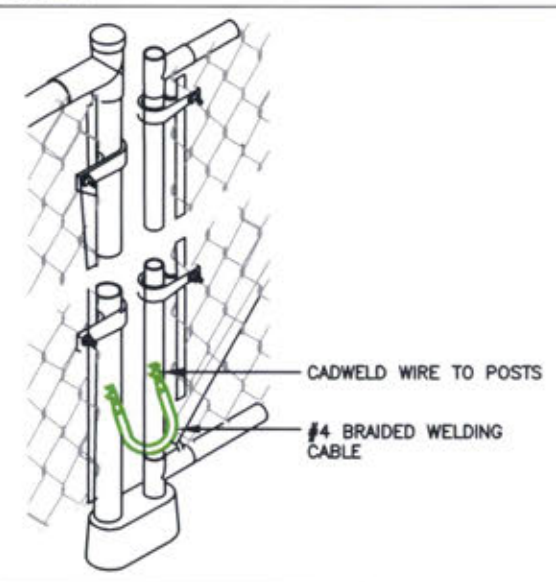
SHEET TITLE
GROUNDING PLAN
& RISER DIAGRAM

SHEET NUMBER
G-2

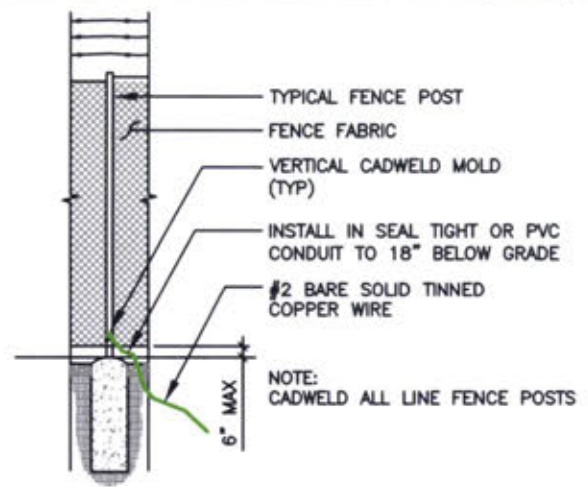
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NOT USED

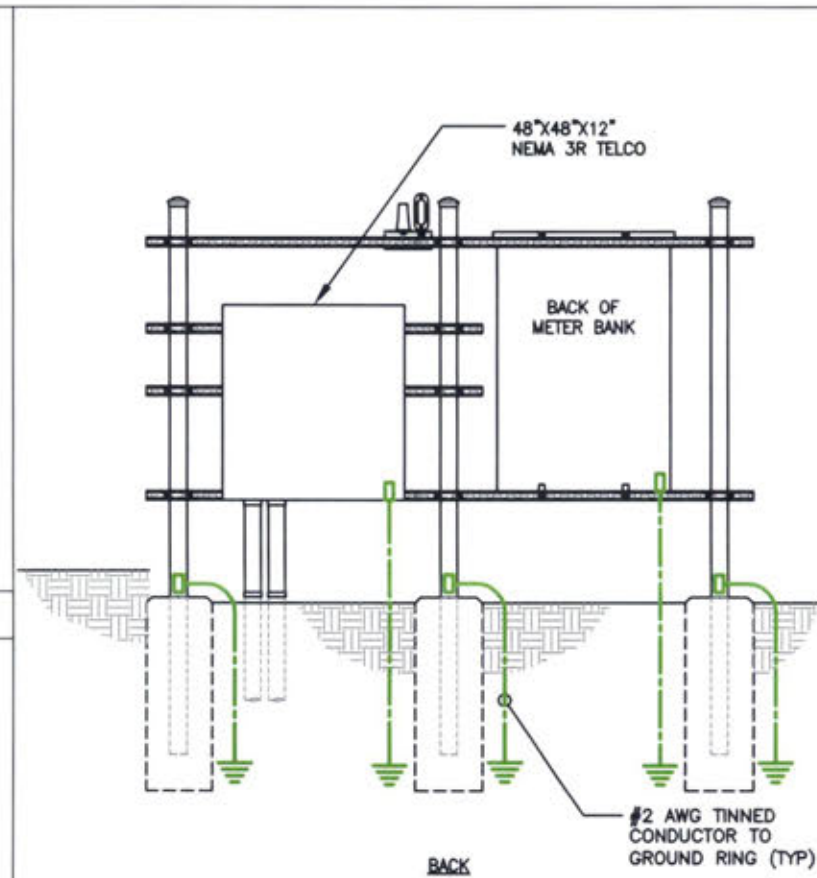
SCALE
N.T.S. 2



GATE GROUNDING DETAIL SCALE N.T.S. 4

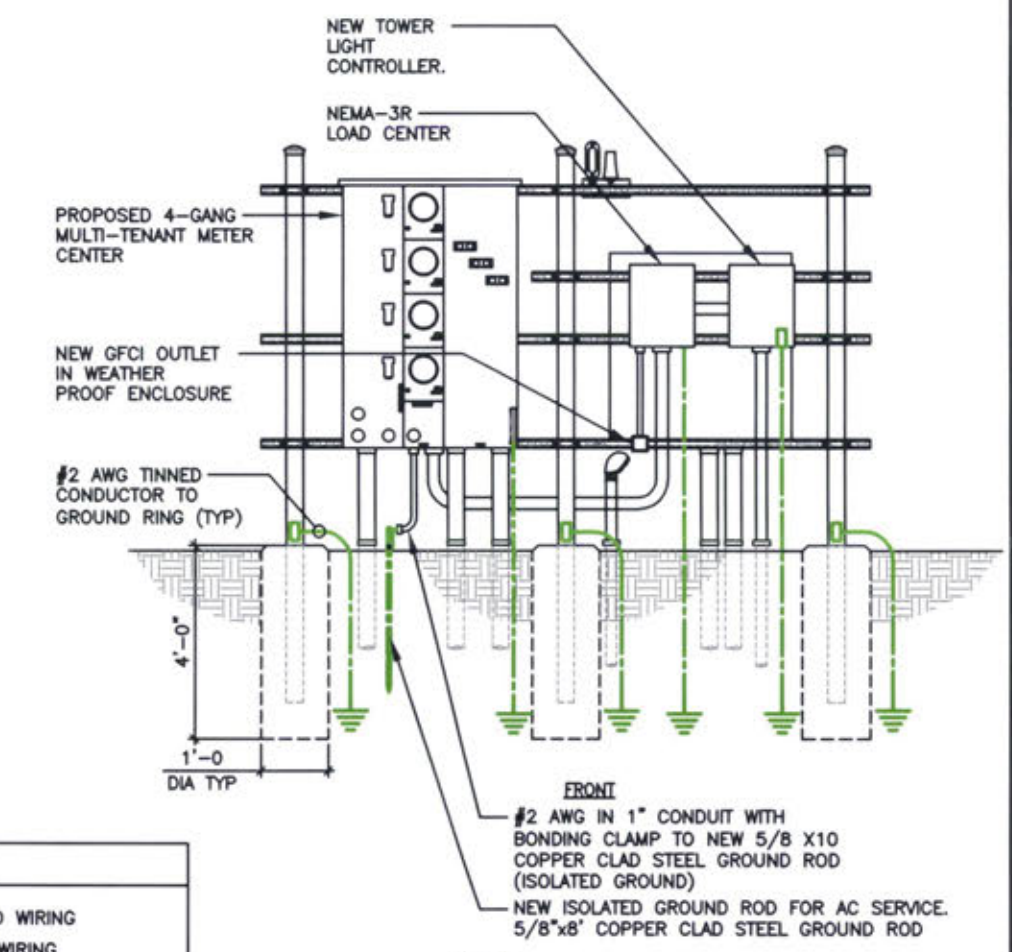


TYPICAL FENCE POST GROUNDING SCALE N.T.S. 3



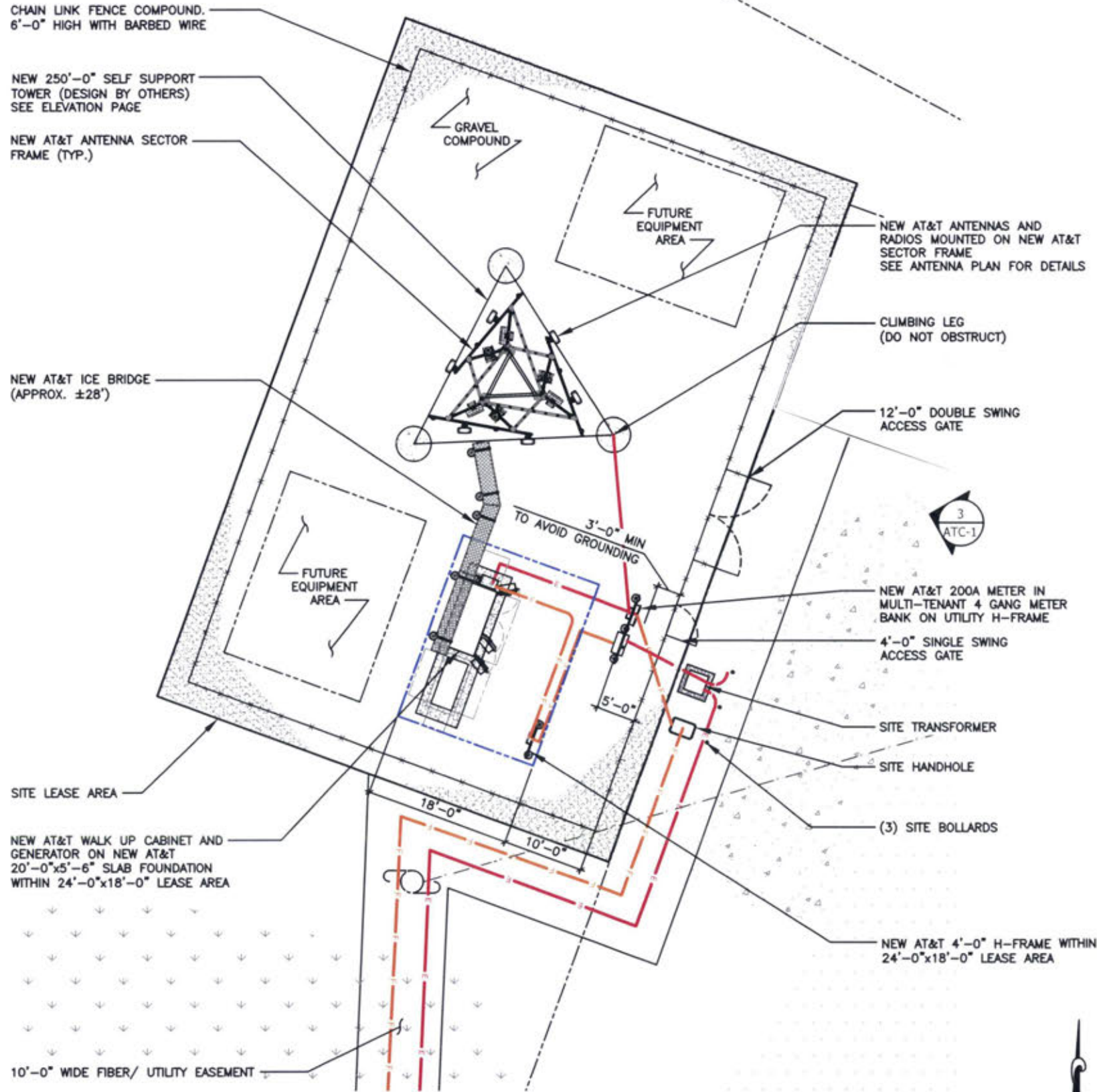
GROUNDING LEGEND			
	MECHANICAL CONNECTION		PROPOSED GROUND WIRING
	COMPRESSION FITTING CONNECTION		EXISTING GROUND WIRING
	EXOTHERMIC WELD CONNECTION		TINNED COPPER GROUND BAR
	5/8"x10' COPPER-CLAD STEEL GROUND ROD		1/4"x4"x12" OR 1/4"x4"x20"
	5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL		COLLECTOR GROUND BAR
			CGB
			MGB
			MAIN GROUND BAR

H-FRAME GROUNDING SCALE N.T.S. 1



NOTE:
2 BOLT MECHANICAL LUG CONNECTION AT ALL EQUIPMENT GROUND POINT; ADD NON OX COMPOUND

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LEGEND	
	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	EXISTING PROPERTY LINE

SCALE: 1/8" = 1'-0" (24x36)
 (OR) 1/16" = 1'-0" (11x17)



AT&T

AT&T SITE NUMBER: KYL06206
AT&T SITE NAME: PINE KNOT RELO
FA CODE: 15312904
SITE ADDRESS: 5787 S. HWY 1651
PINE KNOT, KY 42635
TILLMAN SITE # TI-OPP-18773

SITE INFORMATION

SITE ADDRESS:	5787 S. HWY 1651 PINE KNOT, KY 42635	LANDLORD OWNER:	PINE KNOT VOLUNTEER FIRE SERVICES 5787 S. HWY 1651 PINE KNOT, KY 42635
LATITUDE (NAD 83):	36°39'54.68"N (36.665226°)	TOWER OWNER:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10011
LONGITUDE (NAD 83):	84°26'54.71"W (-84.448564°)	STRUCTURE TYPE:	SELF SUPPORT TOWER
GROUND ELEVATION:	1404.0' (AMSL)	STRUCTURE HEIGHT:	250'-0" (AGL)
JURISDICTION:	MCCREARY COUNTY	TILLMAN SITE #:	TI-OPP-18773
ZONING:	NONE		
PARCEL/MAP NUMBER:	123-40-01-001.00		

PROJECT TEAM

APPLICANT:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NEW YORK 10019
PROJECT MANAGEMENT FIRM:	LCC TELECOM SERVICES 10700 HIGGINS ROAD, SUITE 240 ROSEMONT, IL 60018 (847) 608-6300
ARCHITECT ENGINEERING:	JOHN M. BANKS 604 FOX GLEN BARRINGTON, IL 60010 CONTACT: JOHN M. BANKS PHONE: (847) 277-0070 EMAIL: JBANKS@WESTCHESTERSERVICES.COM

DRAWING INDEX

AT-T-1	TITLE SHEET & OVERALL SITE PLAN
AT-C-1	ELEVATION, ANTENNA PLAN AND SCHEDULE
AT-C-2	WALK UP CABINET PAD DETAILS
AT-C-2.1	WALK UP CABINET PAD DETAILS
AT-C-3	CONSTRUCTION DETAILS
AT-C-4	RRH ANTENNA AND EQUIPMENT SPECIFICATIONS
AT-E-1	ENLARGED UTILITY PLAN
AT-E-2	ELECTRICAL PANEL SCHEDULE, DIAGRAM AND NOTES
AT-E-3	DC/FIBER SYSTEM DIAGRAM
AT-E-4	DC WIRING DIAGRAM
AT-G-1	GROUNDING PLAN AND RISER DIAGRAM
AT-G-2	GROUNDING DETAILS & NOTES

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2018 KENTUCKY STATE BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL BUILDING CODE
- AMERICAN CONCRETE INSTITUTE
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
- MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSII/TIA-222-H
- TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEERING 81
- IEEE C2 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
- TELECORDIA GR-1275
- ANSII 311

TILLMAN
INFRASTRUCTURE



LCC
TELECOM SERVICES

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WESTCHESTER
SERVICES LLC

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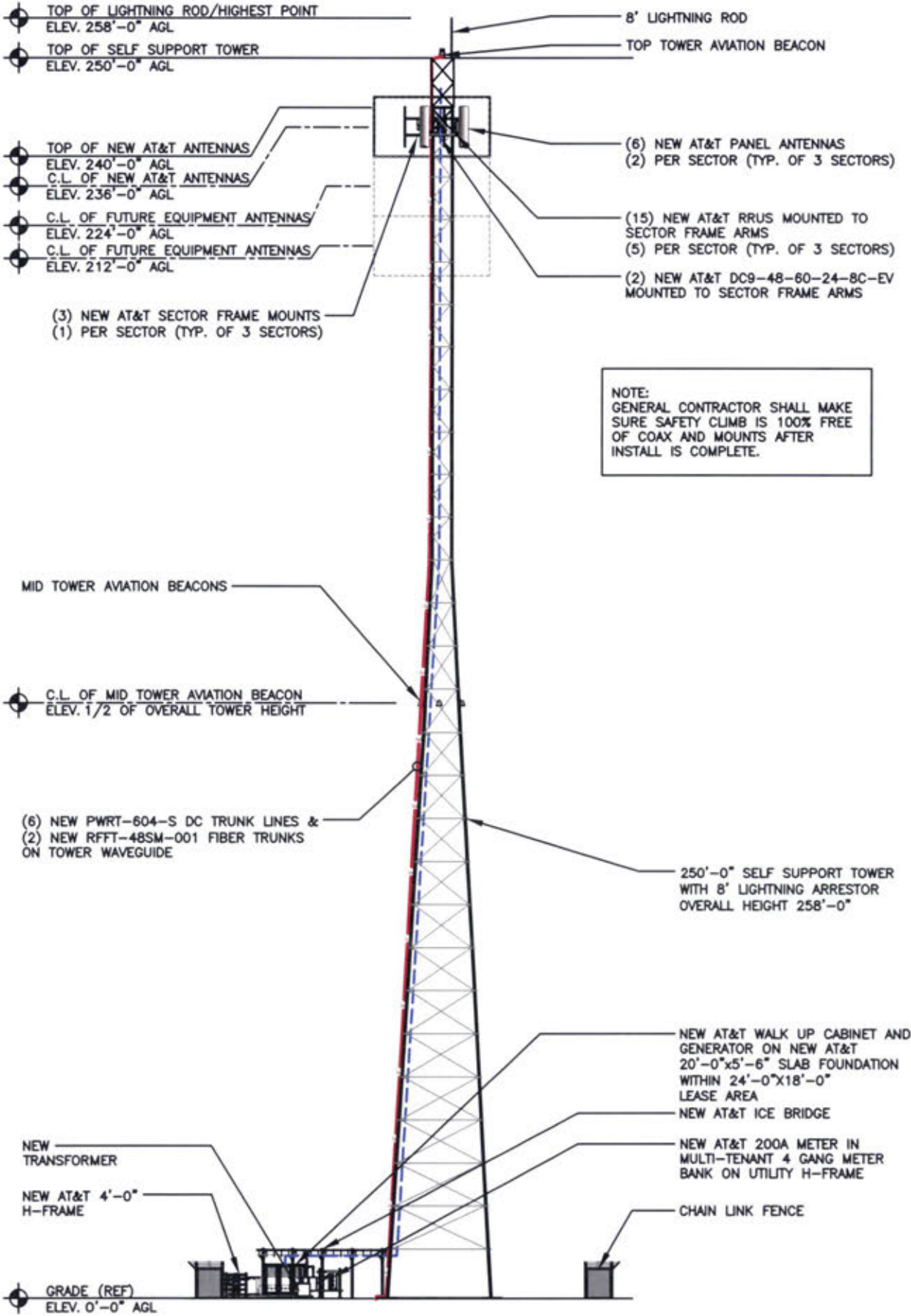
SHEET TITLE
TITLE SHEET &
OVERALL SITE PLAN

SHEET NUMBER
AT-T-1

ENLARGED SITE PLAN

1

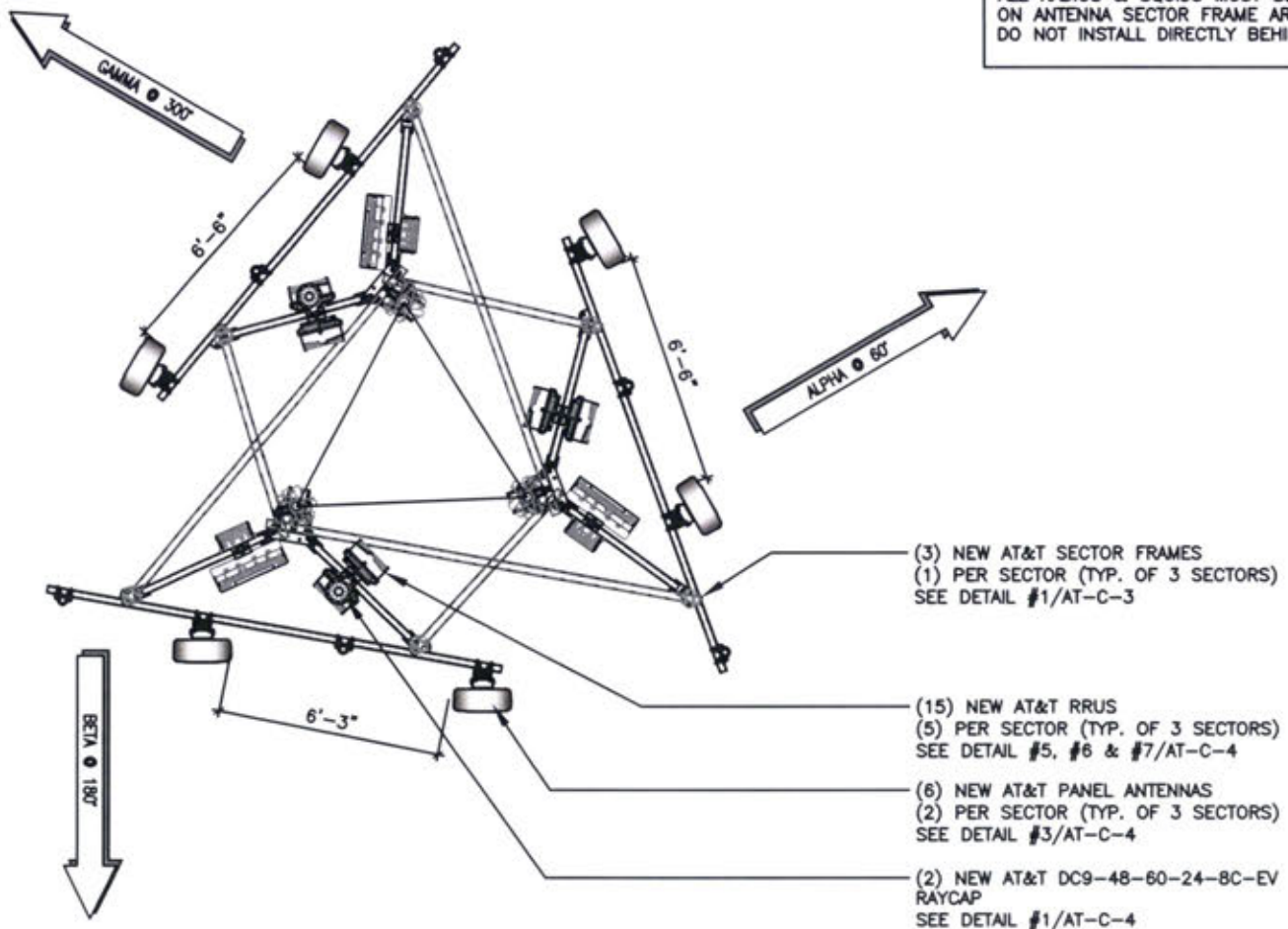
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NOTE:
GENERAL CONTRACTOR SHALL MAKE SURE SAFETY CLIMB IS 100% FREE OF COAX AND MOUNTS AFTER INSTALL IS COMPLETE.

ELEVATION

SCALE
N.T.S. **3**



NOTE:
ALL RADIOS & SQUIDS MUST BE INSTALLED ON ANTENNA SECTOR FRAME ARM.
DO NOT INSTALL DIRECTLY BEHIND ANTENNA.

ANTENNA LAYOUT (SELF SUPPORT)

SCALE
N.T.S. **2**

ANTENNA AND RRH SCHEDULE BASED ON AT&T RFDS DATED: 01/06/22

SECTOR	ANTENNA	TECH	ANTENNA HEIGHT	AZIMUTH	RRU MODEL
ALPHA	COMMSCOPE NNH4-65D-R6	LTE 850 LTE 1900 LTE AWS	236'±	60°	RRUS 4478 B5 RRUS 4415 B25 RRUS 4426 B66
	-	-	-	-	-
BETA	COMMSCOPE NNH4-65D-R6	LTE 700 LTE WCS	236'±	60°	RRUS 4478 B14 RRUS 4415 B30
	-	-	-	-	-
BETA	COMMSCOPE NNH4-65D-R6	LTE 850 LTE 1900 LTE AWS	236'±	180°	RRUS 4478 B5 RRUS 4415 B25 RRUS 4426 B66
	-	-	-	-	-
BETA	COMMSCOPE NNH4-65D-R6	LTE 700 LTE WCS	236'±	180°	RRUS 4478 B14 RRUS 4415 B30
	-	-	-	-	-
GAMMA	COMMSCOPE NNH4-65D-R6	LTE 850 LTE 1900 LTE AWS	236'±	300°	RRUS 4478 B5 RRUS 4415 B25 RRUS 4426 B66
	-	-	-	-	-
GAMMA	COMMSCOPE NNH4-65D-R6	LTE 700 LTE WCS	236'±	300°	RRUS 4478 B14 RRUS 4415 B30
	-	-	-	-	-

CABLE COUNT

QUANTITY	CABLE TYPE
6	6 CONDUCTOR (3 PR) 3/4" DC CABLE
2	36 FIBER (18 PR) 10MM FIBER
2	DC9 FULL SQUID

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
DATE: 03/21/22
Philip M. Banks
35592
PROFESSIONAL ENGINEER
EXP. DATE: 06/30/27

AT&T SITE# KYL06206
AT&T SITE NAME:
PINE KNOT RELO
FA # 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
ELEVATION, ANT.
PLAN & SCHEDULE

SHEET NUMBER
AT-C-1

TILLMAN
INFRASTRUCTURE

AT&T
mobility corp.

LCC
TELECOM SERVICES

JOHN M. BANKS
ARCHITECT
604 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-277-0070
FAX: 847-277-0080
EMAIL: JBANKS@WESTCHESTERSERVICES.COM

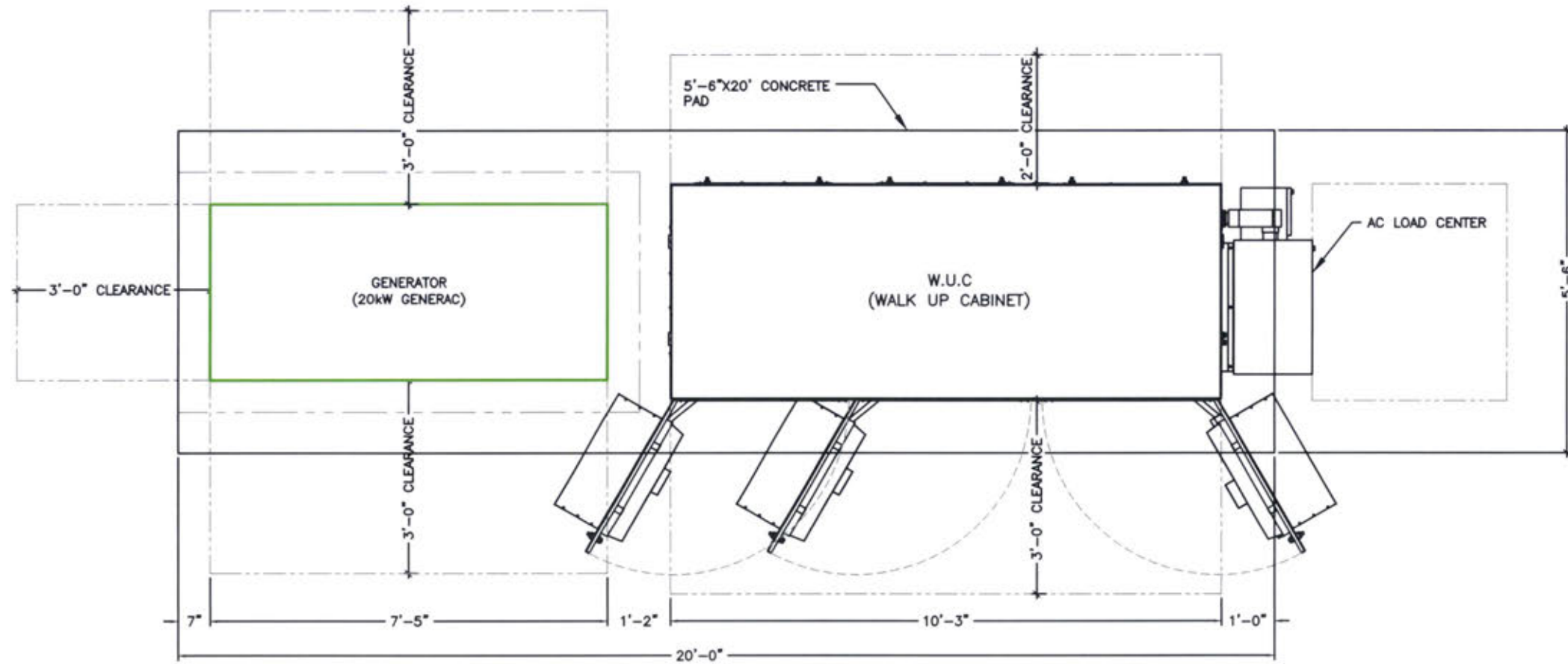
WESTCHESTER
SERVICES LLC
KY FIRM NO. 5130
604 FOX GLEN
BARRINGTON, IL 60010
PHONE: 847-277-0070
EMAIL: AE@westchesterservices.com

DRAWN BY: DWM
CHECKED BY: MC

SCALE
N.T.S. **1**

ANTENNA AND RRH SCHEDULE

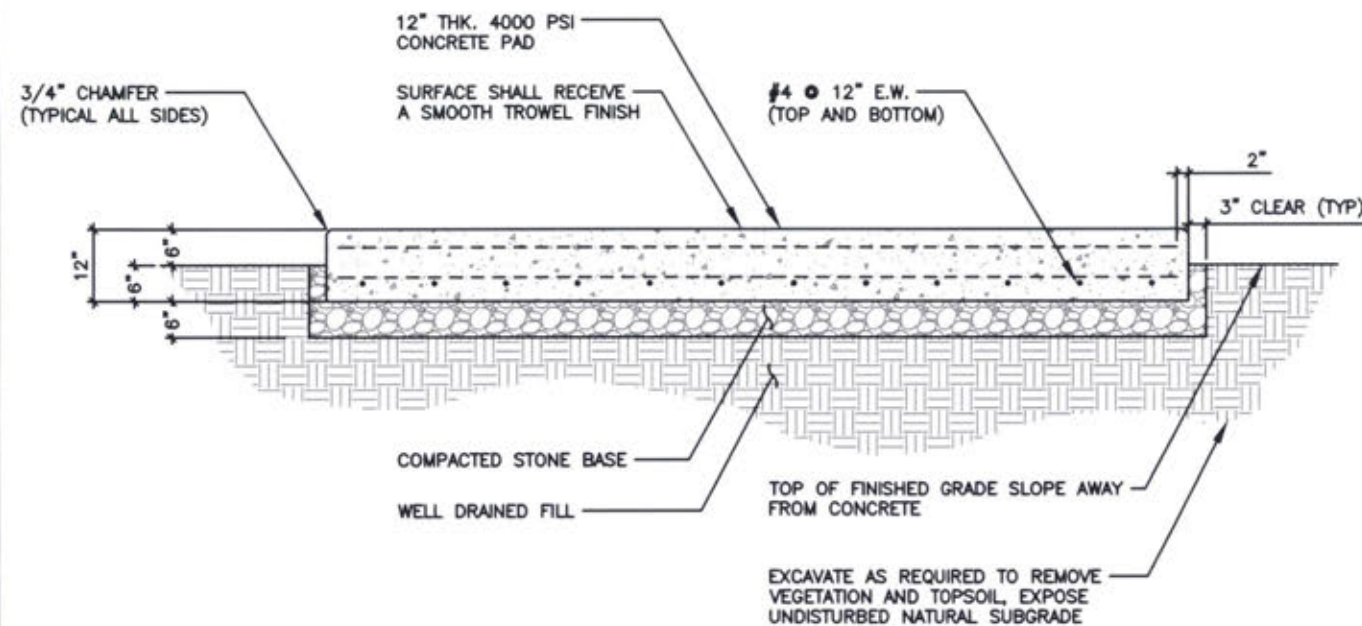
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EQUIPMENT PAD LAYOUT

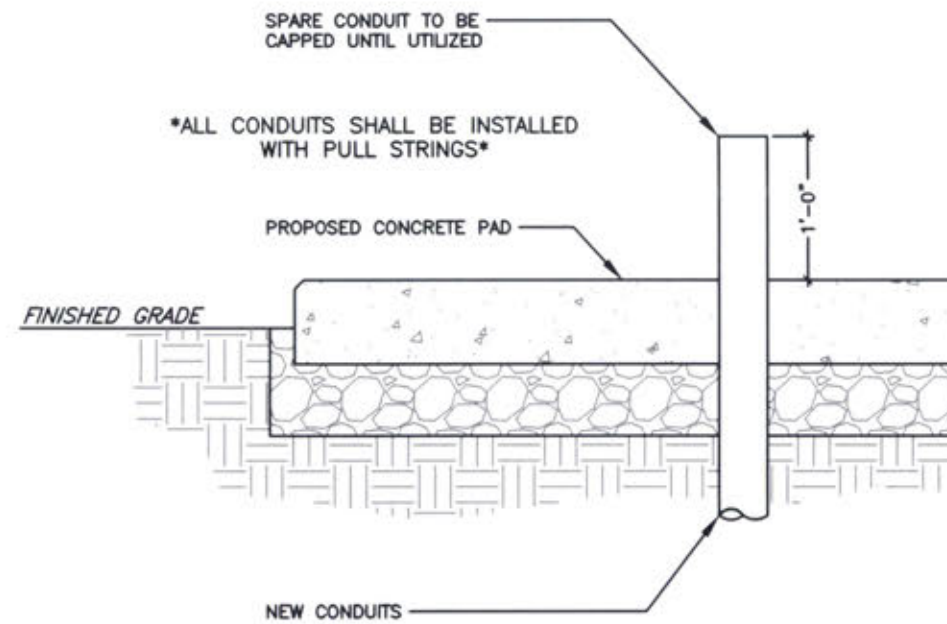
SCALE
N.T.S. 2

CONCRETE PAD DETAIL



SCALE
N.T.S. 3

CONDUIT PENETRATION DETAIL



SCALE
N.T.S. 1



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DATE: 03/31/22

Philip Stogsdorff

35592

PROFESSIONAL ENGINEER

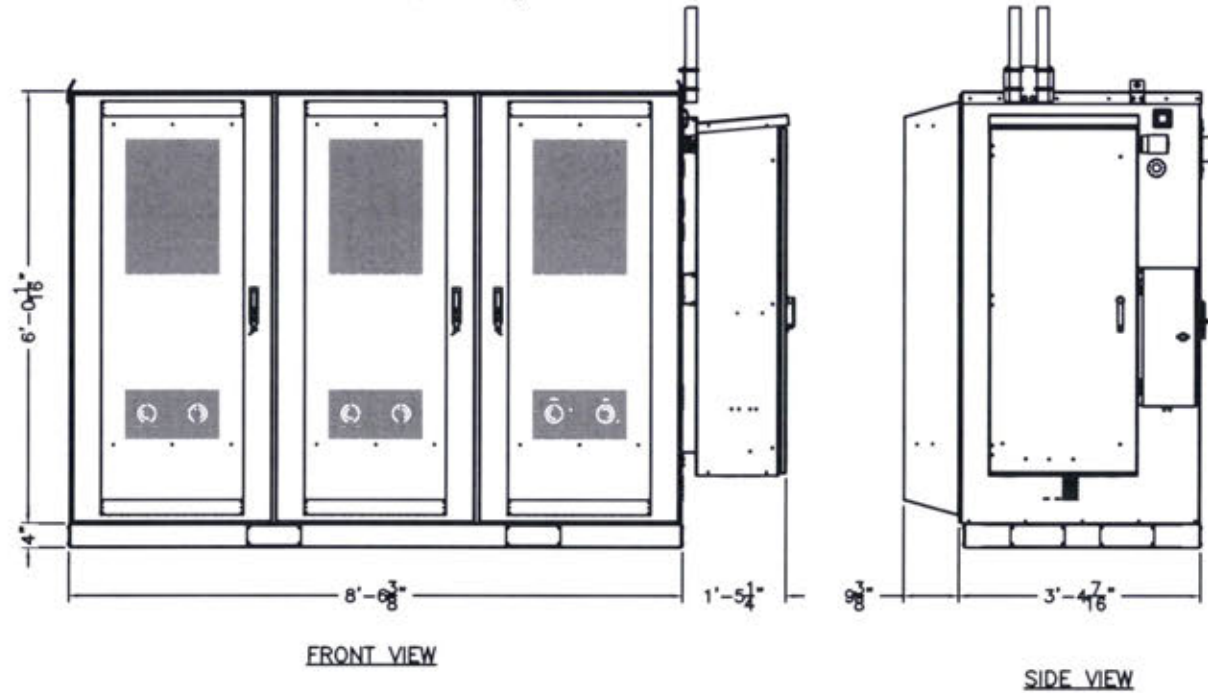
EXP. DATE: 06/30/23

AT&T SITE # KYL06206
AT&T SITE NAME:
PINE KNOT RELO
FA # 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
WALK UP CABINET
PAD DETAILS

SHEET NUMBER
AT-C-2

WEIGHT = 2,270 LB (EXCLUDING BATTERIES, POWER SUPPLY & LOAD EQUIPMENT)

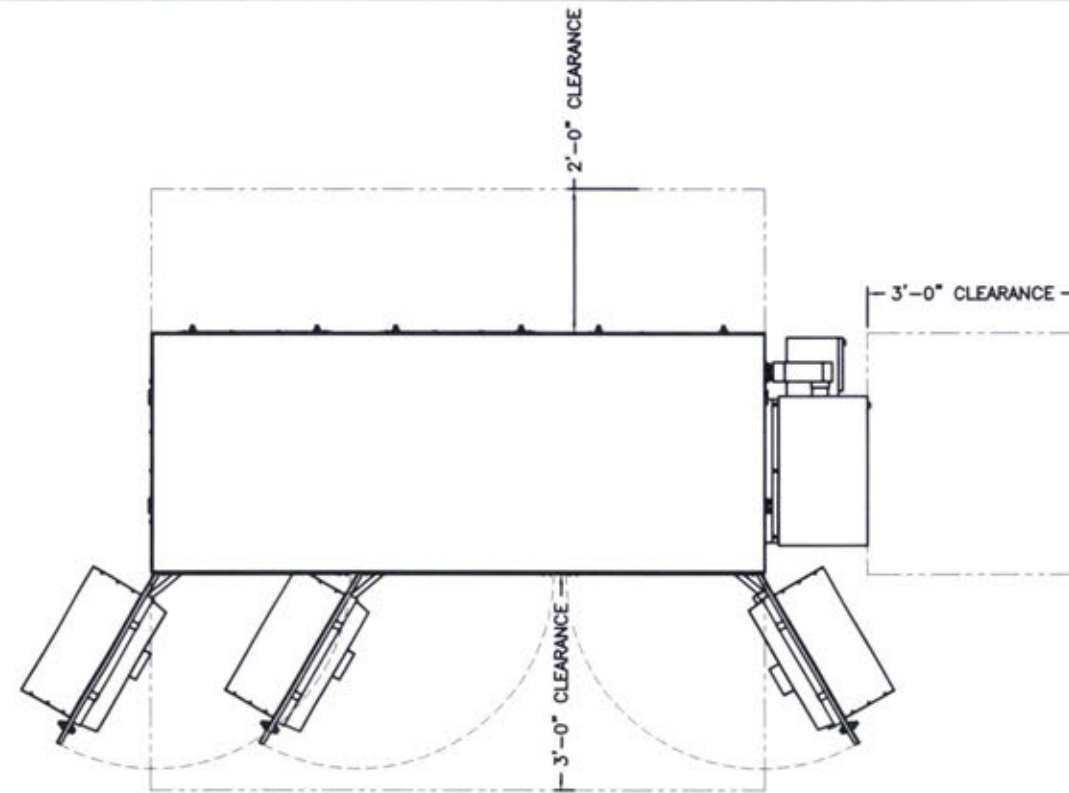


FRONT VIEW

SIDE VIEW

WALK UP CABINET ELEVATIONS

SCALE N.T.S. 4



WALK UP CABINET DELTA ESOF030-HCU01 PLAN

SCALE N.T.S. 2



GENERAC
Protector™
Diesel Generator Set

Protector™
1 of 18

INCLUDES:

- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position
- Isochronous electronic governor
- Sound attenuated aluminum enclosure
- Smart battery charger
- UV / Ozone resistant hoses
- ±1% voltage regulation
- Integrated base tank options are available with run times over 90 hours without having to refuel*
- Five year limited warranty
- UL 2200 / UL142 / ULC S601 Listed
- Meets code requirements for external vent and fill

Standby Power Rating

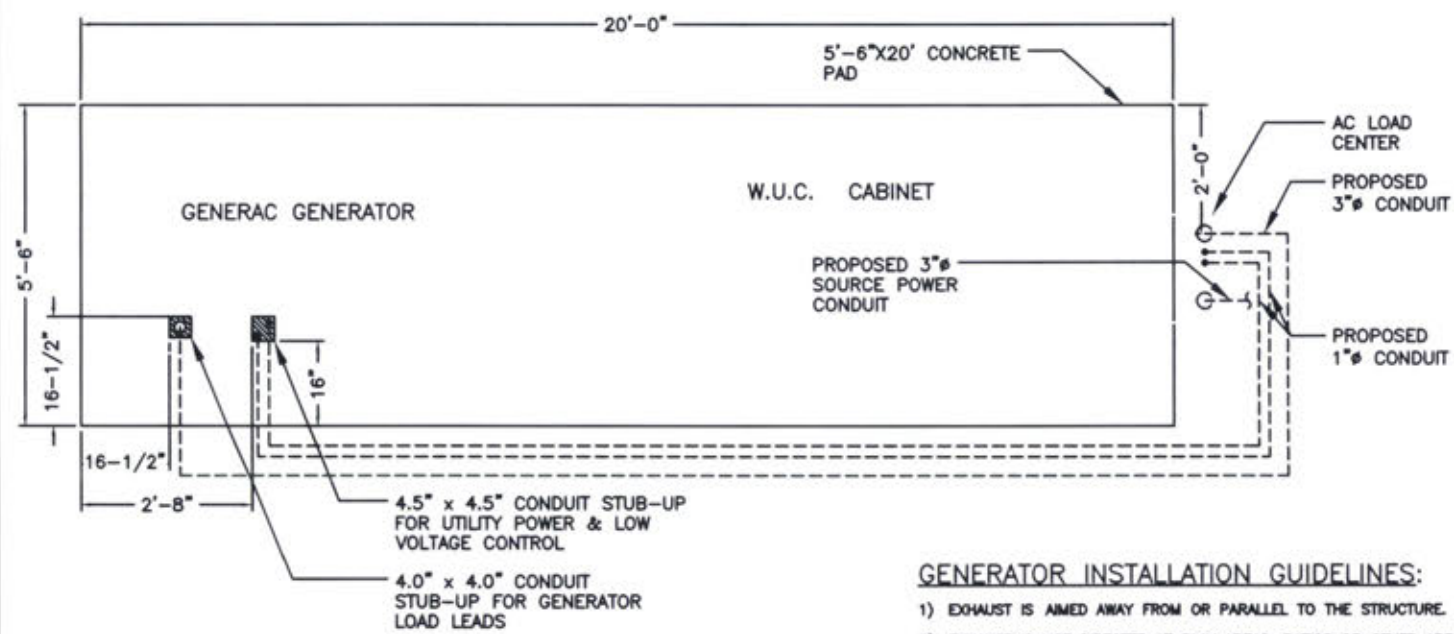
Model RD010 - 15 kW 60 Hz
Model RD020 - 20 kW 60 Hz
Model RD030 - 30 kW 60 Hz
Model RD048 - 48 kW 60 Hz (single-phase only)
Model RD060 - 60 kW 60 Hz (three phase only)



Meets EPA Emission Regulations
CA/MMA Emissions Compliant
* Time calculated at one-half maximum kW output

GENERAC 20 Kw GENERATOR (MODEL RD020)

SCALE N.T.S. 3



4.5" x 4.5" CONDUIT STUB-UP FOR UTILITY POWER & LOW VOLTAGE CONTROL
4.0" x 4.0" CONDUIT STUB-UP FOR GENERATOR LOAD LEADS

GENERATOR NOTES:

THE RECOMMENDED DISTANCE FROM A STRUCTURE IS DEPENDENT ON STATE AND LOCAL CODES. NFPA 37 (STANDARDS FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES) STATES THIS DISTANCE SHOULD BE AT LEAST 5 FEET FROM A COMBUSTIBLE MATERIAL. FOR IN STALLATIONS NEAR NON-COMBUSTIBLE MATERIAL BE SURE TO LEAVE A MINIMUM DISTANCE OF 3 FEET TO ENSURE PROPER GENERATOR COOLING.

GENERATOR INSTALLATION GUIDELINES:

- 1) EXHAUST IS AIMED AWAY FROM OR PARALLEL TO THE STRUCTURE.
- 2) EXHAUST IS NOT DIRECTED AT PLAY AREAS, PATIOS OR OTHER AREAS WHERE PEOPLE CONGREGATE.
- 3) THE NEAREST WINDOW, VENT, DOOR OR SIMILAR STRUCTURE OPENING IS AT LEAST 5 FEET FROM THE EXHAUST END OF THE SET.
- 4) SET HAS PROPER OFFSET FROM STRUCTURE.
- 5) WINDOWS & DOORS ON ADJACENT WALLS ARE CLOSED.
- 6) FURNACE AND OTHER SIMILAR INTAKES ARE AT LEAST 10 FEET FROM EXHAUST END OF SET.
- 7) 12" THICK CONCRETE PAD EXTENDING 6" BEYOND GENSET ON ALL SIDES.
- 8) WEED BARRIER & GRAVEL BED TO EXTEND 4 FT. FROM EXHAUST OUTLET. NO PLANTS, SHRUBS OR OTHER COMBUSTIBLES ALLOWED IN GRAVEL AREA.
- 9) SENSITIVE PLANTS, PATIO FURNITURE, ETC. ARE AT LEAST 8 FEET FROM EXHAUST END OF SET.
- 10) REFER TO OWNERS MANUAL FOR OTHER INSTALLATION CONSTRAINTS.

WUC PAD LAYOUT

SCALE N.T.S. 1



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BARRINGTON, IL 60010
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EMAIL: AEO@westchesterservices.com

DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
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1	03/31/22	PERMIT/CONSTRUCTION

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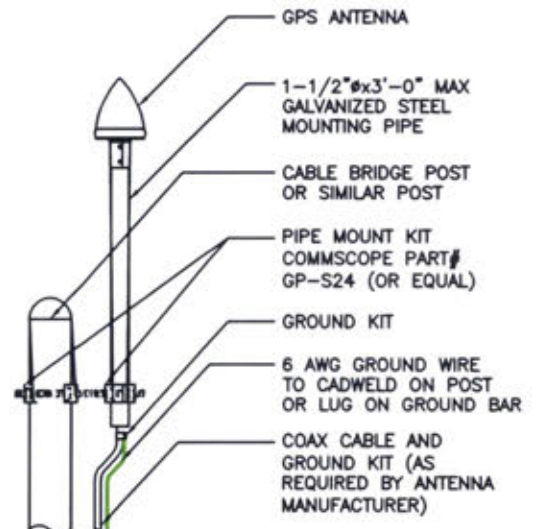
AT&T SITE # KYL08206
AT&T SITE NAME:
PINE KNOT RELO
FA # 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

SHEET TITLE
WALK UP CABINET
PAD DETAILS

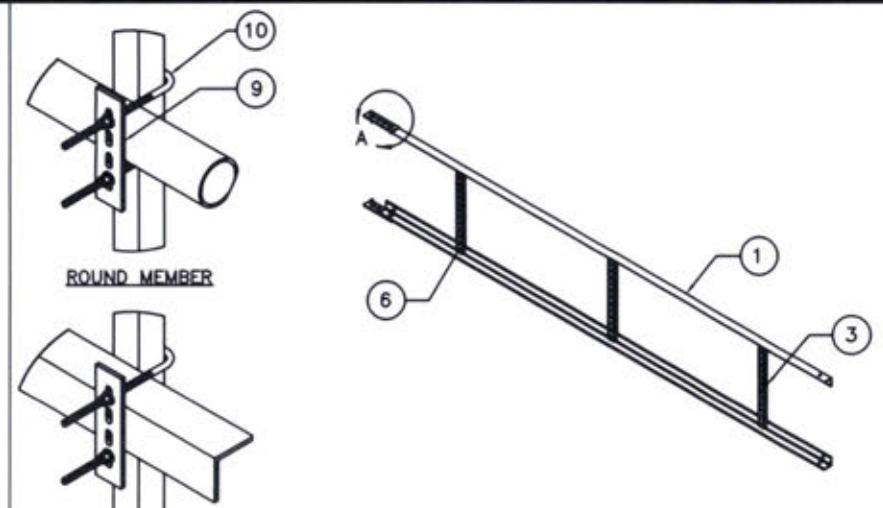
SHEET NUMBER
AT-C-2.1

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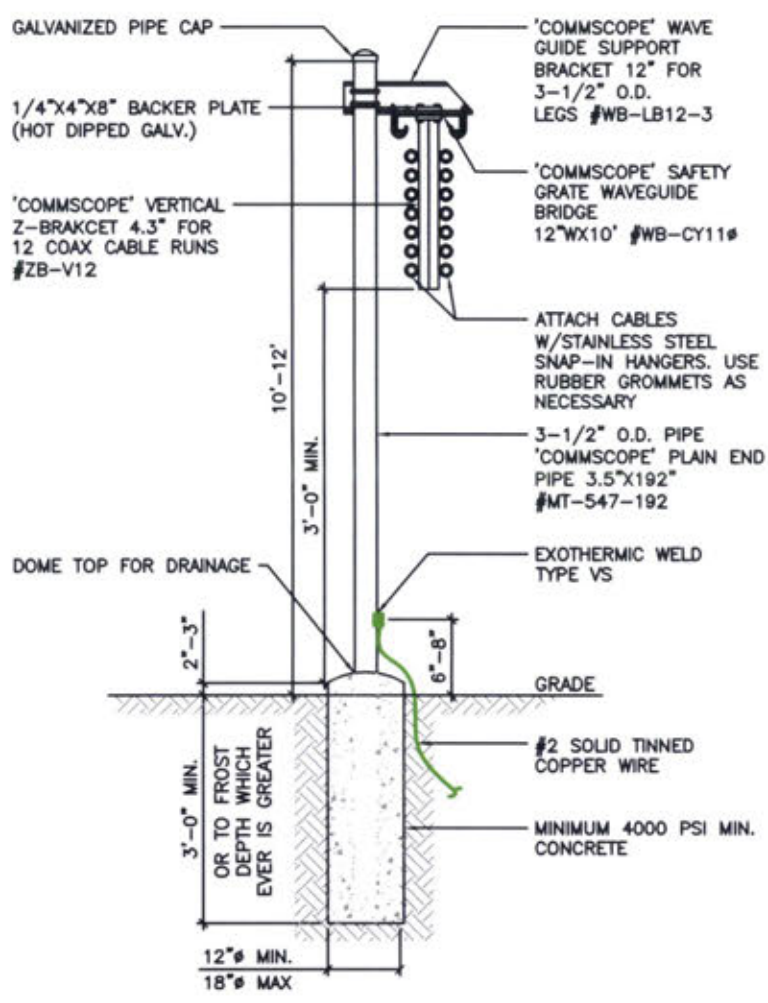


GPS ANTENNA DETAIL
SCALE: N.T.S.
5

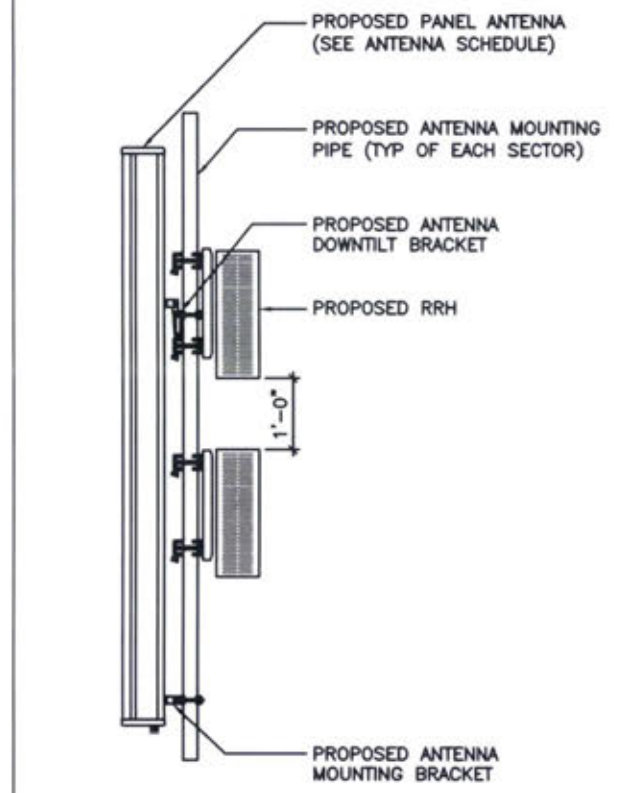


ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT
1	CL20.01	20" ANGLE SIDE RAIL	2	49.38 LBS
2	CL0620UH	HARDWARE KIT (ITEMS 3-10)	1	-
3	CL06R.01	20" LADDER RUNG	6	1.69 LBS
4	CL20H	HARDWARE KIT (ITEMS 5-7)	1	-
5	HKCLU.02	BACKING PLATE	2	0.95 LBS
6	GB-03145	3/8" X 1-1/2" GALV BOLT KIT	16	0.07 LBS
7	GW-03	3/8" GALV FLAT WASHER	4	0.01 LBS
8	HKCLU	LADDER HARDWARE KIT (ITEMS 9-10)	2	-
9	HKCLU.02	BACKING PLATE	4	0.95 LBS
10	JB-8K	8" GALV J-BOLT	8	0.36 LBS

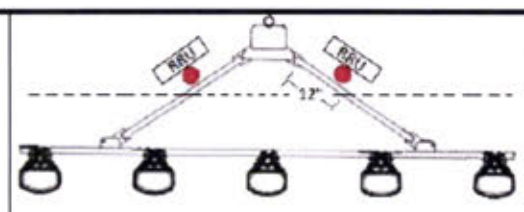
CABLE LADDER DETAIL
SCALE: N.T.S.
3



ICE BRIDGE DETAIL
SCALE: N.T.S.
4



RRH MOUNTING DETAIL
SCALE: N.T.S.
2

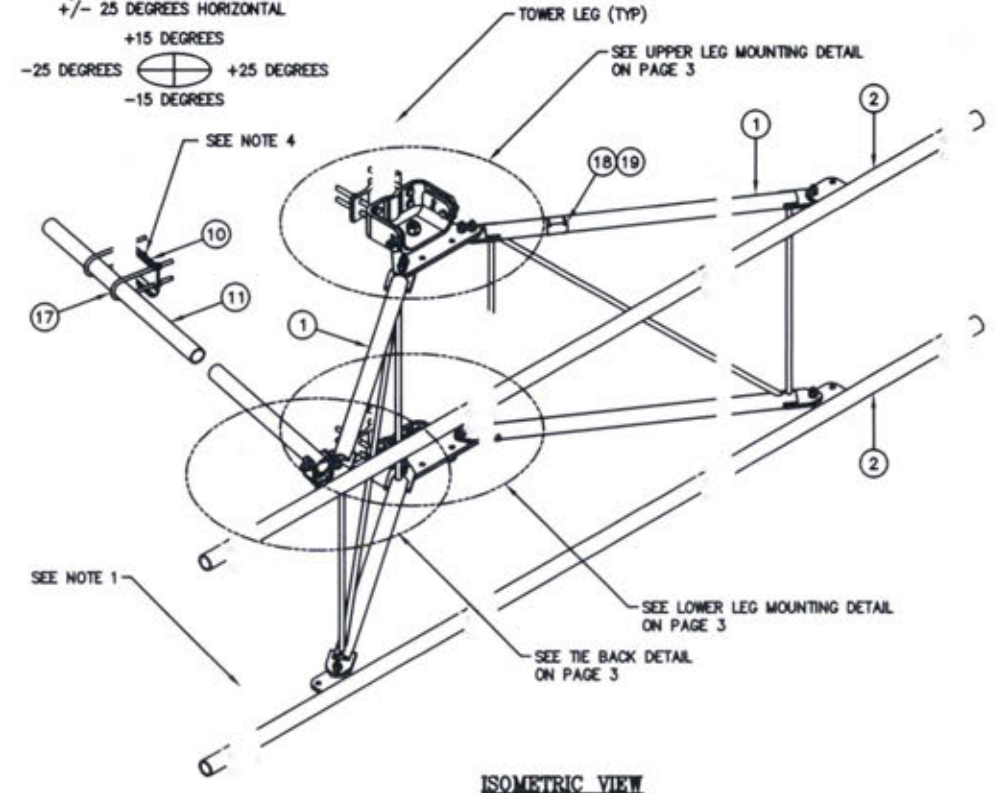
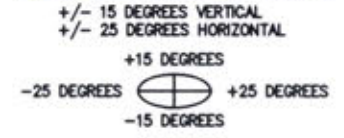


NOTE: FIGURE 1: A SECTOR FRAME IS SHOWN WITH A MAST PIPE (RED) ATTACHED TO THE UPPER AND LOWER STANDOFF ARMS, USING CROSSOVER PLATES. THE MAST PIPE, USED AS AN RRU MOUNTING PIPE, IS WITHIN 12 INCHES OF THE CONNECTION POINT TO THE LEG (NOT TO SCALE). FOR MEASUREMENT PURPOSES, THE CONNECTION POINT IS CONSIDERED TO BEGIN WHERE THE STANDOFF ARM MEETS THE CONNECTION ASSEMBLY.

C10857001C 12' HD V-BOOM ASSEMBLY W/TIEBACK				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	2	CW01222	WELDMENT, STANDOFF ARM	126
2.	2	CW01223	WELDMENT, FACE PIPE	147
3.	2	CS03109	PLATE, ROTATING	34
4.	1	CS03110	PLATE, PIVOTING (UPPER)	16
5.	1	CS03111	PLATE, LEG CLAMP (UPPER)	17
6.	1	CS03112	PLATE, PIVOTING (LOWER)	14
7.	1	CS03113	PLATE, LEG CLAMP (LOWER)	17
8.	2	CS03114	PLATE, LEG CLAMP (BACK)	14
9.	1	CS00098	PLATE, TIE BACK SWIVEL	3
10.	1	CS03285	PLATE, TIE BACK CLAMP	4
11.	1	CS03333	PIPE, TIE BACK	38
12.	2	C40028073	BOLT ASSEMBLY, 1 # X 3 A325	4
13.	8	C40140004	BOLT ASSEMBLY, 5/8 # X 8 A307	13
14.	1	C40028033	BOLT ASSEMBLY, 5/8 # X 4 1/2 A325	1
15.	12	C40028025	BOLT ASSEMBLY, 5/8 # X 2 1/2 A325	6
16.	5	C40028024	BOLT ASSEMBLY, 5/8 # X 2 1/4 A325	3
17.	2	C40034183	U-BOLT ASSEMBLY, 1/2 # X 2 15/16 C-C	3
18.	1	Z30992001	MOUNT CLASSIFICATION TAG C10857001C	1
19.	2	C40062103	STAINLESS STEEL SELF-LOCKING CABLE TIE	1
TOTAL WEIGHT				462

PACKAGING NOTE
CK00386 INCLUDES ITEMS 1, 3, 4, 5, 6, 7, 12 & 15 (8 QTY)
CK00387-HDW INCLUDES ITEMS 8, 9, 10, 13, 14, 15 (4 QTY), 16, 17, 18 & 19
CK00387-STL INCLUDES ITEMS 2 & 11

TIEBACK ANGLE RANGE DETAIL



ISOMETRIC VIEW

NOTES:
1. MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
2. QUANTITIES SHOWN IN LISTS OF MATERIAL ARE FOR ONE (1) V-BOOM ONLY.
3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" TO 5 9/16" ROUND LEG.
4. TIEBACK MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL UNLESS APPROVED BY THE ENGINEER OF RECORD.

INSTALLATION NOTES:

- INSTALL MOUNT TO TOWER AS SHOWN, SO THAT WELDED STANDOFF DIAGONAL IS SLOPING DOWNWARD FROM TOWER END TO FACE PIPE END.
- UPPER PIVOTING PLATE (ITEM 4) HAS THREE HOLES ON EACH SIDE AND UPPER LEG CLAMP PLATE (ITEM 5) HAS TWO HOLES ON EACH SIDE FOR TAPER ADJUSTMENT.
- INSTALL PRODUCT EXACTLY AS SHOWN IN DRAWING, WITH ALL BOLTS FACING UPWARDS.

REV	DATE	DESCRIPTION
1	12/22/15	ISSUE FOR PERMIT
2	03/31/22	PERMIT/CONSTRUCTION



12' HD V-BOOM ASSEMBLY W/TIEBACK (3' STANDOFF) W/NO ANTENNA MOUNTING PIPES

DATE	12/22/15	SIZE	B	DRAWING NO.	C10857001C	REV	4
DRAWN BY	WFF	SCALE	None			PAGE	1 OF 3
CHECKED BY	EX	SCALE	N.T.S.				1

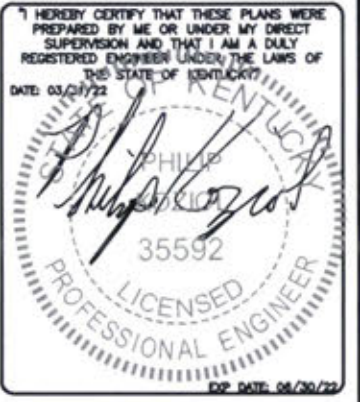
ANTENNA FRAME DETAIL
SCALE: N.T.S.
2



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PHONE: 847-277-0070
EMAIL: AEO@westchesterservices.com

DRAWN BY:	DWM	
CHECKED BY:	MC	
REV	DATE	DESCRIPTION
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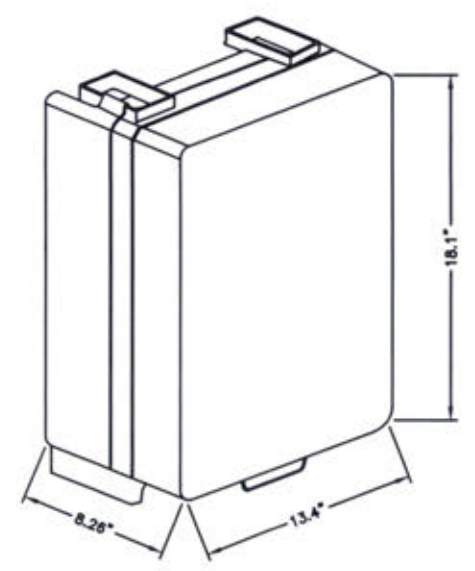
AT&T SITE# KYL06208
AT&T SITE NAME: PINE KNOT RELO
FA # 15312904
SITE ADDRESS: 5787 S. HWY 1651 PINE KNOT, KY 42635

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
AT-C-3

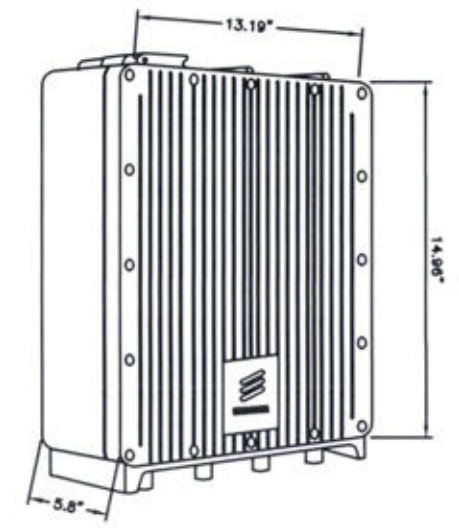
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MANUFACTURER: ERICSSON
 MODEL NO.: RRUS 4478 B14
 WEIGHT: 59.4 LBS
 FREQUENCIES: 700
 - TX=758-788 MHz
 - RX=788-798 MHz
 CONNECTOR TYPE: 4.3-10 FEMALE



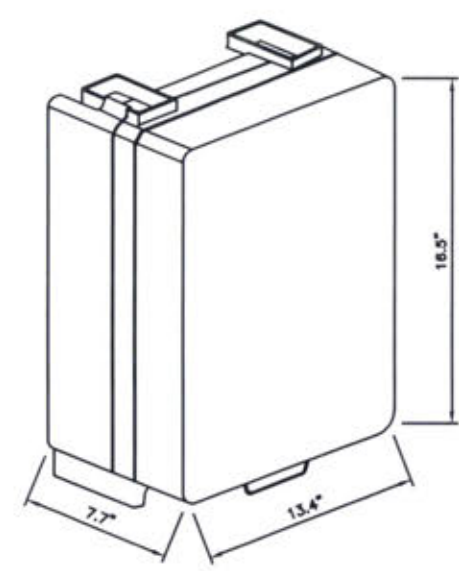
REMOTE RADIO HEAD DETAIL 7

MANUFACTURER: ERICSSON
 MODEL NO.: RRUS 4426 B66
 WEIGHT: 48.4 LBS
 FREQUENCIES: AWS
 - TX=2110-2180 MHz
 - RX=1710-1780 MHz
 CONNECTOR TYPE: 4.3-10 FEMALE



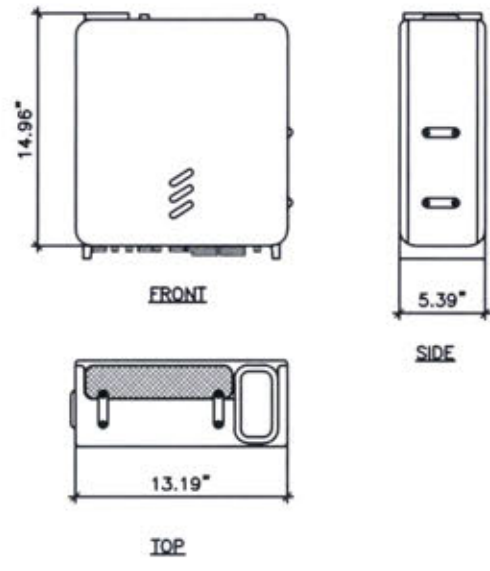
REMOTE RADIO HEAD DETAIL 6

MANUFACTURER: ERICSSON
 MODEL NO.: RRUS 4478 B5
 WEIGHT: 59.9 LBS
 FREQUENCIES: 850
 - TX=809-894 MHz
 - RX=824-849 MHz
 CONNECTOR TYPE: 4.3-10 FEMALE



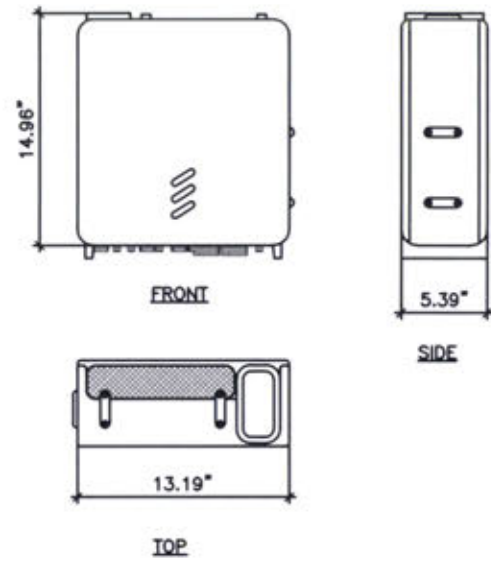
REMOTE RADIO HEAD DETAIL 5

ERICSSON RRUS 4415 B30
 DIMENSIONS, HxWxD: 14.96"x13.19"x5.39"
 WEIGHT, WITHOUT MOUNTING KIT: ±21 kg (46 lbs)



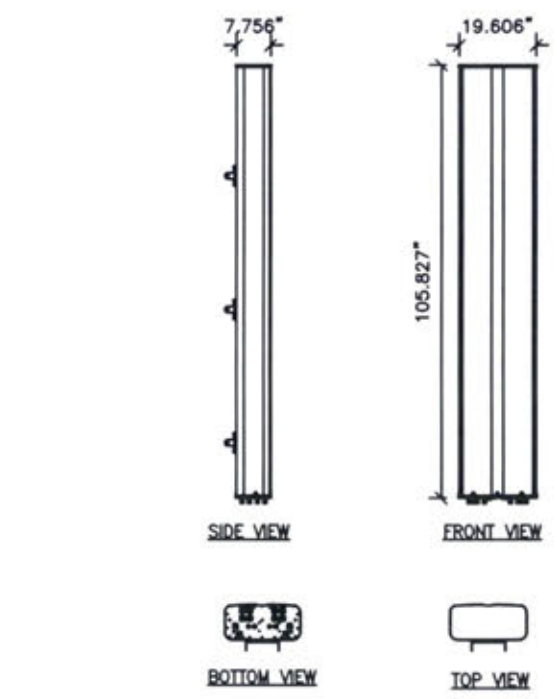
REMOTE RADIO HEAD DETAIL 4

ERICSSON RRUS 4415 B5
 DIMENSIONS, HxWxD: 14.96"x13.19"x5.39"
 WEIGHT, WITHOUT MOUNTING KIT: ±21 kg (46 lbs)

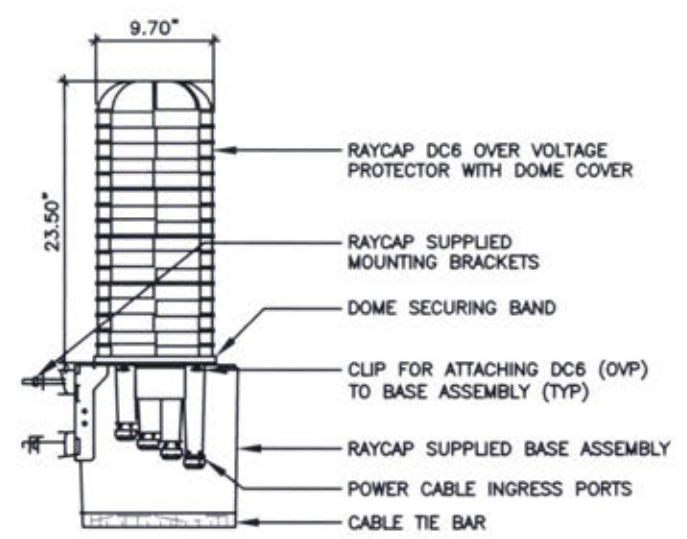


REMOTE RADIO HEAD DETAIL 2

NNH4-65D-R
 DIMENSIONS, HxWxD: 268x498x197mm (105.827"x19.606"x7.756")
 WEIGHT, WITHOUT MOUNTING BRACKET: 43.4 kg (95.681 lbs)
 CONNECTOR: 4.3-10 FEMALE
 CONNECTOR POSITION: BOTTOM
 RADOME COLOR: LIGHT GRAY



ANTENNA DETAIL 3



RAYCAP DC9-48-60-24-8C-EV (SQUID) 1

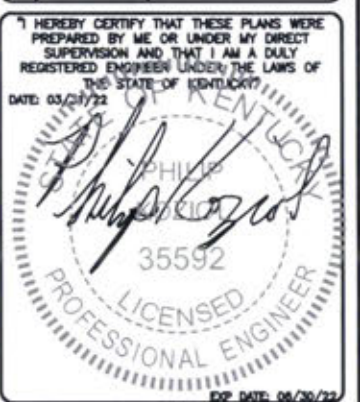


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AT&T SITE # KYL06206
 AT&T SITE NAME:
 PINE KNOT RELO
 FA # 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

SHEET TITLE
 RRH, ANTENNA &
 EQUIPMENT SPECS.

SHEET NUMBER
AT-C-4

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(1) NEW 2" UNDERGROUND CONDUIT FOR NEW ELECTRICAL SERVICE FROM NEW UTILITY H-FRAME TO NEW ELECTRICAL SERVICE ENTRY INSTALLED BY AT&T (APPROX. ±22')

NEW AT&T WALK UP CABINET ON NEW AT&T 20'-0"x5'-6" SLAB FOUNDATION

3'-0" MIN. TO AVOID GROUNDING

NEW AT&T 200A METER IN MULTI-TENANT 4 GANG METER BANK ON UTILITY H-FRAME SEE DETAIL #1/AT-E-2

4'-0" SINGLE SWING ACCESS GATE

(3) SITE BOLLARDS

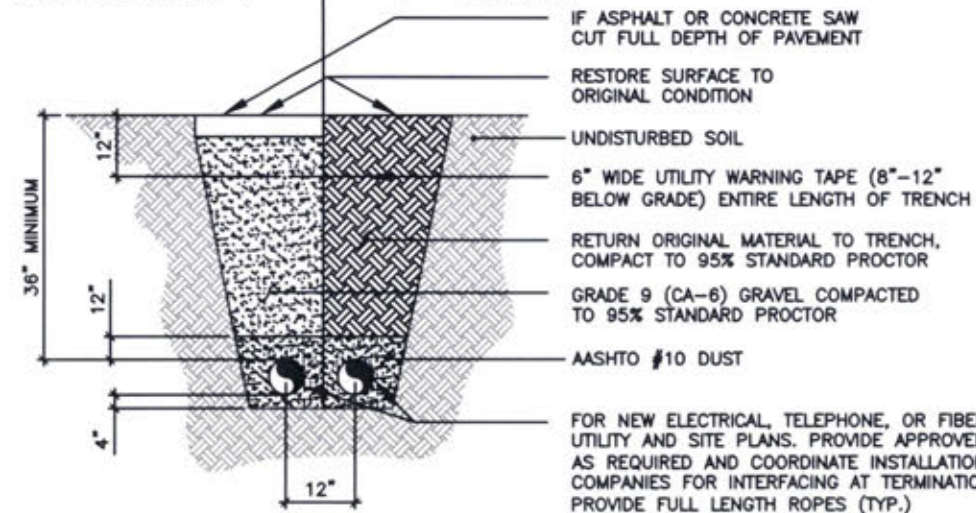
SITE TRANSFORMER

SITE HANDHOLE

(1) NEW 4" UNDERGROUND CONDUIT FOR NEW FIBER SERVICE FROM NEW UTILITY H-FRAME TO NEW FIBER SERVICE ENTRY INSTALLED BY AT&T (APPROX. ±22')

USE THIS SECTION UNDER PAVEMENT OR VEHICLE TRAFFIC AREA

USE THIS SECTION UNDER GRASS OR LAWN AREA



IF ASPHALT OR CONCRETE SAW CUT FULL DEPTH OF PAVEMENT
RESTORE SURFACE TO ORIGINAL CONDITION
UNDISTURBED SOIL
6" WIDE UTILITY WARNING TAPE (8"-12" BELOW GRADE) ENTIRE LENGTH OF TRENCH
RETURN ORIGINAL MATERIAL TO TRENCH, COMPACT TO 95% STANDARD PROCTOR
GRADE 9 (CA-6) GRAVEL COMPACTED TO 95% STANDARD PROCTOR
AASHTO #10 DUST

FOR NEW ELECTRICAL, TELEPHONE, OR FIBER SERVICES—SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED AND COORDINATE INSTALLATION W/ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH ROPES (TYP.)

TYPICAL TRENCH DETAIL

SCALE: 2
N.T.S.

NOTE:
1. EXCAVATE EXISTING SUBGRADE AS REQUIRED TO INSTALL CONDUITS IN ACCORDANCE WITH OSHA AND ALL APPLICABLE CODES.



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DRAWN BY: DWM
CHECKED BY: MC

REV	DATE	DESCRIPTION
0	03/17/22	PERMIT/CONSTRUCTION
1	03/31/22	PERMIT/CONSTRUCTION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
DATE: 03/21/22
PHILIP P. HARRIS
35592
PROFESSIONAL ENGINEER
EXP. DATE: 06/30/23



Know what's below.
Call before you dig.

LEGEND

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



ENLARGED UTILITY PLAN

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/16" = 1'-0" (11x17)

1

AT&T SITE # KYL06208
AT&T SITE NAME:
PINE KNOT RELO
FA # 15312904
SITE ADDRESS:
5787 S. HWY 1651
PINE KNOT, KY 42635

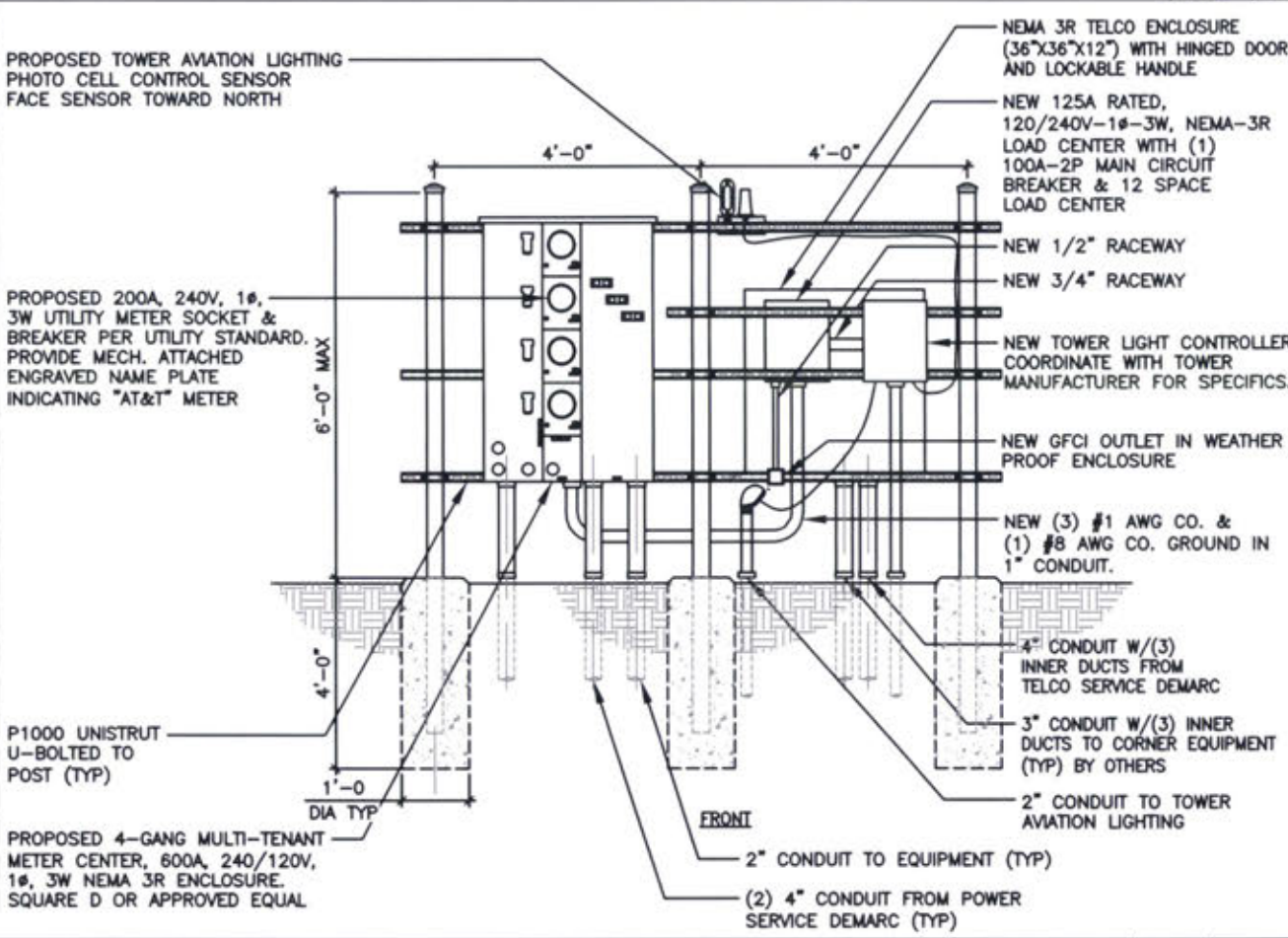
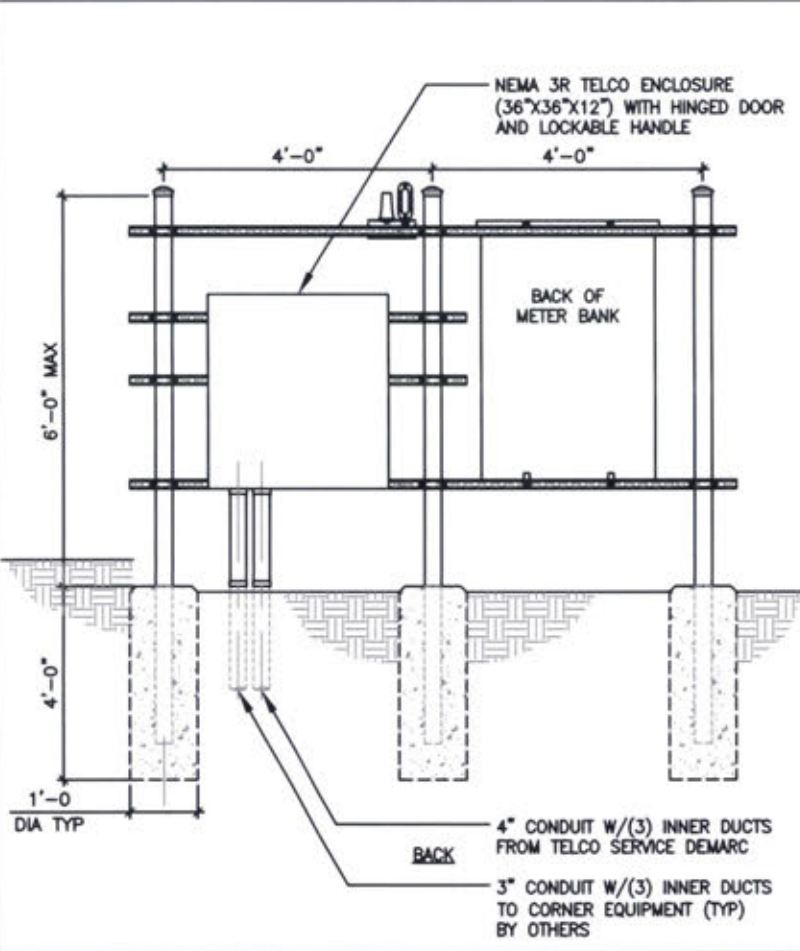
SHEET TITLE
ENLARGED
UTILITY PLAN

SHEET NUMBER
AT-E-1

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 - CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.
 - PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
- CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.

METER POSITION 2 - AT&T INTEGRATED LOAD CENTER																									
LOAD		LOAD PER PHASE (VA)										LOAD PER PHASE (VA)		LOAD											
DESCRIPTION	QTY.	UNIT V.A.	PHASE		WIRE COLOR	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS CONTINUOUS	LOADS NON-CONTINUOUS	WIRE COLOR	PHASE		UNIT V.A.	QTY.	DESCRIPTION		
			A	B															A	B					
RECTIFIER #1	1	1400	1400		BLK	X			8	(10)	40	40	(10)	8				BLK	1400		1400	1	RECTIFIER #5	2	
	1	1400		1400	RED				8	(10)	40	40	(10)	8				RED		1400	1400	1		4	
RECTIFIER #2	1	1400	1400		BLK	X			8	(10)	40	40	(10)	8				BLK	1400		1400	1	RECTIFIER #6	6	
	1	1400		1400	RED				8	(10)	40	40	(10)	8				RED		1400	1400	1		8	
RECTIFIER #3	1	1400	1400		BLK	X			8	(10)	40	40	(10)	8				BLK	1400		1400	1	RECTIFIER #7	10	
	1	1400		1400	RED				8	(10)	40	40	(10)	8				RED		1400	1400	1		12	
RECTIFIER #4	1	1400	1400		BLK	X			8	(10)	40	40	(10)	8				BLK	1400		1400	1	RECTIFIER #8	14	
	1	1400		1400	RED				8	(10)	40	40	(10)	8				RED		1400	1400	1		16	
					BLK													BLK						18	
					RED	X			12	12	20							RED						20	
GFCI RECEPTACLES	1	180	360		BLK	X			12	(12)	20							BLK						22	
OPTIONAL FIBER BOX RECEPTACLE	1	180	180		RED	X			12	12	20							RED						24	
BATTERY CHARGER	1	240	240		BLK	X			12	12	20							BLK						26	
SPARE					RED	X			12	12	20							RED						28	
SPARE					BLK	X			12	12	20							BLK						30	
SUBTOTAL CONTINUOUS			6200	5780															5,800	5,800	SUBTOTAL CONTINUOUS		TOTAL AMPS CONTINUOUS x 1.25	28975	
SUBTOTAL NON-CONTINUOUS			-	-															-	-	SUBTOTAL NON-CONTINUOUS		TOTAL AMPS NON-CONTINUOUS	-	
SUBTOTAL SUB-PANEL			-	-															-	-	SUBTOTAL SUB-PANEL		TOTAL KVA	28.97	
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 2)																							TOTAL AMPS	120.72	
MAIN LUGS: N/A		MAIN BREAKER: 200 AMP		BRANCH BREAKER TYPE: SIEMENS - BL																					
VOLTAGE: 120/240		CYCLE: 60		PHASE: 1		WIRES: 3		MAIN COPPER BUS: 200 AMPS		NEUTRAL: 200 AMPS															

AT&T P - B PANEL SCHEDULE



UTILITY FRAME DETAIL

SCALE N.T.S. 2

SCALE N.T.S. 1

ELECTRICAL NOTES

SCALE N.T.S. 4

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DRAWN BY:	DWM
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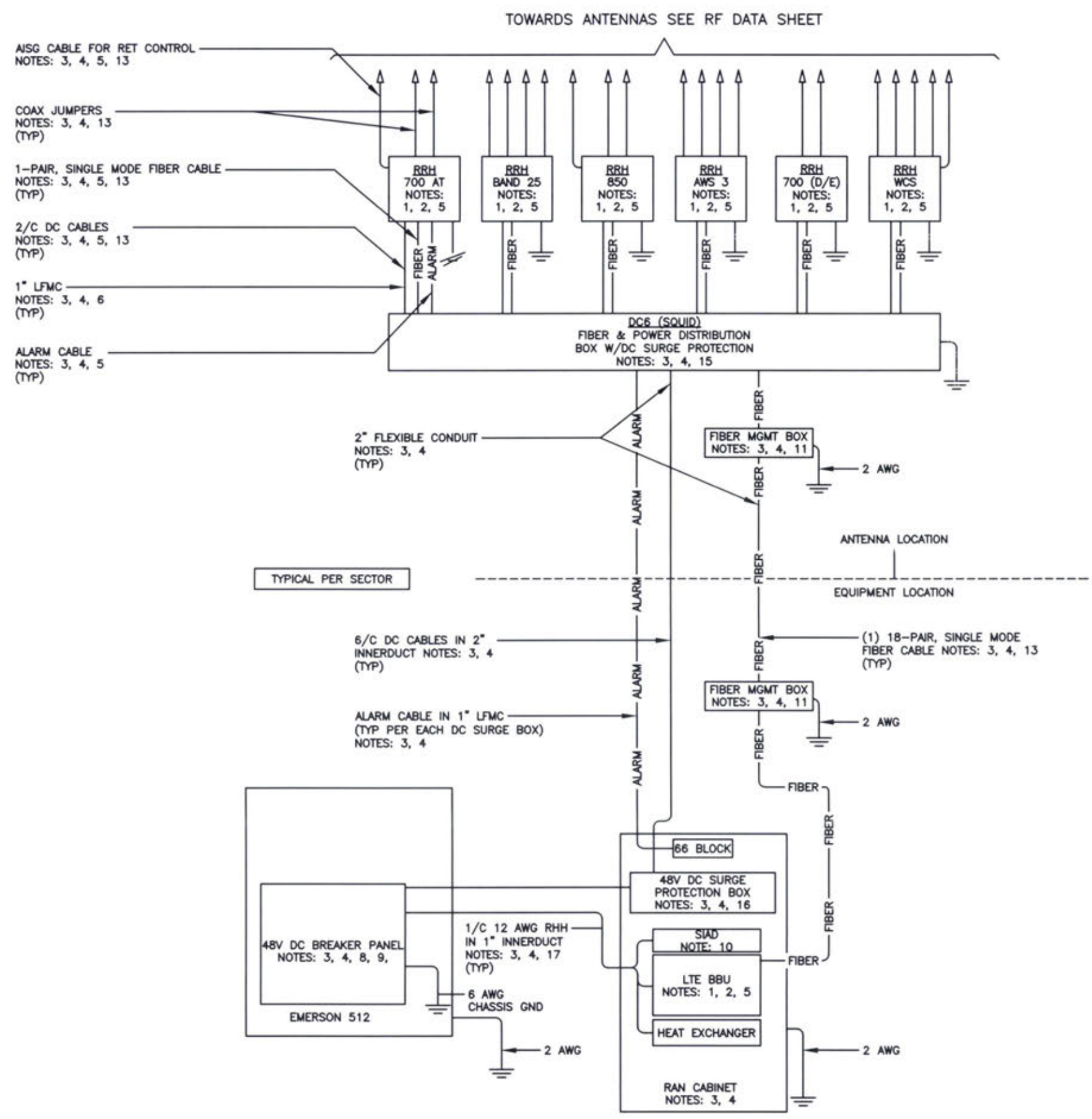
EXP. DATE: 06/30/23

AT&T SITE# KYL06206
 AT&T SITE NAME:
 PINE KNOT RELO
 FA # 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

SHEET TITLE
**ELECTRICAL SCHD.,
 DIA & NOTES**

SHEET NUMBER
AT-E-2

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.



NOTES:

1. FURNISHED BY OEM/AT&T.
2. INSTALLED BY OEM OR AS SCOPED BY MARKET.
3. FURNISHED BY OTHERS
4. INSTALLED BY OTHERS
5. FINAL CONNECTION BY OEM OR AS SCOPED BY MARKET.
6. OPEN END OF LFMC TO BE LEFT WEATHERPROOFED UNTIL TERMINATED.
7. DELETED.
8. BREAKERS SPECIFIED SOLD SEPARATELY.
9. BREAKERS TO BE TAGGED AND LOCKED OUT.
10. SIAD IS FURNISHED AND INSTALLED BY OTHERS AND INCLUDES POWER CONNECTIONS AND FIBER TO THE UNIT OR AS SCOPED BY MARKET. INSTALL 10 AWG CHASSIS GROUND, PROVIDE (2) 10A BREAKERS FROM A 24V DC POWER SOURCE OR (2) 5A BREAKERS FROM A 48V DC POWER SOURCE AND CONNECT USING MFR POWER CABLE WITH SPECIAL CONNECTOR.
11. FIBER MANAGEMENT BOX IS J-SOURCE MODEL 12126FM4SEC.
12. LEC TO FURNISH AND INSTALL NETWORK INTERFACE DEVICE.
13. LEAVE COILED AND PROTECTED UNTIL TERMINATED.
14. SEE DETAIL 1408 FOR DC POWER CABLE SIZES.
15. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-18-BF.
16. POWER DISTRIBUTION W/DC SURGE PROTECTION BOX SHALL BE RAYCAP MODEL DC6-48-60-0-18.
17. SINGLE-CONDUCTOR DC POWER CABLES SHALL BE TELCOFLEX OR KS24194, COPPER, UL LISTED RHH NON-HALOGEN, LOW SMOKE WITH BRAIDED COVER, TYPE TC (1/0 AND LARGER). UNLESS OTHERWISE NOTED, STRANDING SHALL BE CLASS B (TYPE III) FOR CABLES SIZES 14, 12 & 10 AWG AND CLASS 1 (TYPE IV) FOR SIZES 8 AWG AND LARGER. CABLES SHALL BE COLOR CODED RED FOR +24V, BLUE FOR -48V AND GRAY FOR 24V AND 48V RETURN CONDUCTORS. MULTI-CONDUCTOR DC POWER CABLES SHALL COPPER, CLASS B STRANDED WITH FLAME RETARDANT PVC JACKET, TYPE TC, UL LISTED FOR 90°C DRY/ 75°C WET INSTALLATION.
18. 10A FUSE FOR HEAT EXCHANGER FURNISHED AND INSTALLED BY OTHERS.
19. DELETED
20. GROUNDING WIRES SHALL BE COPPER, GREEN THHN/THWN UL LISTED FOR 90°C DRY/75°C WET INSTALLATION. MINIMUM SIZE IS 6 AWG UNLESS NOTED OTHERWISE.
21. RET CONTROL FROM THE RRH IS AN OPTIONAL METHOD OF CONNECTION. REFER TO RF DATA SHEET FOR APPLICABILITY.
22. DELETED.
23. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-0-1E.
24. FIBER MANAGEMENT BOX IS COMMSCOPE MODEL FB 18188.
25. FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC12-48-60-0-25E.



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DRAWN BY: DWM
 CHECKED BY: MC

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0	03/17/22	PERMIT/CONSTRUCTION
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 DATE: 03/31/22

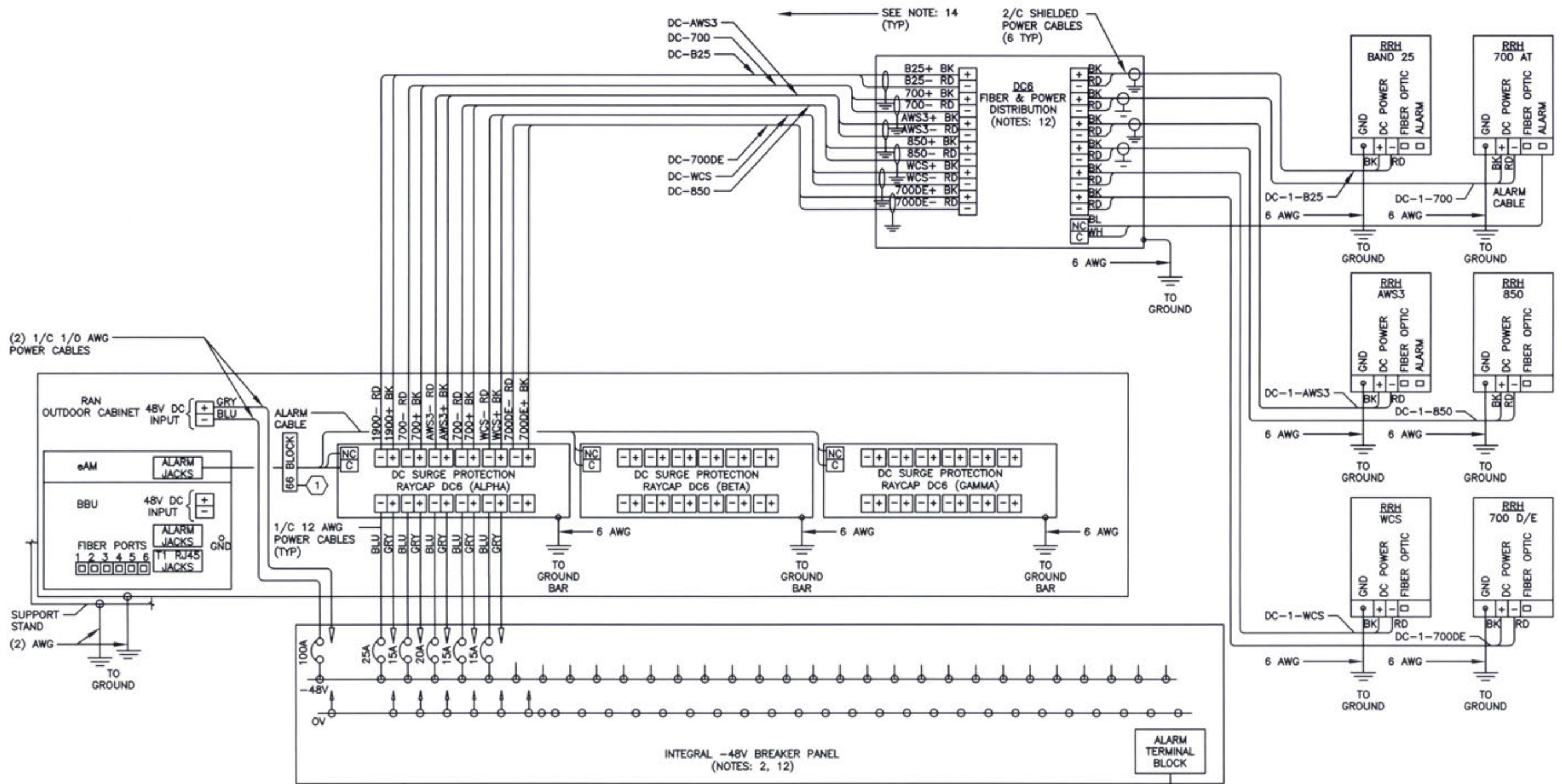
 EXP. DATE: 06/30/22

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 AT&T SITE NAME:
 PINE KNOT RELO
 FA # 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

SHEET TITLE
DC/FIBER SYSTEM DIAGRAM

SHEET NUMBER
AT-E-3

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- NOTES**
1. LABEL THE DC POWER CABLES AT BOTH ENDS OF EVERY WIRE AND IN ANY PULL BOX IF USED. LABEL SHALL BE DURABLE, SELF ADHESIVE, WRAPPED LONGITUDINALLY ALONG THE CABLE AND STATE THE SECTOR, FREQUENCY BAND AND POLARITY; I.E. 'A-AWS+'.
 2. INSTALL ON IN AUXILIARY EQUIPMENT CABINET.
 3. CABLE TERMINALS FOR +24V INPUT FEED A, FEED B AND REFERENCE GROUND SHALL BE 2-HOLE: 3/8" ON 1" CENTER.
 4. INSTALL CABLE TERMINALS FOR FEED A AND FEED B RETURN BACK-TO-BACK ON OPPOSITE SIDES OF PAD USING 1-HOLE 3/8" TERMINALS.
 5. CABLE TERMINALS FOR CHASSIS GROUND SHALL BE 2-HOLE, 1/4" ON 5/8" CENTER.
 6. WHEN DISTRIBUTION BOX IS NOT USED, INSTALL 3 RUNS OF (2) 2/C CABLES IN CONDUIT, 1 EACH FROM DC SURGE SHELF TO DC6s.
 7. A JUNCTION BOX IS REQUIRED WHEN FIBER OPTIC CABLES ARE INSTALLED IN CONDUIT AS SCOPED BY MARKET.
 8. CONVERTER REFERENCE GROUND IS NOT REQUIRED WHEN CONVERTER AND 24V DC POWER PLANT ARE ON THE SAME RACK OR ENCLOSURE.
 9. THE BARE GROUND WIRE OF EACH MULTI-CONDUCTOR CABLE AND DRAIN WIRE WHEN A SHIELDED CABLE IS USED, SHALL BE CONNECTED TO THE EQUIPMENT CABINET GROUND BAR.
 10. SEE ALARM BLOCK ASSIGNMENT DETAIL FOR ALARM CABLE CONNECTIONS.
 11. PROVIDE A JUNCTION BOX, AS SCOPED BY MARKET, TO COIL EXCESS DC POWER AND OPTICAL FIBER CABLES (FIBER CABLES NOT SHOWN FOR CLARITY)
 12. NOTED EQUIPMENT MAY BE COMMON TO LTE AND UMTS SYSTEMS.
 13. CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRH.
 14. WHEN AN RRH IS USED INSTEAD OF AN AWS RRH CABLE, LABELS SHOULD REFLECT CORRECT FREQUENCY BAND.

TYPICAL PER SECTOR

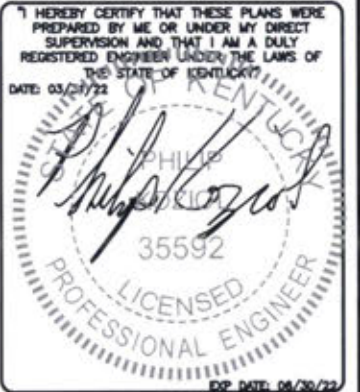


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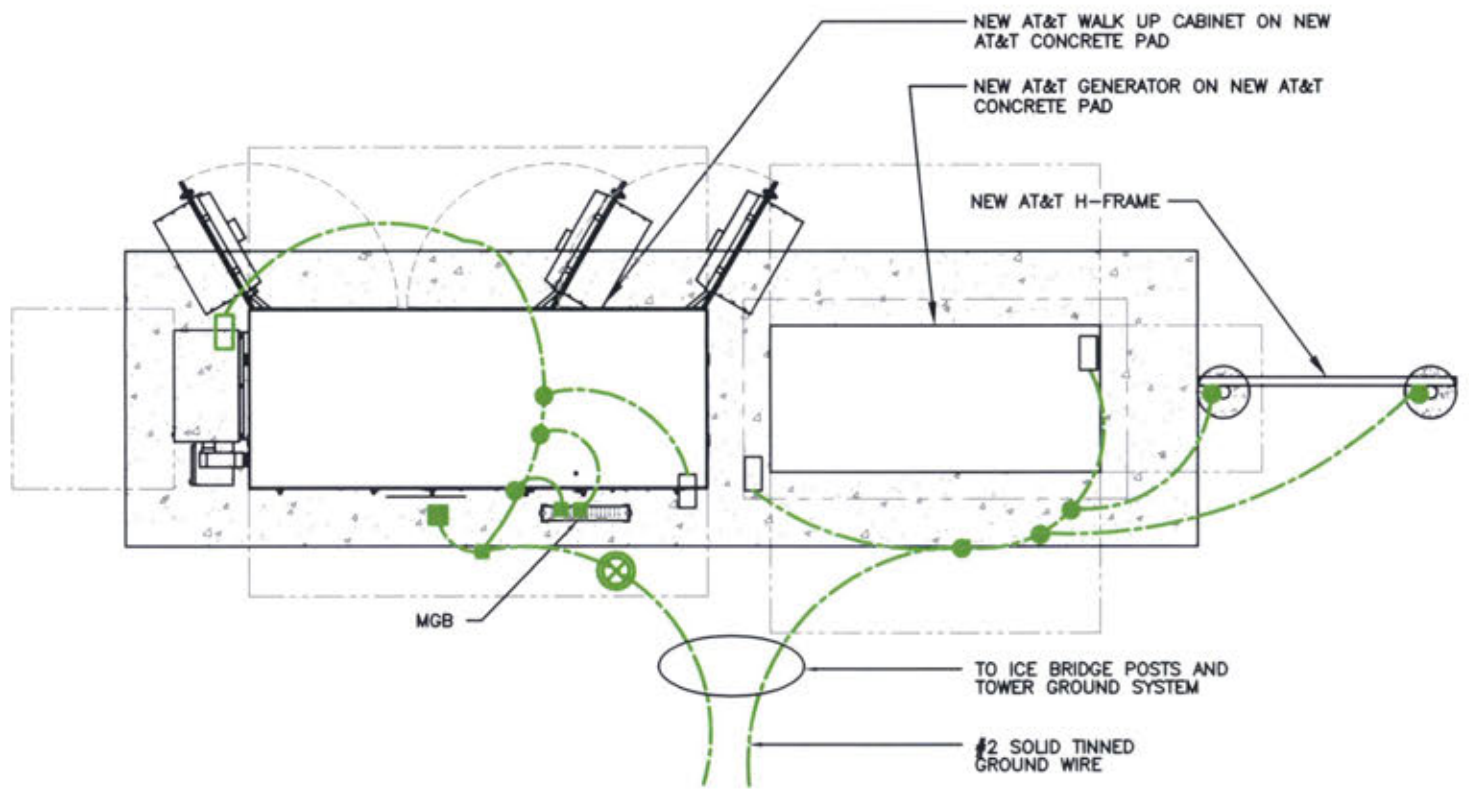
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SHEET TITLE
 DC WIRING
 DIAGRAM

SHEET NUMBER
AT-E-4

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GROUNDING LEGEND	
	MECHANICAL CONNECTION
	COMPRESSION FITTING CONNECTION
	EXOTHERMIC WELD CONNECTION
	5/8"x10' COPPER-CLAD STEEL GROUND ROD
	5/8"x10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL
	PROPOSED GROUND WIRING
	EXISTING GROUND WIRING
	TINNED COPPER GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20"
CGB	COLLECTOR GROUND BAR
MGB	MAIN GROUND BAR

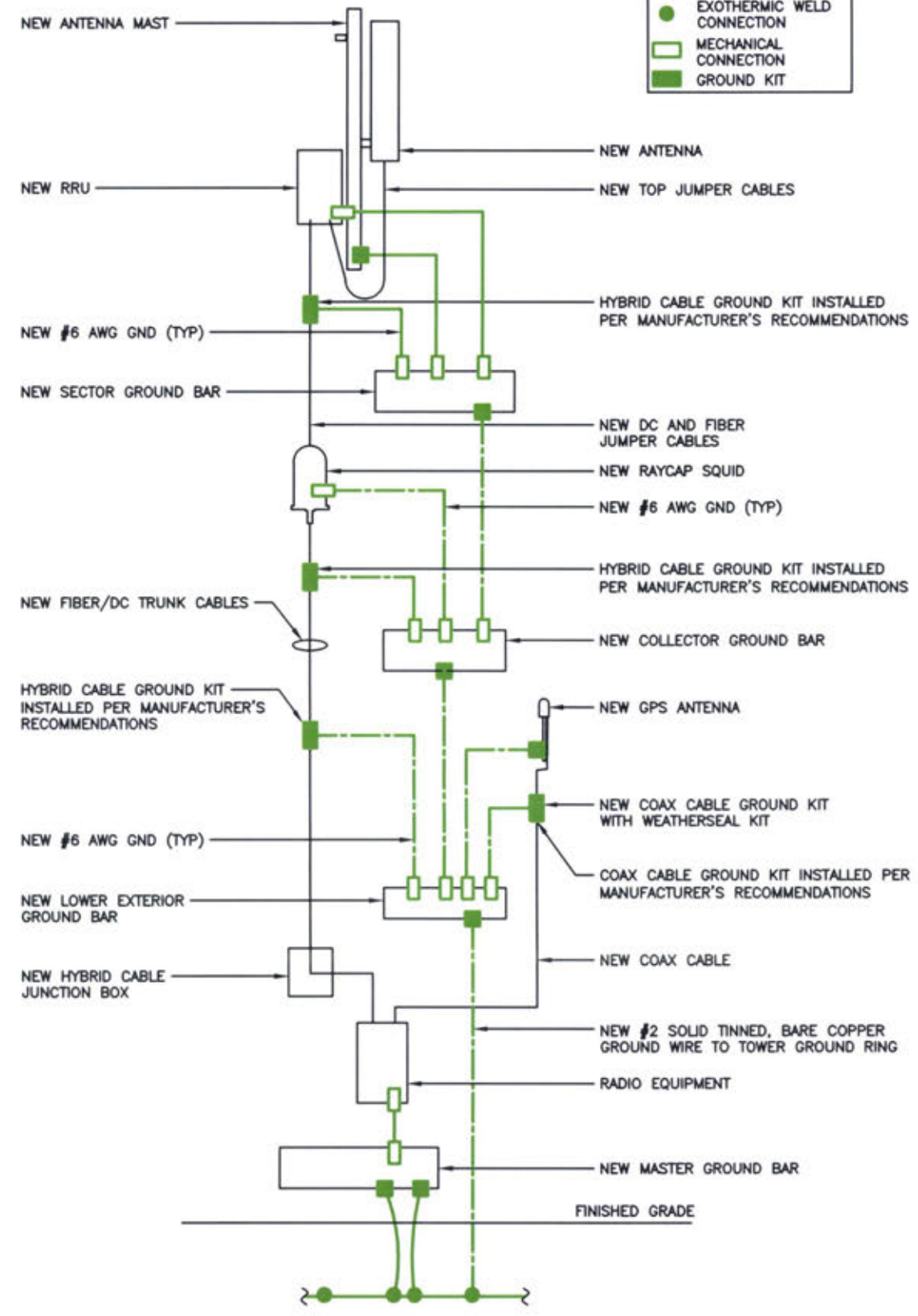


GROUNDING PLAN

SCALE N.T.S. **2**

NOTE: GROUND LEAD INSIDE RUBBER GROMMET TO BE ATTACHED WITH X-CROSS ZIP TIES TO BRACKET. DO NOT USE SNAP-IN HANGERS AROUND GROUNDS.

LEGEND	
	COMPRESSION FITTING CONNECTION
	EXOTHERMIC WELD CONNECTION
	MECHANICAL CONNECTION
	GROUND KIT



RISER DIAGRAM

SCALE N.T.S. **1**



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I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.
 DATE: 03/29/22

 PHILIP KOZLOSKI
 35592
 LICENSED PROFESSIONAL ENGINEER
 EXP. DATE: 06/30/27

AT&T SITE# KYL06206
 AT&T SITE NAME:
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 FA # 15312904
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SHEET TITLE
GROUNDING PLAN & RISER DIAGRAM

SHEET NUMBER
AT-G-1

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GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.
- GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT.
- GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTI-OXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT.
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER.
- PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.
- ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A METROPCS REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- ANY SITE WHERE THE EQUIPMENT (BITS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED COPPER WIRE.

GROUNDING NOTES

SCALE N.T.S. **5**

CABLE COLOR CODING NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES - RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE TO SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

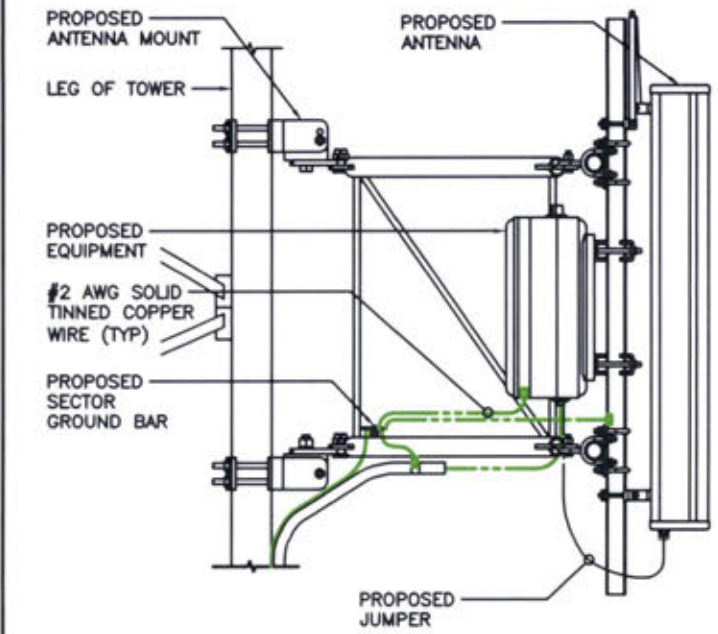
CABLE MARKING TAGS:

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE 1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATING THE SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG" DETAIL.

CABLE MARKING LOCATIONS TABLE	
NO.	LOCATIONS
1	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BITS OR SHELTER.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.
4	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

CABLE COLOR CODING NOTES

SCALE N.T.S. **4**

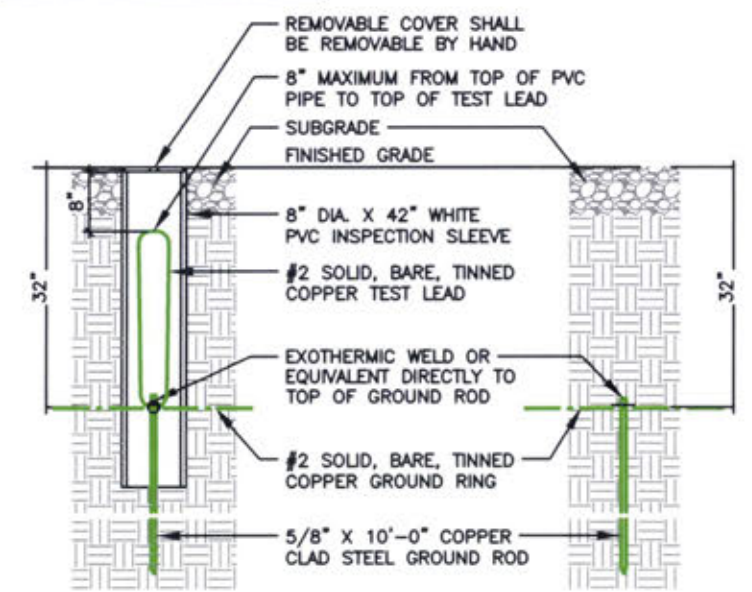


ANTENNA & CABLE GROUNDING

SCALE N.T.S. **3**

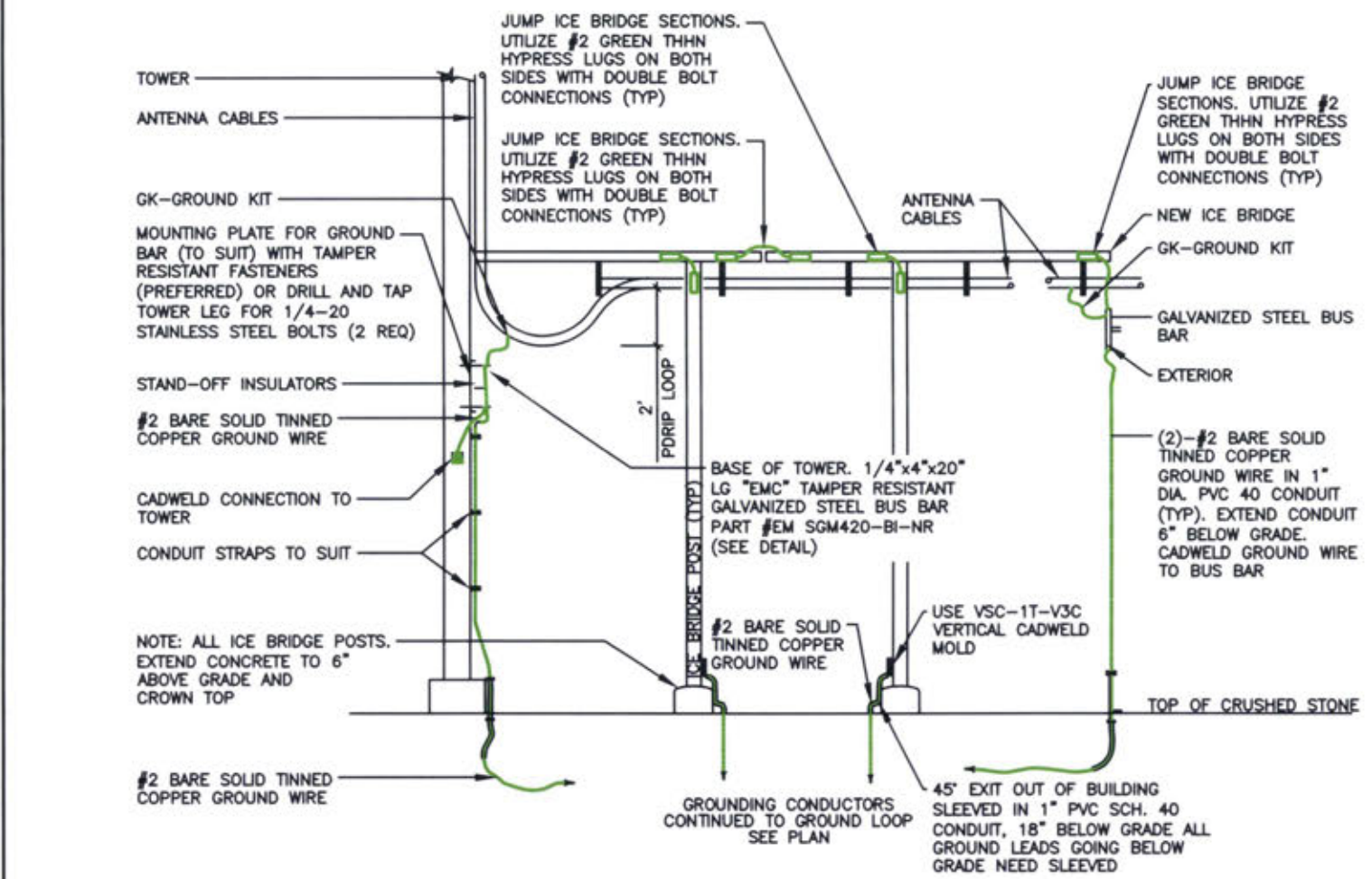
- NOTE: SEE RESISTIVITY REPORT FOR VERIFICATION AS AVAILABLE
- NOTE: GROUND RODS MAY BE COPPER CLAD STEEL OR SOLID COPPER
- NOTE: GROUND RODS SHALL HAVE A RECOMMENDED SPACING TWICE THE LENGTH OF THE ROD

- NOTE: A LARGER CONDUCTOR SHALL BE REQUIRED IN AREAS HIGHLY PRONE TO LIGHTNING AND/OR AREAS W/HIGHLY ACIDIC SOIL
- NOTE: GROUND RODS INSTALLED WITHIN CLOSE PROXIMITY TO TOWER OR WHEN SOIL IS AT OR BELOW 2,000 OHM-CM, SHALL BE GALVANIZED TO PREVENT GALVANIC CORROSION OF TOWER



GROUND WELL, ROD, AND TEST WELL DETAIL

SCALE N.T.S. **2**



COAXIAL GROUNDING AT ICE BRIDGE

SCALE N.T.S. **1**



JOHN M. BANKS ARCHITECT
 604 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-277-0070
 FAX: 847-277-0080
 EMAIL: JBANKS@WESTCHESTERSERVICES.COM

WESTCHESTER SERVICES LLC
 KY FIRM NO. 5130
 604 FOX GLEN
 BARRINGTON, IL 60010
 PHONE: 847-277-0070
 EMAIL: AE@Westchesterservices.com

DRAWN BY: DWM		CHECKED BY: MC	
REV	DATE	DESCRIPTION	
0	03/17/22	PERMIT/CONSTRUCTION	
1	03/31/22	PERMIT/CONSTRUCTION	

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY
 DATE: 03/31/22

AT&T SITE# KYL06206
 AT&T SITE NAME:
 PINE KNOT RELO
 FA # 15312904
 SITE ADDRESS:
 5787 S. HWY 1651
 PINE KNOT, KY 42635

SHEET TITLE
**GROUNDING
 DETAILS & NOTES**

SHEET NUMBER
AT-G-2

EXHIBIT C
TOWER AND FOUNDATION DESIGN

February 23, 2022

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

RE: Site Name – Pine Knot
Proposed Cell Tower
36.6651881 North Longitude, -84.4485311 West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be John Lounsbury. His contact information is (770) 865-2254 or jlounsbury@Tillmaninfrastructure.com

John has been in the industry completing civil construction and constructing towers since 1996. He has worked at Tillman Infrastructures since 2018 completing project and construction management on new site build projects.

Thank you,

Kendra Moorhead

Kendra Moorhead
Director of Construction East Region- Tillman Infrastructure
770-714-9771



Structural Design Report
250' S3TL Series HD1 Self-Supporting Tower
Site: TI-OPP-18773, KY

Prepared for: TILLMAN INFRASTRUCTURE, LLC
by: Sabre Industries™

Job Number: 22-5290-TJH

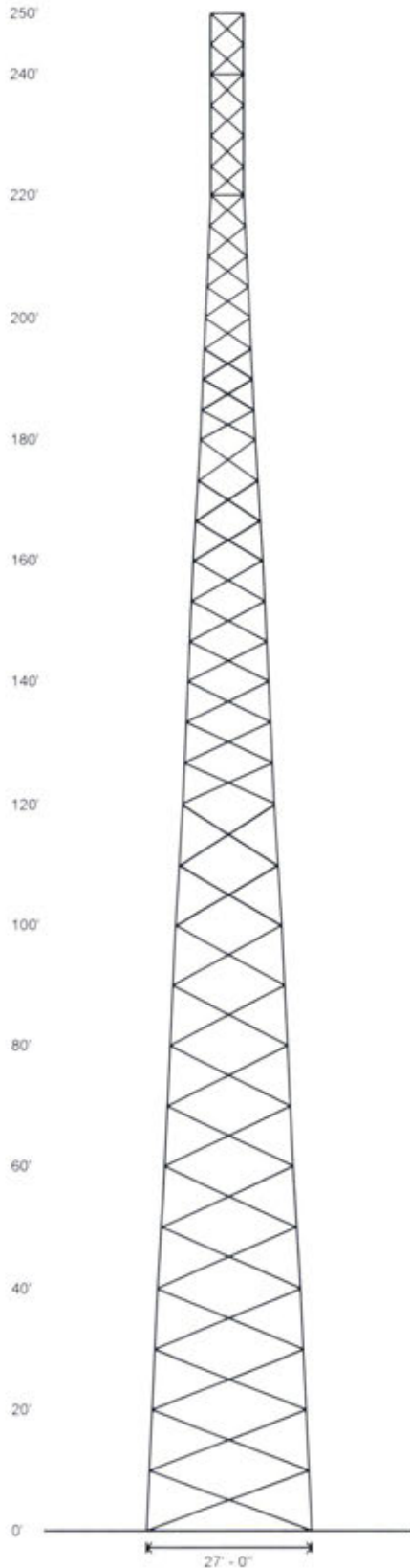
March 23, 2022

Tower Profile.....	1-2
Foundation Design Summary.....	3
Maximum Leg Loads.....	4
Maximum Diagonal Loads.....	5
Maximum Foundation Loads.....	6
Calculations.....	7-24



Digitally Signed By David Hill
DN: c=US, st=Texas,
l=Alvarado, o=SABRE
INDUSTRIES, INC., cn=David
Hill,
email=dhill@sabreindustries.c
om Date: 2022.03.23 16:02:34

Legs	8.625 OD X .322	5.563 OD X .500	5.563 OD X .375	A	B	C	2.875 OD X .276
Diagonals	L 4 X 4 X 1/4	L 3 1/2 X 3 1/2 X 1/4	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	L 2 X 2 X 1/8		L 2 X 2 X 3/16
Horizontals				NONE			
Brace Bolts	(2) 5/8"	(1) 3/4"			(1) 5/8"		
Top Face Width	25'	21'	19'	17'	15'	13'	11'
Panel Count/Height	4482	4089	3730	3519	2763	2417	2309
Section Weight							
						14 @ 5'	
						1230	1115
						1460	549



Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	105 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	1417 ft
Seismic Importance Factor, Ie	1.00
0.2-sec Spectral Response, Ss	0.275 g
1-sec Spectral Response, S1	0.098 g
Site Class	D (DEFAULT)
Seismic Design Category	C
Basic Seismic Force-Resisting System	Telecommunication Tower (Truss: Steel)

Base Reactions - Wind/Ice


	Total Foundation	Individual Footing	
Shear (kips)	48.11	Shear (kips)	29.69
Axial (kips)	139.95	Compression (kips)	329
Moment (ft-kips)	7281	Uplift (kips)	284

Base Reactions - Seismic

	Total Foundation	Individual Footing	
Shear (kips)	2.46	Shear (kips)	3.22
Axial (kips)	63.74	Compression (kips)	41
Moment (ft-kips)	461	Uplift (kips)	5

Notes

- 1) All legs are A500 (50 ksi Min. Yield).
- 2) All braces are A572 Grade 50.
- 3) All brace bolts are A325-X.
- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 6 hole waveguide ladders with stackable hangers.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- 8) All unequal angles are oriented with the short leg vertical.
- 9) Weights shown are estimates. Final weights may vary.
- 10) Tower Rating: 99%
- 11) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.

 <p>Sabre Industries INNOVATION DELIVERED</p>	<p>Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814</p>	<p>Job: 22-5290-TJH</p>
	<p>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or in part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</p>	<p>Customer: TILLMAN INFRASTRUCTURE, LLC</p> <p>Site Name: TJ-OPP-18773, KY</p> <p>Description: 250' S3TL</p> <p>Date: 2022.03.23 By: DJH</p>

Designed Appurtenance Loading


Elev	Description	Tx-Line
242	(1) 278 sq. ft. EPA 6000# (no ice)	(9) 1 1/4"
230	(1) 208 sq. ft. EPA 4000# (no ice)	(9) 1 1/4"
170	Leg Dish Mount	
170	(1) 4' Solid Dish w/ Radome	(1) 1 1/4"

Elev	Description	Tx-Line
160	Leg Dish Mount	
160	(1) 4' Solid Dish w/ Radome	(1) 1 1/4"
150	Leg Dish Mount	
150	(1) 4' Solid Dish w/ Radome	(1) 1 1/4"

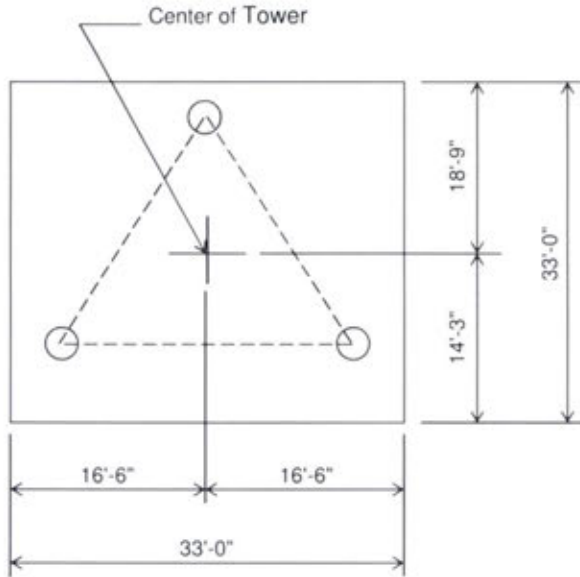
Material List

Display	Value
A	4.500 OD X .337
B	4.000 OD X .318
C	3.500 OD X .300

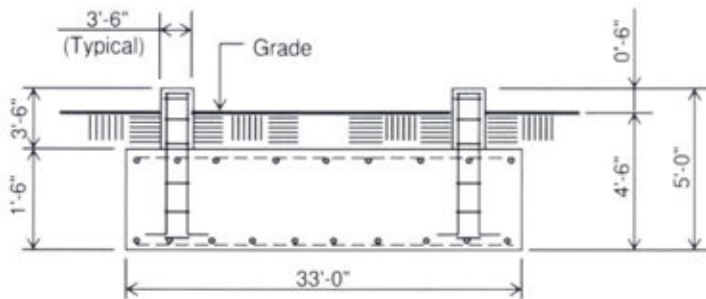
Display	Value
D	L 2 X 2 X 1/8
E	L 2 X 2 X 3/16
F	NONE

 <p>Sabre Industries INNOVATION DELIVERED</p>	<p>Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6990 Fax: (712) 279-0814</p>	<p>Job: 22-5290-TJH</p>
	<p>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</p>	<p>Customer: TILLMAN INFRASTRUCTURE, LLC</p>
		<p>Site Name: TI-OPP-18773, KY</p>
		<p>Description: 250' S3TL</p>
		<p>Date: 2022.03.23 By: DJH</p>

Customer: TILLMAN INFRASTRUCTURE, LLC
Site: TI-OPP-18773, KY
250 ft. Model S3TL Series HD1 Self Supporting Tower



PLAN VIEW



ELEVATION VIEW

(64.2 cu. yds.)
(1 REQD.; NOT TO SCALE)

CAUTION: Center of tower is not in center of slab.

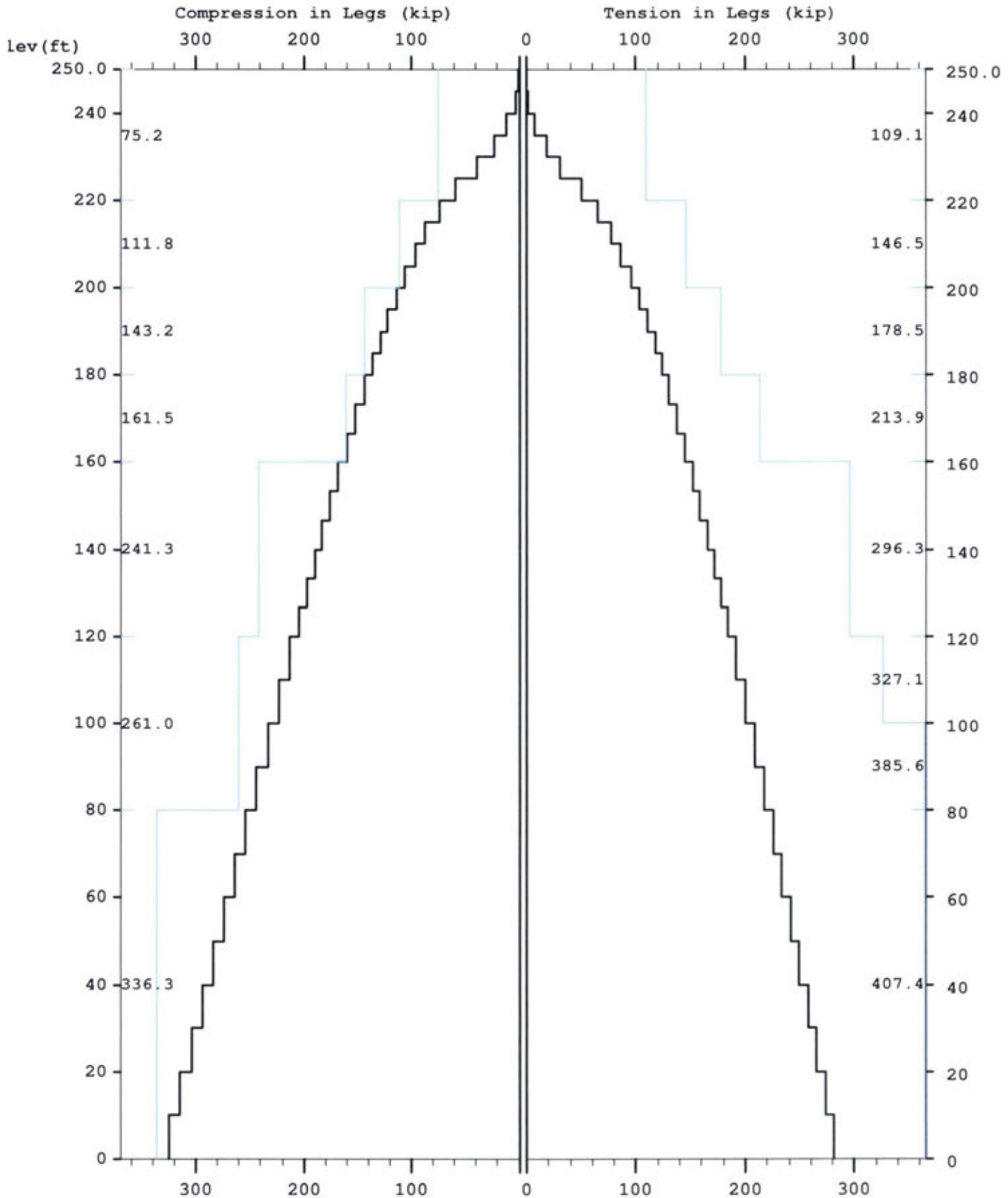
Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Ramaker Job No. 54499, Date: 3/11/2022
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 3' of soil cover is required over the entire area of the foundation slab.
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.
- 9) This foundation is designed for an increase in base reactions of 10%.
- 10) Concrete needs to utilize Type V Portland Cement with a maximum water/cement ratio of 0.45 for the foundation.

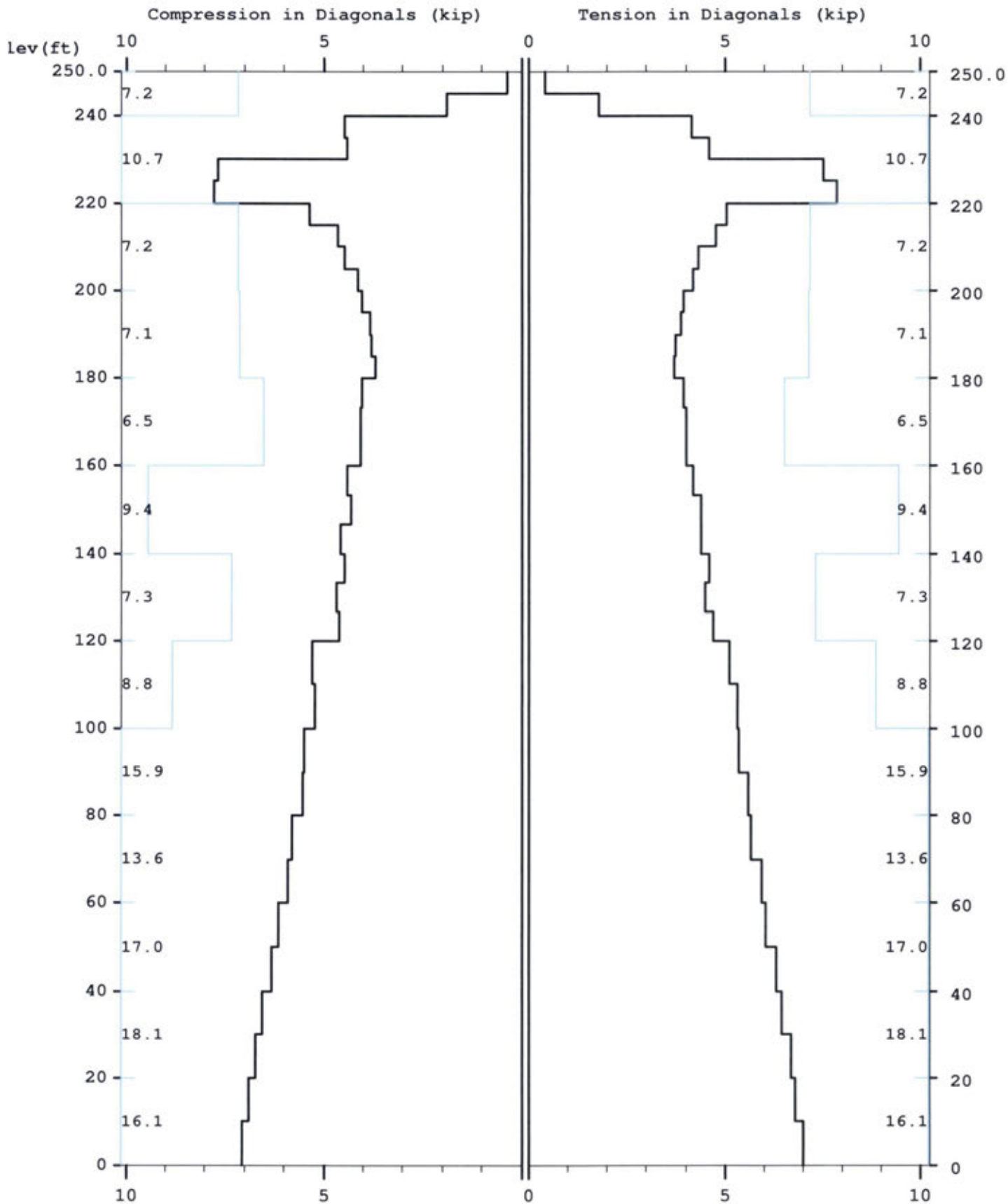
Rebar Schedule per Mat and per Pier	
Pier	(16) #7 vertical rebar w/ hooks at bottom w/ #4 rebar ties, two (2) within top 5" of pier then 4" C/C
Mat	(54) #9 horizontal rebar evenly spaced each way top and bottom. (216 total)
Anchor Bolts per Leg	
(6) 1.25" dia. x 54" F1554-105 on a 12.75" B.C. w/ 8" max. projection above concrete.	

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Maximum

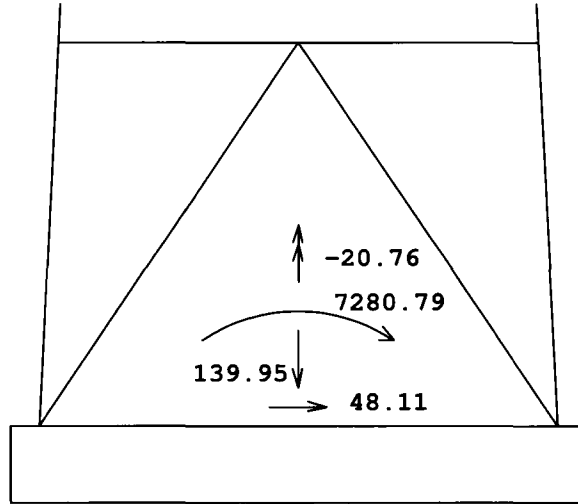


Maximum

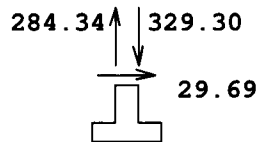
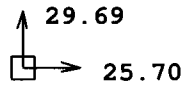


Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



MAST GEOMETRY (ft)

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	3	245.00	250.00	5.00	5.00	5.00
X	3	240.00	245.00	5.00	5.00	5.00
X	3	235.00	240.00	5.00	5.00	5.00
X	3	220.00	235.00	5.00	5.00	5.00
X	3	215.00	220.00	5.50	5.00	5.00
X	3	200.00	215.00	7.00	5.50	5.00
X	3	180.00	200.00	9.00	7.00	5.00
X	3	160.00	180.00	11.00	9.00	6.67
X	3	140.00	160.00	13.00	11.00	6.67
X	3	120.00	140.00	15.00	13.00	6.67
X	3	100.00	120.00	17.00	15.00	10.00
X	3	80.00	100.00	19.00	17.00	10.00
X	3	60.00	80.00	21.00	19.00	10.00
X	3	40.00	60.00	23.00	21.00	10.00
X	3	20.00	40.00	25.00	23.00	10.00
X	3	0.00	20.00	27.00	25.00	10.00

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	220.00	250.00	2.254	0.924	29000.	0.0000117
LE	200.00	220.00	3.016	0.924	29000.	0.0000117
LE	180.00	200.00	3.678	0.924	29000.	0.0000117
LE	160.00	180.00	4.407	0.924	29000.	0.0000117
LE	120.00	160.00	6.111	0.924	29000.	0.0000117
LE	80.00	120.00	7.952	0.924	29000.	0.0000117
LE	0.00	80.00	8.399	0.924	29000.	0.0000117
DI	240.00	250.00	0.484	0.626	29000.	0.0000117
DI	220.00	240.00	0.715	0.626	29000.	0.0000117
DI	180.00	220.00	0.484	0.626	29000.	0.0000117
DI	160.00	180.00	0.715	0.626	29000.	0.0000117
DI	120.00	160.00	0.902	0.626	29000.	0.0000117
DI	100.00	120.00	1.090	0.626	29000.	0.0000117
DI	60.00	100.00	1.688	0.626	29000.	0.0000117
DI	0.00	60.00	1.938	0.626	29000.	0.0000117
HO	245.00	250.00	0.484	0.626	29000.	0.0000117
HO	235.00	240.00	0.715	0.626	29000.	0.0000117
HO	215.00	220.00	0.484	0.626	29000.	0.0000117

FACTORED MEMBER RESISTANCES

BOTTOM ELEV ft	TOP ELEV ft	LEGS		DIAGONALS		HORIZONTALS		INT BRACING	
		COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip
245.0	250.0	75.23	109.12	7.16	7.16	7.16	7.16	0.00	0.00
240.0	245.0	75.23	109.12	7.16	7.16	0.00	0.00	0.00	0.00
235.0	240.0	75.23	109.12	10.74	10.74	10.72	10.72	0.00	0.00
220.0	235.0	75.23	109.12	10.74	10.74	0.00	0.00	0.00	0.00
215.0	220.0	111.82	146.47	7.16	7.16	7.16	7.16	0.00	0.00
200.0	215.0	111.82	146.47	7.16	7.16	0.00	0.00	0.00	0.00
180.0	200.0	143.18	178.48	7.13	7.13	0.00	0.00	0.00	0.00
160.0	180.0	161.47	213.88	6.51	6.51	0.00	0.00	0.00	0.00
140.0	160.0	241.28	296.33	9.45	9.45	0.00	0.00	0.00	0.00
120.0	140.0	241.28	296.33	7.32	7.32	0.00	0.00	0.00	0.00
100.0	120.0	260.96	327.10	8.84	8.84	0.00	0.00	0.00	0.00
80.0	100.0	260.96	385.58	15.88	15.88	0.00	0.00	0.00	0.00
60.0	80.0	336.31	407.40	13.59	13.59	0.00	0.00	0.00	0.00
40.0	60.0	336.31	407.40	17.02	17.02	0.00	0.00	0.00	0.00
20.0	40.0	336.31	407.40	18.13	18.13	0.00	0.00	0.00	0.00
0.0	20.0	336.31	407.40	16.06	16.06	0.00	0.00	0.00	0.00

* Only 5 condition(s) shown in full
 * Some wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A

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

MAST LOADING
=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	242.0	0.00	0.0	0.0	8.21	7.20	0.00	0.00
C	230.0	0.00	0.0	0.0	6.08	4.80	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	245.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	245.0	0.00	52.2	0.0	0.06	0.05	0.01	0.02
D	240.0	0.00	52.2	0.0	0.06	0.05	0.01	0.02
D	240.0	0.00	52.2	0.0	0.09	0.08	0.03	0.06
D	230.0	0.00	52.2	0.0	0.08	0.07	0.03	0.06
D	230.0	0.00	93.2	0.0	0.09	0.08	0.03	0.06
D	220.0	0.00	93.2	0.0	0.09	0.08	0.03	0.06
D	220.0	0.00	86.6	0.0	0.10	0.09	0.04	0.07
D	200.0	0.00	91.4	0.0	0.10	0.08	0.03	0.06
D	200.0	0.00	78.1	0.0	0.10	0.09	0.04	0.07
D	180.0	0.00	83.2	0.0	0.11	0.10	0.04	0.07
D	180.0	0.00	75.4	0.0	0.11	0.11	0.04	0.07
D	160.0	0.00	77.1	0.0	0.11	0.11	0.05	0.08
D	160.0	0.00	77.5	0.0	0.12	0.15	0.05	0.09
D	140.0	0.00	79.4	0.0	0.13	0.15	0.05	0.09
D	140.0	0.00	75.6	0.0	0.13	0.15	0.06	0.09
D	120.0	0.00	77.7	0.0	0.13	0.16	0.06	0.09
D	120.0	0.00	73.2	0.0	0.13	0.17	0.07	0.10
D	100.0	0.00	74.4	0.0	0.13	0.18	0.07	0.10
D	100.0	0.00	71.0	0.0	0.13	0.21	0.08	0.10
D	60.0	0.00	70.1	0.0	0.14	0.22	0.08	0.10
D	60.0	0.00	67.7	0.0	0.14	0.24	0.09	0.10
D	20.0	0.00	67.0	0.0	0.14	0.26	0.09	0.10
D	20.0	0.00	65.3	0.0	0.12	0.26	0.11	0.09
D	0.0	0.00	65.9	0.0	0.13	0.27	0.10	0.09

ANTENNA LOADING
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.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT	ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	170.0	0.0	7.3	0.0	0.30	0.00	0.16	0.00
STD+R	160.0	0.0	7.8	0.0	0.29	0.00	0.16	0.00
STD+R	150.0	0.0	8.4	0.0	0.29	0.00	0.16	0.00

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LOADING CONDITION M =====

105 mph wind with no ice. wind Azimuth: 0° (0.9 D + 1.0 wo)

MAST LOADING
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LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	242.0	0.00	0.0	0.0	8.21	5.40	0.00	0.00
C	230.0	0.00	0.0	0.0	6.08	3.60	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	245.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	245.0	0.00	52.2	0.0	0.06	0.04	0.01	0.02
D	240.0	0.00	52.2	0.0	0.06	0.04	0.01	0.02
D	240.0	0.00	52.2	0.0	0.09	0.06	0.02	0.06
D	230.0	0.00	52.2	0.0	0.08	0.05	0.02	0.06
D	230.0	0.00	93.2	0.0	0.09	0.06	0.02	0.06
D	220.0	0.00	93.2	0.0	0.09	0.06	0.02	0.06
D	220.0	0.00	86.6	0.0	0.10	0.06	0.03	0.07
D	200.0	0.00	91.4	0.0	0.10	0.06	0.02	0.06
D	200.0	0.00	78.1	0.0	0.10	0.07	0.03	0.07
D	180.0	0.00	83.2	0.0	0.11	0.07	0.03	0.07
D	180.0	0.00	75.4	0.0	0.11	0.08	0.03	0.07
D	160.0	0.00	77.1	0.0	0.11	0.09	0.03	0.08
D	160.0	0.00	77.5	0.0	0.12	0.11	0.04	0.09
D	140.0	0.00	79.4	0.0	0.13	0.11	0.04	0.09
D	140.0	0.00	75.6	0.0	0.13	0.11	0.05	0.09
D	120.0	0.00	77.7	0.0	0.13	0.12	0.04	0.09
D	120.0	0.00	73.2	0.0	0.13	0.13	0.05	0.10
D	100.0	0.00	74.4	0.0	0.13	0.13	0.05	0.10
D	100.0	0.00	71.0	0.0	0.13	0.16	0.06	0.10
D	60.0	0.00	70.1	0.0	0.14	0.17	0.06	0.10
D	60.0	0.00	67.7	0.0	0.14	0.18	0.07	0.10
D	20.0	0.00	67.0	0.0	0.14	0.19	0.07	0.10
D	20.0	0.00	65.3	0.0	0.12	0.20	0.08	0.09
D	0.0	0.00	65.9	0.0	0.13	0.20	0.08	0.09

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT			ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	170.0	0.0	7.3	0.0	0.30	0.00	0.12	0.00
STD+R	160.0	0.0	7.8	0.0	0.29	0.00	0.12	0.00
STD+R	150.0	0.0	8.4	0.0	0.29	0.00	0.12	0.00

LOADING CONDITION Y

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

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY... RADIUS ft	LOAD... AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	242.0	0.00	0.0	0.0	1.16	18.18	0.00	0.00
C	230.0	0.00	0.0	0.0	0.86	12.09	0.00	0.00
D	250.0	0.00	180.0	0.0	0.01	0.19	0.00	0.00
D	245.0	0.00	180.0	0.0	0.01	0.19	0.00	0.00
D	245.0	0.00	52.2	0.0	0.01	0.18	0.06	0.00
D	240.0	0.00	52.2	0.0	0.01	0.18	0.06	0.00
D	240.0	0.00	52.2	0.0	0.01	0.27	0.16	0.01
D	235.0	0.00	52.2	0.0	0.01	0.27	0.16	0.01
D	235.0	0.00	52.2	0.0	0.01	0.23	0.16	0.01
D	230.0	0.00	52.2	0.0	0.01	0.23	0.16	0.01
D	230.0	0.00	99.5	0.0	0.01	0.29	0.15	0.01
D	220.0	0.00	99.5	0.0	0.01	0.29	0.15	0.01
D	220.0	0.00	91.4	0.0	0.01	0.33	0.17	0.01
D	215.0	0.00	91.4	0.0	0.01	0.33	0.17	0.01
D	215.0	0.00	93.7	0.0	0.01	0.30	0.17	0.01
D	200.0	0.00	98.4	0.0	0.01	0.31	0.16	0.01
D	200.0	0.00	84.3	0.0	0.01	0.32	0.20	0.01
D	180.0	0.00	89.4	0.0	0.01	0.34	0.18	0.01
D	180.0	0.00	81.5	0.0	0.01	0.34	0.21	0.01
D	160.0	0.00	84.6	0.0	0.01	0.36	0.23	0.01
D	160.0	0.00	83.4	0.0	0.02	0.42	0.25	0.01
D	140.0	0.00	83.8	0.0	0.02	0.43	0.26	0.01
D	140.0	0.00	79.9	0.0	0.02	0.44	0.30	0.01
D	120.0	0.00	82.0	0.0	0.02	0.45	0.28	0.01
D	120.0	0.00	77.4	0.0	0.02	0.45	0.33	0.01
D	110.0	0.00	77.4	0.0	0.02	0.45	0.33	0.01
D	110.0	0.00	78.7	0.0	0.02	0.45	0.31	0.01
D	100.0	0.00	78.7	0.0	0.02	0.45	0.31	0.01
D	100.0	0.00	75.1	0.0	0.02	0.50	0.35	0.01
D	80.0	0.00	76.2	0.0	0.02	0.51	0.34	0.01
D	80.0	0.00	73.2	0.0	0.02	0.54	0.38	0.01
D	60.0	0.00	74.1	0.0	0.02	0.55	0.37	0.01
D	60.0	0.00	71.5	0.0	0.02	0.58	0.40	0.01
D	40.0	0.00	72.3	0.0	0.02	0.59	0.39	0.01
D	40.0	0.00	70.0	0.0	0.02	0.59	0.42	0.01
D	20.0	0.00	70.7	0.0	0.02	0.59	0.41	0.01
D	20.0	0.00	67.3	0.0	0.01	0.52	0.19	0.01
D	10.0	0.00	67.3	0.0	0.01	0.52	0.19	0.01
D	10.0	0.00	69.0	0.0	0.01	0.54	0.35	0.01
D	0.0	0.00	69.0	0.0	0.01	0.54	0.35	0.01

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT			ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	170.0	0.0	7.3	0.0	0.03	0.00	0.41	0.00
STD+R	160.0	0.0	7.8	0.0	0.03	0.00	0.41	0.00
STD+R	150.0	0.0	8.4	0.0	0.03	0.00	0.40	0.00

LOADING CONDITION k

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

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY... RADIUS ft	LOAD... AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	245.0	0.00	0.0	0.0	0.06	0.69	0.00	0.00
C	242.0	0.00	0.0	0.0	0.63	7.55	0.00	0.00
C	241.0	0.00	0.0	0.0	0.00	0.03	0.00	0.00

C	235.0	0.00	0.0	0.0	0.01	0.13	0.00	0.00
C	230.0	0.00	0.0	0.0	0.39	5.03	0.00	0.00
C	230.0	0.00	0.0	0.0	0.11	1.40	0.00	0.00
C	225.0	0.00	0.0	0.0	0.01	0.15	0.00	0.00
C	225.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	210.0	0.00	0.0	0.0	0.01	0.20	0.00	0.00
C	210.0	0.00	0.0	0.0	0.02	0.30	0.00	0.00
C	210.0	0.00	0.0	0.0	0.11	1.55	0.00	0.00
C	190.0	0.00	0.0	0.0	0.01	0.20	0.00	0.00
C	190.0	0.00	0.0	0.0	0.11	1.84	0.00	0.00
C	190.0	0.00	0.0	0.0	0.02	0.30	0.00	0.00
C	175.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	175.0	0.00	0.0	0.0	0.01	0.15	0.00	0.00
C	170.0	0.00	0.0	0.0	0.02	0.34	0.00	0.00
C	170.0	0.00	0.0	0.0	0.00	0.06	0.00	0.00
C	170.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	170.0	0.00	0.0	0.0	0.12	2.20	0.00	0.00
C	165.0	0.00	0.0	0.0	0.01	0.11	0.00	0.00
C	165.0	0.00	0.0	0.0	0.01	0.15	0.00	0.00
C	160.0	0.00	0.0	0.0	0.02	0.34	0.00	0.00
C	160.0	0.00	0.0	0.0	0.00	0.06	0.00	0.00
C	160.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	155.0	0.00	0.0	0.0	0.01	0.15	0.00	0.00
C	155.0	0.00	0.0	0.0	0.01	0.12	0.00	0.00
C	150.0	0.00	0.0	0.0	0.13	2.90	0.00	0.00
C	150.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	150.0	0.00	0.0	0.0	0.00	0.06	0.00	0.00
C	150.0	0.00	0.0	0.0	0.02	0.34	0.00	0.00
C	145.0	0.00	0.0	0.0	0.01	0.13	0.00	0.00
C	145.0	0.00	0.0	0.0	0.01	0.15	0.00	0.00
C	130.0	0.00	0.0	0.0	0.01	0.25	0.00	0.00
C	130.0	0.00	0.0	0.0	0.01	0.30	0.00	0.00
C	130.0	0.00	0.0	0.0	0.11	3.04	0.00	0.00
C	110.0	0.00	0.0	0.0	0.01	0.25	0.00	0.00
C	110.0	0.00	0.0	0.0	0.01	0.30	0.00	0.00
C	110.0	0.00	0.0	0.0	0.10	3.48	0.00	0.00
C	90.0	0.00	0.0	0.0	0.01	0.25	0.00	0.00
C	90.0	0.00	0.0	0.0	0.01	0.30	0.00	0.00
C	90.0	0.00	0.0	0.0	0.10	4.43	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.30	0.00	0.00
C	70.0	0.00	0.0	0.0	0.00	0.25	0.00	0.00
C	70.0	0.00	0.0	0.0	0.08	4.69	0.00	0.00
C	50.0	0.00	0.0	0.0	0.00	0.25	0.00	0.00
C	50.0	0.00	0.0	0.0	0.00	0.30	0.00	0.00
C	50.0	0.00	0.0	0.0	0.06	5.14	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.25	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.30	0.00	0.00
C	30.0	0.00	0.0	0.0	0.03	5.45	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.30	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	5.64	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.25	0.00	0.00
D	250.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00

ANTENNA LOADING

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.....ANTENNA.....	ATTACHMENT			ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	170.0	0.0	7.3	0.0	0.00	0.00	0.00	0.00
STD+R	160.0	0.0	7.8	0.0	0.00	0.00	0.00	0.00
STD+R	150.0	0.0	8.4	0.0	0.00	0.00	0.00	0.00

LOADING CONDITION w

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

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY...LOAD... RADIUS ft	AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	245.0	0.00	0.0	0.0	0.06	0.46	0.00	0.00
C	242.0	0.00	0.0	0.0	0.63	5.05	0.00	0.00
C	241.0	0.00	0.0	0.0	0.00	0.02	0.00	0.00
C	235.0	0.00	0.0	0.0	0.01	0.08	0.00	0.00
C	230.0	0.00	0.0	0.0	0.39	3.37	0.00	0.00
C	230.0	0.00	0.0	0.0	0.11	0.94	0.00	0.00
C	225.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	225.0	0.00	0.0	0.0	0.01	0.07	0.00	0.00
C	210.0	0.00	0.0	0.0	0.01	0.13	0.00	0.00
C	210.0	0.00	0.0	0.0	0.02	0.20	0.00	0.00
C	210.0	0.00	0.0	0.0	0.11	1.04	0.00	0.00
C	190.0	0.00	0.0	0.0	0.01	0.13	0.00	0.00
C	190.0	0.00	0.0	0.0	0.11	1.23	0.00	0.00
C	190.0	0.00	0.0	0.0	0.02	0.20	0.00	0.00
C	175.0	0.00	0.0	0.0	0.01	0.07	0.00	0.00

C	175.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	170.0	0.00	0.0	0.0	0.02	0.23	0.00	0.00
C	170.0	0.00	0.0	0.0	0.00	0.04	0.00	0.00
C	170.0	0.00	0.0	0.0	0.02	0.27	0.00	0.00
C	170.0	0.00	0.0	0.0	0.12	1.47	0.00	0.00
C	165.0	0.00	0.0	0.0	0.01	0.07	0.00	0.00
C	165.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	160.0	0.00	0.0	0.0	0.02	0.23	0.00	0.00
C	160.0	0.00	0.0	0.0	0.00	0.04	0.00	0.00
C	160.0	0.00	0.0	0.0	0.02	0.27	0.00	0.00
C	155.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	155.0	0.00	0.0	0.0	0.01	0.08	0.00	0.00
C	150.0	0.00	0.0	0.0	0.13	1.94	0.00	0.00
C	150.0	0.00	0.0	0.0	0.02	0.27	0.00	0.00
C	150.0	0.00	0.0	0.0	0.00	0.04	0.00	0.00
C	150.0	0.00	0.0	0.0	0.02	0.23	0.00	0.00
C	145.0	0.00	0.0	0.0	0.01	0.08	0.00	0.00
C	145.0	0.00	0.0	0.0	0.01	0.10	0.00	0.00
C	130.0	0.00	0.0	0.0	0.01	0.17	0.00	0.00
C	130.0	0.00	0.0	0.0	0.01	0.20	0.00	0.00
C	130.0	0.00	0.0	0.0	0.11	2.04	0.00	0.00
C	110.0	0.00	0.0	0.0	0.01	0.17	0.00	0.00
C	110.0	0.00	0.0	0.0	0.01	0.20	0.00	0.00
C	110.0	0.00	0.0	0.0	0.10	2.33	0.00	0.00
C	90.0	0.00	0.0	0.0	0.01	0.17	0.00	0.00
C	90.0	0.00	0.0	0.0	0.01	0.20	0.00	0.00
C	90.0	0.00	0.0	0.0	0.10	2.96	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.20	0.00	0.00
C	70.0	0.00	0.0	0.0	0.00	0.17	0.00	0.00
C	70.0	0.00	0.0	0.0	0.08	3.14	0.00	0.00
C	50.0	0.00	0.0	0.0	0.00	0.17	0.00	0.00
C	50.0	0.00	0.0	0.0	0.00	0.20	0.00	0.00
C	50.0	0.00	0.0	0.0	0.06	3.44	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.17	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.20	0.00	0.00
C	30.0	0.00	0.0	0.0	0.03	3.64	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.20	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	3.77	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.17	0.00	0.00
D	250.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00

ANTENNA LOADING

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.....ANTENNA.....		ATTACHMENT		ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	170.0	0.0	7.3	0.0	0.00	0.00	0.00	0.00
STD+R	160.0	0.0	7.8	0.0	0.00	0.00	0.00	0.00
STD+R	150.0	0.0	8.4	0.0	0.00	0.00	0.00	0.00

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

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ELEV ft	AZI deg	TYPE *BEAM DEFLECTIONS (deg).....			
			ROLL	YAW	PITCH	TOTAL
170.0	0.0	STD+R	-1.009 G	0.056 S	-0.962 J	0.963 J
160.0	0.0	STD+R	-0.900 G	0.049 S	-0.856 J	0.856 J
150.0	0.0	STD+R	-0.822 G	0.044 S	-0.781 J	0.782 J

MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0	-----		0.22 M	0.00 A
	0.11 S	0.40 G		
245.0	-----		0.03 G	0.00 A
	1.14 M	1.79 M		
240.0	-----		0.66 K	0.00 A
	7.80 M	4.15 T		
235.0	-----		0.30 A	0.00 A
	17.95 M	4.61 H		
230.0	-----		0.18 S	0.00 A
	30.96 M	7.50 T		
225.0	-----		0.35 A	0.00 A
	50.67 M	7.85 H		
220.0	-----		0.65 S	0.00 A
	65.08 M	5.05 M		
215.0	-----		0.32 A	0.00 A
	77.18 M	4.77 H		
210.0	-----		0.05 A	0.00 A
	86.35 M	4.33 N		
205.0	-----		0.23 A	0.00 A
	95.55 M	4.19 H		
200.0	-----		0.08 A	0.00 A
	103.18 M	3.95 N		
195.0	-----		0.15 A	0.00 A

190.0	110.69 M	3.87 H	0.12 A	0.00 A
	117.25 M	3.74 N		
185.0			0.12 A	0.00 A
	123.74 M	3.72 B		
180.0			0.12 E	0.00 A
	130.43 M	3.94 T		
173.3			0.12 A	0.00 A
	138.07 M	4.00 T		
166.7			0.12 E	0.00 A
	144.96 M	4.01 N		
160.0			0.10 A	0.00 A
	152.02 M	4.20 T		
153.3			0.07 E	0.00 A
	158.50 M	4.38 B		
146.7			0.08 A	0.00 A
	165.28 M	4.40 T		
140.0			0.06 E	0.00 A
	171.56 M	4.59 B		
133.3			0.11 A	0.00 A
	178.02 M	4.51 T		
126.7			0.05 E	0.00 A
	184.07 M	4.71 B		
120.0			0.10 A	0.00 A
	191.62 M	5.11 T		
110.0			0.09 E	0.00 A
	200.30 M	5.33 B		
100.0			0.08 A	0.00 A
	208.91 M	5.34 N		
90.0			0.08 E	0.00 A
	217.18 M	5.59 B		
80.0			0.07 A	0.00 A
	225.47 M	5.66 N		
70.0			0.07 E	0.00 A
	233.56 M	5.92 B		
60.0			0.06 A	0.00 A
	241.65 M	6.05 N		
50.0			0.06 A	0.00 A
	249.59 M	6.32 B		
40.0			0.06 A	0.00 A
	257.56 M	6.44 N		
30.0			0.06 A	0.00 A
	265.40 M	6.68 B		
20.0			0.01 S	0.00 A
	273.25 M	6.80 B		
10.0			0.05 A	0.00 A
	280.91 M	7.01 N		
0.0			0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0			-0.25 G	0.00 A
	-0.29 Y	-0.35 M		
245.0			-0.02 M	0.00 A
	-3.07 e	-1.88 G		
240.0			-0.40 Q	0.00 A
	-12.14 G	-4.46 H		
235.0			-0.23 S	0.00 A
	-23.38 G	-4.41 N		
230.0			-0.20 A	0.00 A
	-39.06 G	-7.68 B		
225.0			-0.27 S	0.00 A
	-59.58 G	-7.79 N		
220.0			-0.78 A	0.00 A
	-74.04 G	-5.37 G		
215.0			-0.26 S	0.00 A
	-87.09 G	-4.64 N		
210.0			-0.04 S	0.00 A
	-96.37 G	-4.46 G		
205.0			-0.19 S	0.00 A
	-106.27 G	-4.12 N		
200.0			-0.07 S	0.00 A
	-114.20 G	-4.03 H		
195.0			-0.13 S	0.00 A
	-122.32 G	-3.84 N		
190.0			-0.11 S	0.00 A
	-129.28 G	-3.80 H		
185.0			-0.10 S	0.00 A
	-136.36 G	-3.69 T		
180.0			-0.11 S	0.00 A
	-143.58 G	-4.02 G		
173.3			-0.10 S	0.00 A
	-152.14 G	-4.08 B		
166.7			-0.10 S	0.00 A
	-159.85 G	-4.08 B		
160.0			-0.08 S	0.00 A

153.3	-167.89 G	-4.39 B	-0.06 W	0.00 A
	-175.35 G	-4.31 B		
146.7	-183.05 G	-4.57 B	-0.07 S	0.00 A
	-190.20 G	-4.46 H		
140.0	-197.53 G	-4.67 B	-0.05 W	0.00 A
	-204.52 G	-4.60 H		
133.3	-213.24 G	-5.28 B	-0.10 S	0.00 A
	-223.50 G	-5.24 B		
126.7	-233.76 G	-5.48 B	-0.05 W	0.00 A
	-243.89 G	-5.53 G		
120.0	-254.05 G	-5.79 B	-0.06 S	0.00 A
	-264.10 G	-5.90 G		
110.0	-274.23 G	-6.15 B	-0.06 W	0.00 A
	-284.34 G	-6.31 G		
100.0	-294.50 G	-6.54 B	-0.05 W	0.00 A
	-304.60 G	-6.71 G		
90.0	-314.75 G	-6.88 B	-0.05 S	0.00 A
	-324.74 G	-7.07 G		
80.0			0.00 S	0.00 A
70.0			-0.05 W	0.00 A
60.0			0.00 S	0.00 A
50.0			-0.05 W	0.00 A
40.0			0.00 S	0.00 A
30.0			-0.05 W	0.00 A
20.0			0.00 S	0.00 A
10.0			-0.05 W	0.00 A
0.0			0.00 A	0.00 A

FORCE/RESISTANCE RATIO IN LEGS

MAST ELEV ft	-- LEG COMPRESSION --			---- LEG TENSION ----		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
250.00	0.29	75.23	0.00	0.11	109.12	0.00
245.00	3.07	75.23	0.04	1.14	109.12	0.01
240.00	12.14	75.23	0.16	7.80	109.12	0.07
235.00	23.38	75.23	0.31	17.95	109.12	0.16
230.00	39.06	75.23	0.52	30.96	109.12	0.28
225.00	59.58	75.23	0.79	50.67	109.12	0.46
220.00	74.04	111.82	0.66	65.08	146.47	0.44
215.00	87.09	111.82	0.78	77.18	146.47	0.53
210.00	96.37	111.82	0.86	86.35	146.47	0.59
205.00	106.27	111.82	0.95	95.55	146.47	0.65
200.00	114.20	143.18	0.80	103.18	178.48	0.58
195.00	122.32	143.18	0.85	110.69	178.48	0.62
190.00	129.28	143.18	0.90	117.25	178.48	0.66
185.00	136.36	143.18	0.95	123.74	178.48	0.69
180.00	143.58	161.47	0.89	130.43	213.88	0.61
173.33	152.14	161.47	0.94	138.07	213.88	0.65
166.67	159.85	161.47	0.99	144.96	213.88	0.68
160.00	167.89	241.28	0.70	152.02	296.33	0.51
153.33	175.35	241.28	0.73	158.50	296.33	0.53
146.67	183.05	241.28	0.76	165.28	296.33	0.56
140.00	190.20	241.28	0.79	171.56	296.33	0.58
133.33	197.53	241.28	0.82	178.02	296.33	0.60
126.67	204.52	241.28	0.85	184.07	296.33	0.62
120.00	213.24	260.96	0.82	191.62	327.10	0.59
110.00						

100.00	223.50	260.96	0.86	200.30	327.10	0.61
	233.76	260.96	0.90	208.91	385.58	0.54
90.00	243.89	260.96	0.93	217.18	385.58	0.56
80.00	254.05	336.31	0.76	225.47	407.40	0.55
70.00	264.10	336.31	0.79	233.56	407.40	0.57
60.00	274.23	336.31	0.82	241.65	407.40	0.59
50.00	284.34	336.31	0.85	249.59	407.40	0.61
40.00	294.50	336.31	0.88	257.56	407.40	0.63
30.00	304.60	336.31	0.91	265.40	407.40	0.65
20.00	314.75	336.31	0.94	273.25	407.40	0.67
10.00	324.74	336.31	0.97	280.91	407.40	0.69
0.00						

FORCE/RESISTANCE RATIO IN DIAGONALS

MAST ELEV ft	- DIAG COMPRESSION -			--- DIAG TENSION ---		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
250.00	0.35	7.16	0.05	0.40	7.16	0.06
245.00	1.88	7.16	0.26	1.79	7.16	0.25
240.00	4.46	10.74	0.42	4.15	10.74	0.39
235.00	4.41	10.74	0.41	4.61	10.74	0.43
230.00	7.68	10.74	0.71	7.50	10.74	0.70
225.00	7.79	10.74	0.72	7.85	10.74	0.73
220.00	5.37	7.16	0.75	5.05	7.16	0.70
215.00	4.64	7.16	0.65	4.77	7.16	0.67
210.00	4.46	7.16	0.62	4.33	7.16	0.60
205.00	4.12	7.16	0.58	4.19	7.16	0.58
200.00	4.03	7.13	0.56	3.95	7.13	0.55
195.00	3.84	7.13	0.54	3.87	7.13	0.54
190.00	3.80	7.13	0.53	3.74	7.13	0.52
185.00	3.69	7.13	0.52	3.72	7.13	0.52
180.00	4.02	6.51	0.62	3.94	6.51	0.60
173.33	4.08	6.51	0.63	4.00	6.51	0.62
166.67	4.08	6.51	0.63	4.01	6.51	0.62
160.00	4.39	9.45	0.46	4.20	9.45	0.44
153.33	4.31	9.45	0.46	4.38	9.45	0.46
146.67	4.57	9.45	0.48	4.40	9.45	0.47
140.00	4.46	7.32	0.61	4.59	7.32	0.63
133.33	4.67	7.32	0.64	4.51	7.32	0.62
126.67	4.60	7.32	0.63	4.71	7.32	0.64
120.00	5.28	8.84	0.60	5.11	8.84	0.58
110.00	5.24	8.84	0.59	5.33	8.84	0.60
100.00	5.48	15.88	0.35	5.34	15.88	0.34
90.00	5.53	15.88	0.35	5.59	15.88	0.35
80.00	5.79	13.59	0.43	5.66	13.59	0.42
70.00	5.90	13.59	0.43	5.92	13.59	0.44
60.00	6.15	17.02	0.36	6.05	17.02	0.36
50.00	6.31	17.02	0.37	6.32	17.02	0.37
40.00	6.54	18.13	0.36	6.44	18.13	0.36

30.00	6.71	18.13	0.37	6.68	18.13	0.37
20.00	6.88	16.06	0.43	6.80	16.06	0.42
10.00	7.07	16.06	0.44	7.01	16.06	0.44
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

NORTH	EAST	DOWN	UPLIFT	TOTAL SHEAR
29.69 G	25.70 K	329.30 G	-284.34 M	29.69 G

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
48.1 G	44.1 J	48.1 G	139.9 g	7280.8 G	6809.2 J	7280.8 G	-20.8 S

Latticed Tower Analysis (Unguyed) (c)2017 Guymast Inc. 416-736-7453
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Sabre Towers and Poles on: 22 mar 2022 at: 8:07:54

 ***** Service Load Condition *****

* Only 1 condition(s) shown in full
 * Some wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A

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

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT		LOAD AZIFORCES.....	MOMENTS.....	
		RADIUS ft	AZI		HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	242.0	0.00	0.0	0.0	2.68	6.00	0.00	0.00
C	230.0	0.00	0.0	0.0	1.98	4.00	0.00	0.00
D	250.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00
D	240.0	0.00	52.2	0.0	0.02	0.04	0.01	0.01
D	240.0	0.00	52.2	0.0	0.03	0.06	0.02	0.02
D	230.0	0.00	52.2	0.0	0.03	0.06	0.02	0.02
D	230.0	0.00	93.0	0.0	0.03	0.06	0.03	0.02
D	215.0	0.00	85.5	0.0	0.03	0.07	0.03	0.02
D	215.0	0.00	88.2	0.0	0.03	0.07	0.03	0.02
D	200.0	0.00	91.4	0.0	0.03	0.07	0.03	0.02
D	200.0	0.00	78.1	0.0	0.03	0.08	0.03	0.02
D	180.0	0.00	83.2	0.0	0.04	0.08	0.03	0.02
D	180.0	0.00	75.4	0.0	0.04	0.09	0.04	0.02
D	160.0	0.00	77.1	0.0	0.04	0.09	0.04	0.03
D	160.0	0.00	77.5	0.0	0.04	0.12	0.04	0.03
D	140.0	0.00	79.4	0.0	0.04	0.13	0.05	0.03
D	140.0	0.00	75.6	0.0	0.04	0.13	0.05	0.03
D	120.0	0.00	77.7	0.0	0.04	0.13	0.05	0.03
D	120.0	0.00	73.2	0.0	0.04	0.15	0.06	0.03
D	100.0	0.00	74.4	0.0	0.04	0.15	0.05	0.03
D	100.0	0.00	71.0	0.0	0.05	0.17	0.06	0.03
D	60.0	0.00	70.1	0.0	0.05	0.19	0.07	0.03
D	60.0	0.00	68.2	0.0	0.05	0.20	0.07	0.03
D	10.0	0.00	65.8	0.0	0.04	0.22	0.09	0.03
D	10.0	0.00	65.9	0.0	0.04	0.22	0.09	0.03
D	0.0	0.00	65.9	0.0	0.04	0.22	0.09	0.03

ANTENNA LOADING

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT RAD ft	AZIANTENNA FORCES..... AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	170.0	0.0	7.3	0.0	0.10	0.00	0.13	0.00
STD+R	160.0	0.0	7.8	0.0	0.10	0.00	0.13	0.00
STD+R	150.0	0.0	8.4	0.0	0.09	0.00	0.13	0.00

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MAXIMUM MAST DISPLACEMENTS:

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ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)---		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
250.0	1.152 G	-1.099 D	0.014 G	0.619 G	-0.597 D	-0.038 G
245.0	1.098 G	-1.047 D	0.014 G	0.619 G	-0.597 D	-0.038 G
240.0	1.044 G	-0.995 D	0.013 G	0.618 G	-0.596 D	-0.038 G
235.0	0.989 G	-0.942 D	0.013 G	0.614 G	-0.591 D	-0.038 G
230.0	0.936 G	-0.891 D	0.012 G	0.603 G	-0.581 D	-0.037 G
225.0	0.882 G	-0.839 D	0.012 G	0.586 G	-0.564 D	-0.036 G
220.0	0.832 G	-0.790 D	0.011 G	0.559 G	-0.538 D	-0.035 G
215.0	0.782 G	-0.743 D	0.011 G	0.535 G	-0.514 D	-0.033 G
210.0	0.736 G	-0.699 D	0.011 G	0.510 G	-0.490 D	-0.031 G
205.0	0.692 G	0.656 J	0.010 G	0.484 G	-0.464 D	-0.029 G
200.0	0.650 G	0.616 J	0.010 G	0.457 G	-0.438 D	-0.028 G
195.0	0.610 G	0.578 J	0.009 G	0.435 G	-0.416 D	-0.026 G
190.0	0.573 G	-0.542 D	0.009 G	0.413 G	-0.395 D	-0.024 G
185.0	0.537 G	-0.508 D	0.009 G	0.391 G	-0.373 D	-0.022 G
180.0	0.503 G	0.476 J	0.008 G	0.369 G	-0.352 D	-0.020 G
173.3	0.461 G	0.436 J	0.008 G	0.344 G	-0.328 D	-0.019 G
166.7	0.422 G	0.398 J	0.008 G	0.320 G	-0.305 D	-0.017 G
160.0	0.385 G	0.363 J	0.007 G	0.296 G	-0.282 D	-0.016 G
153.3	0.351 G	0.331 J	0.007 G	0.279 G	0.265 J	-0.015 G
146.7	0.319 G	0.301 J	0.007 G	0.263 G	0.249 J	-0.014 G
140.0	0.289 G	0.272 J	0.006 G	0.246 G	0.233 J	-0.013 G
133.3	0.261 G	0.245 J	0.006 G	0.230 G	0.218 J	-0.011 G
126.7	0.234 G	0.220 J	0.006 G	0.214 G	0.202 J	-0.010 G
120.0	0.210 G	0.197 J	0.006 G	0.198 G	0.187 J	-0.009 G
110.0	0.176 G	0.165 J	0.005 G	0.180 G	0.170 J	-0.008 G
100.0	0.145 G	0.136 J	0.005 G	0.162 G	0.153 J	-0.007 G
90.0	0.118 G	0.111 J	0.004 G	0.144 G	0.136 J	-0.006 G
80.0	0.094 G	0.088 J	0.004 K	0.127 G	0.119 J	-0.005 G
70.0	0.073 G	0.068 J	0.004 G	0.110 G	0.104 J	-0.005 G
60.0	0.054 G	0.051 J	0.003 K	0.094 G	0.088 J	-0.004 G
50.0	0.039 G	0.036 J	0.003 G	0.078 G	0.073 J	-0.003 G
40.0	0.026 G	0.024 J	0.002 K	0.062 G	0.058 J	-0.003 G
30.0	0.016 G	0.014 J	0.002 G	0.047 G	0.044 J	-0.002 G
20.0	0.008 G	0.007 J	0.001 L	0.031 G	0.029 J	-0.001 G
10.0	0.002 G	0.002 J	0.001 F	0.015 G	0.014 J	-0.001 G
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

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MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

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ELEV ft	AZI deg	TYPE *BEAM DEFLECTIONS (deg).....			
			ROLL	YAW	PITCH	TOTAL
170.0	0.0	STD+R	-0.332 G	0.018 G	0.316 D	0.317 D
160.0	0.0	STD+R	-0.296 G	0.016 G	0.282 D	0.282 D
150.0	0.0	STD+R	-0.271 G	0.014 G	-0.257 J	0.257 J

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MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0	-----	-----	0.06 A	0.00 A
	0.00 A	0.15 G		
245.0	-----	-----	0.01 G	0.00 A
	0.00 A	0.57 A		
240.0	-----	-----	0.29 K	0.00 A
	1.16 A	1.26 H		
235.0	-----	-----	0.12 A	0.00 A
	4.19 A	1.57 H		
230.0	-----	-----	0.05 G	0.00 A
	7.62 A	2.40 H		
225.0	-----	-----	0.14 A	0.00 A
	13.89 A	2.59 H		
220.0	-----	-----	0.17 G	0.00 A
	18.67 A	1.57 A		
215.0	-----	-----	0.12 A	0.00 A
	22.39 A	1.60 H		
210.0	-----	-----	0.02 A	0.00 A
	25.42 A	1.37 B		
205.0	-----	-----	0.09 A	0.00 A
	28.27 A	1.39 H		
200.0	-----	-----	0.03 A	0.00 A
	30.74 A	1.27 H		
195.0	-----	-----	0.06 A	0.00 A
	33.07 A	1.28 H		

190.0	-----		0.04 A	0.00 A
	35.15 A	1.21 B		
185.0	-----		0.05 A	0.00 A
	37.16 A	1.22 B		
180.0	-----		0.04 E	0.00 A
	39.27 A	1.27 H		
173.3	-----		0.04 A	0.00 A
	41.57 A	1.31 H		
166.7	-----		0.04 E	0.00 A
	43.65 A	1.31 B		
160.0	-----		0.04 A	0.00 A
	45.73 A	1.36 H		
153.3	-----		0.03 E	0.00 A
	47.65 E	1.45 B		
146.7	-----		0.03 A	0.00 A
	49.65 A	1.44 H		
140.0	-----		0.02 E	0.00 A
	51.54 A	1.52 B		
133.3	-----		0.04 A	0.00 A
	53.49 A	1.48 H		
126.7	-----		0.02 E	0.00 A
	55.30 A	1.56 B		
120.0	-----		0.04 A	0.00 A
	57.56 A	1.69 B		
110.0	-----		0.03 E	0.00 A
	60.11 A	1.77 B		
100.0	-----		0.03 A	0.00 A
	62.62 A	1.77 B		
90.0	-----		0.03 E	0.00 A
	64.97 A	1.86 B		
80.0	-----		0.03 A	0.00 A
	67.34 A	1.89 B		
70.0	-----		0.03 E	0.00 A
	69.64 A	1.99 B		
60.0	-----		0.02 A	0.00 A
	71.92 A	2.04 B		
50.0	-----		0.02 E	0.00 A
	74.15 A	2.14 B		
40.0	-----		0.02 A	0.00 A
	76.39 A	2.19 B		
30.0	-----		0.02 E	0.00 A
	78.58 A	2.27 B		
20.0	-----		0.00 A	0.00 A
	80.76 A	2.32 B		
10.0	-----		0.02 A	0.00 A
	82.89 A	2.39 B		
0.0	-----		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
250.0	-----		-0.09 G	0.00 A
	-0.13 I	-0.10 A		
245.0	-----		0.00 A	0.00 A
	-1.52 G	-0.64 G		
240.0	-----		-0.05 E	0.00 A
	-5.19 G	-1.55 B		
235.0	-----		-0.05 G	0.00 A
	-9.14 G	-1.38 H		
230.0	-----		-0.07 A	0.00 A
	-15.00 G	-2.56 H		
225.0	-----		-0.06 G	0.00 A
	-21.88 G	-2.53 H		
220.0	-----		-0.29 A	0.00 A
	-26.58 G	-1.83 G		
215.0	-----		-0.06 G	0.00 A
	-31.07 G	-1.48 H		
210.0	-----		-0.01 G	0.00 A
	-34.08 G	-1.50 G		
205.0	-----		-0.05 G	0.00 A
	-37.45 G	-1.33 B		
200.0	-----		-0.02 G	0.00 A
	-40.08 G	-1.34 H		
195.0	-----		-0.03 G	0.00 A
	-42.85 G	-1.25 B		
190.0	-----		-0.03 G	0.00 A
	-45.18 G	-1.26 H		
185.0	-----		-0.03 G	0.00 A
	-47.60 G	-1.20 H		
180.0	-----		-0.03 G	0.00 A
	-50.04 G	-1.34 G		
173.3	-----		-0.03 K	0.00 A
	-53.03 G	-1.35 B		
166.7	-----		-0.03 G	0.00 A
	-55.71 G	-1.35 B		
160.0	-----		-0.02 K	0.00 A
	-58.57 G	-1.47 B		

153.3	-----			-0.02 G	0.00 A
	-61.23 G	-1.43 B			
146.7	-----			-0.02 G	0.00 A
	-63.96 G	-1.52 B			
140.0	-----			-0.01 K	0.00 A
	-66.49 G	-1.48 H			
133.3	-----			-0.03 G	0.00 A
	-69.08 G	-1.56 B			
126.7	-----			-0.01 K	0.00 A
	-71.57 G	-1.53 B			
120.0	-----			-0.02 G	0.00 A
	-74.69 G	-1.77 B			
110.0	-----			-0.02 G	0.00 A
	-78.40 G	-1.75 B			
100.0	-----			-0.02 G	0.00 A
	-82.13 G	-1.84 B			
90.0	-----			-0.02 G	0.00 A
	-85.87 G	-1.86 B			
80.0	-----			-0.02 G	0.00 A
	-89.62 G	-1.95 B			
70.0	-----			-0.02 G	0.00 A
	-93.36 G	-1.99 B			
60.0	-----			-0.01 G	0.00 A
	-97.16 G	-2.09 B			
50.0	-----			-0.01 G	0.00 A
	-100.99 G	-2.15 B			
40.0	-----			-0.01 G	0.00 A
	-104.84 G	-2.24 B			
30.0	-----			-0.01 G	0.00 A
	-108.70 G	-2.28 B			
20.0	-----			0.00 G	0.00 A
	-112.57 G	-2.36 B			
10.0	-----			-0.01 G	0.00 A
	-116.40 G	-2.42 G			
0.0	-----			0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

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-----LOAD-----COMPONENTS-----				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
10.45 G	9.05 K	118.17 G	-83.82 A	10.45 G

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

=====

-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@				@	
		0.0				0.0	
16.1 G	14.8 J	16.1 G	44.8 G	2413.9 G	2259.4 J	2413.9 G	-6.8 G

=====

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

Parameters		Description	h_i (ft.)	w_i (kips)	Vertical Distribution of Seismic Forces				1.2 D + 1.0 E_v	0.9 D - 1.0 E_v
					W₂ (kips)	w_ih_i^{ke}	F_{sz} or E_h	E_v (kips)		
						(kips)		(kips)	(kips)	
		Structure - Section 1	245.00	0.5490	0.5490	645.1352	0.0583	0.0318	0.6906	0.4623
Risk Category	II	Antenna Load	242.00	6.0000	6.0000	6,939.9125	0.6273	0.3480	7.5480	5.0520
R	3.000	Ladder/Line	241.00	0.0199	0.0448	22.8952	0.0021	0.0012	0.0251	0.0167
S _S	0.275	Ladder/Line	235.00	0.0994	0.0994	110.7155	0.0100	0.0058	0.1251	0.0837
S _I	0.098	Antenna Load	230.00	4.0000	0.0000	4,333.9137	0.3917	0.2320	5.0320	3.3680
Site Class	D (default)	Structure - Section 2	230.00	1.1150	0.1394	1,208.0784	0.1092	0.0647	1.4027	0.9388
T _L (sec)	12.000	Ladder/Line	225.00	0.0796	0.0000	83.8432	0.0076	0.0046	0.1001	0.0670
F _a	1.580	Ladder/Line	225.00	0.1192	0.0000	125.5541	0.0113	0.0069	0.1499	0.1004
F _v	2.400	Ladder/Line	210.00	0.1592	0.0000	153.4599	0.0139	0.0092	0.2002	0.1341
S _{MS}	0.435	Ladder/Line	210.00	0.2384	0.0000	229.8042	0.0208	0.0138	0.2999	0.2008
S _{M1}	0.235	Structure - Section 3	210.00	1.2300	0.0000	1,185.6511	0.1072	0.0713	1.5473	1.0357
S _{DS}	0.290	Ladder/Line	190.00	0.1592	0.0000	134.9402	0.0122	0.0092	0.2002	0.1341
S _{D1}	0.157	Ladder/Line	190.00	0.2384	0.0000	202.0713	0.0183	0.0138	0.2999	0.2008
T _s	0.541	Structure - Section 4	190.00	1.4600	0.0000	1,237.5172	0.1119	0.0847	1.8367	1.2293
I _e	1.000	Ladder/Line	175.00	0.0796	0.0000	60.7040	0.0055	0.0046	0.1001	0.0670
Ω	1.500	Ladder/Line	175.00	0.1192	0.0000	90.9034	0.0082	0.0069	0.1499	0.1004
C _S	0.049	Antenna Load	170.00	0.2700	0.0000	198.3767	0.0179	0.0157	0.3397	0.2273
h (ft)	250.00	Mount Load	170.00	0.0500	0.0000	36.7364	0.0033	0.0029	0.0629	0.0421
K _I	4.540	Mount/Antenna Load	170.00	0.3200	0.0000	235.1131	0.0213	0.0186	0.4026	0.2694
W _a (ft)	14.68	Structure - Section 5	170.00	1.7490	0.0000	1,285.0401	0.1162	0.1014	2.2002	1.4727
W _o (ft)	27.00	Ladder/Line	165.00	0.0862	0.0000	60.9501	0.0055	0.0050	0.1084	0.0726
W (kips)	50.670	Ladder/Line	165.00	0.1192	0.0000	84.2836	0.0076	0.0069	0.1499	0.1004
W ₁ (kips)	22.579	Antenna Load	160.00	0.2700	0.0000	183.5092	0.0166	0.0157	0.3397	0.2273
W ₂ (kips)	6.833	Mount Load	160.00	0.0500	0.0000	33.9832	0.0031	0.0029	0.0629	0.0421
f ₁ (Hertz)	0.934	Mount/Antenna Load	160.00	0.3200	0.0000	217.4924	0.0197	0.0186	0.4026	0.2694
T (sec)	1.070	Ladder/Line	155.00	0.1192	0.0000	77.7772	0.0070	0.0069	0.1499	0.1004
k _e	1.2850	Ladder/Line	155.00	0.0928	0.0000	60.5514	0.0055	0.0054	0.1168	0.0781
V _s (kips)	2.483	Antenna Load	150.00	0.2700	0.0000	168.9044	0.0153	0.0157	0.3397	0.2273
Seismic Design Category	C	Mount Load	150.00	0.0500	0.0000	31.2786	0.0028	0.0029	0.0629	0.0421
		Mount/Antenna Load	150.00	0.3200	0.0000	200.1830	0.0181	0.0186	0.4026	0.2694
		Structure - Section 6	150.00	2.3090	0.0000	1,444.4456	0.1306	0.1339	2.9047	1.9442
		Ladder/Line	145.00	0.0994	0.0000	59.5311	0.0054	0.0058	0.1251	0.0837
		Ladder/Line	145.00	0.1192	0.0000	71.3895	0.0065	0.0069	0.1499	0.1004
		Ladder/Line	130.00	0.1988	0.0000	103.4746	0.0094	0.0115	0.2501	0.1674
		Ladder/Line	130.00	0.2384	0.0000	124.0862	0.0112	0.0138	0.2999	0.2008

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

Description	h _i (ft.)	w _i (kips)	W ₂ (kips)	Vertical Distribution of Seismic Forces				
				w _i h _i ^{ke}	F ₂ or E _h (kips)	E _v (kips)	1.2 D + 1.0 E _v (kips)	0.9 D - 1.0 E _v (kips)
Structure - Section 7	130.00	2.4170	0.0000	1,258.0383	0.1137	0.1402	3.0406	2.0351
Ladder/Line	110.00	0.1988	0.0000	83.4845	0.0075	0.0115	0.2501	0.1674
Ladder/Line	110.00	0.2384	0.0000	100.1142	0.0090	0.0138	0.2999	0.2008
Structure - Section 8	110.00	2.7630	0.0000	1,160.3005	0.1049	0.1603	3.4759	2.3264
Ladder/Line	90.00	0.1988	0.0000	64.5087	0.0058	0.0115	0.2501	0.1674
Ladder/Line	90.00	0.2384	0.0000	77.3585	0.0070	0.0138	0.2999	0.2008
Structure - Section 9	90.00	3.5190	0.0000	1,141.8811	0.1032	0.2041	4.4269	2.9630
Ladder/Line	70.00	0.2384	0.0000	56.0089	0.0051	0.0138	0.2999	0.2008
Ladder/Line	70.00	0.1988	0.0000	46.7054	0.0042	0.0115	0.2501	0.1674
Structure - Section 10	70.00	3.7300	0.0000	876.3141	0.0792	0.2163	4.6923	3.1407
Ladder/Line	50.00	0.1988	0.0000	30.3105	0.0027	0.0115	0.2501	0.1674
Ladder/Line	50.00	0.2384	0.0000	36.3482	0.0033	0.0138	0.2999	0.2008
Structure - Section 11	50.00	4.0890	0.0000	623.4384	0.0564	0.2372	5.1440	3.4429
Ladder/Line	30.00	0.1988	0.0000	15.7223	0.0014	0.0115	0.2501	0.1674
Ladder/Line	30.00	0.2384	0.0000	18.8542	0.0017	0.0138	0.2999	0.2008
Structure - Section 12	30.00	4.3290	0.0000	342.3642	0.0309	0.2511	5.4459	3.6450
Ladder/Line	10.00	0.2384	0.0000	4.5952	0.0004	0.0138	0.2999	0.2008
Ladder/Line	10.00	0.1988	0.0000	3.8319	0.0003	0.0115	0.2501	0.1674
Structure - Section 13	10.00	4.4820	0.0000	86.3917	0.0078	0.2600	5.6384	3.7738
Σ		50.67	6.8326	27,468.78	2.48	2.94	63.74	42.66

Leg Connection Details												
Bottom Elevation (ft)	Top Elevation (ft)	Pipe Dimensions	Top Splice					Bottom Splice/Base				
			Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)	Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)
240	250	2.875 OD X .276						6	0.75	6.50	0.75	8.50
220	240	2.875 OD X .276	6	0.75	6.50	1.00	8.50	6	0.75	6.50	1.00	8.50
200	220	3.500 OD X .300	6	0.75	6.50	1.00	8.50	6	1.00	9.00	1.25	11.50
180	200	4.000 OD X .318	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
160	180	4.500 OD X .337	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
140	160	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
120	140	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
100	120	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
80	100	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.25	12.50	1.75	15.75
60	80	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
40	60	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
20	40	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
0	20	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.75	1.50	16.00

Diagonal Bracing Connection Details								
Bottom Elevation (ft)	Top Elevation (ft)	Angle Shape	Bolt Qty.	Bolt Dia. (in)	Bolt End Distance (in)	Bolt Spacing (in)	Gage Distance From Heel (in)	Gusset Plate Thickness (in)
240	250	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
220	240	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
200	220	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
180	200	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
160	180	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
140	160	L 2 1/2 X 2 1/2 X 3/16	1	0.625	1.500		1.375	0.375
120	140	L 2 1/2 X 2 1/2 X 3/16	1	0.750	1.500		1.375	0.375
100	120	L 3 X 3 X 3/16	1	0.750	1.625		1.750	0.375
80	100	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
60	80	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
40	60	L 4 X 4 X 1/4	1	0.750	1.625		2.000	0.375
20	40	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500
0	20	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

250' S3TL Series HD1 TILLMAN INFRASTRUCTURE, LLC TI-OPP-18773, KY (22-5290-TJH) 2022-03-23 DO

Overall Loads:			
Factored Moment (ft-kips)	8008.87		
Factored Axial (kips)	153.95		
Factored Shear (kips)	52.92		
Individual Leg Loads:			
Factored Uplift (kips)	312.40	Tower eccentric from mat (ft)=	2.25
Factored Download (kips)	361.90		
Factored Shear (kips)	33.00		
Width of Tower (ft)	27	Allowable Bearing Pressure (ksf)	13.50
Ultimate Bearing Pressure	27.00	Safety Factor	2.00
Bearing Φ_s	0.75		
Bearing Design Strength (ksf)	20.25	Max. Factored Net Bearing Pressure (ksf)	3.94
Water Table Below Grade (ft)	999		
Width of Mat (ft)	33	Minimum Mat Width (ft)	32.83
Thickness of Mat (ft)	1.5		
Depth to Bottom of Slab (ft)	4.5		
Bolt Circle Diameter (in)	12.75		
Effective Anchor Bolt Embedment	43.125		
Diameter of Pier (ft)	3.5	Minimum Pier Diameter (ft)	2.40
Ht. of Pier Above Ground (ft)	0.5	Equivalent Square b (ft)	3.10
Ht. of Pier Below Ground (ft)	3		
Quantity of Bars in Mat	54		
Bar Diameter in Mat (in)	1.128		
Area of Bars in Mat (in ²)	53.96		
Spacing of Bars in Mat (in)	7.34	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	16		
Bar Diameter in Pier (in)	0.875		
Tie Bar Diameter in Pier (in)	0.5		
Spacing of Ties (in)	4		
Area of Bars in Pier (in ²)	9.62	Minimum Pier A_s (in ²)	6.93
Spacing of Bars in Pier (in)	6.66	Recommended Spacing (in)	5 to 12
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Soil (kcf)	0.11		
Unit Wt. of Concrete (kcf)	0.15		
Volume of Concrete (yd ³)	64.24		

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES (CONTINUED)

Two-Way Shear:

Average d (in)	13.872		
ϕv_c (ksi)	0.201	v_u (ksi)	0.125
$\phi v_c = \phi(2 + 4/\beta_c)f_c^{1/2}$	0.302		
$\phi v_c = \phi(\alpha_s d/b_o + 2)f_c^{1/2}$	0.237		
$\phi v_c = \phi 4f_c^{1/2}$	0.201		
Shear perimeter, b_o (in)	204.37		
β_c	1		

Stability:

Overturning Design Strength (ft-k)	9607.6	Factored Overturning Moment (ft-k)	8273.5
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One-Way Shear:

ϕV_c (kips)	552.8	V_u (kips)	438.0
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Pier Design:

Design Tensile Strength (kips)	519.5	T_u (kips)	312.4
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Shear:

ϕ	0.75		
V_c (kips)	103.9		
V_s (kips)	197.9	$V_{s,max}$ (kips)	757.3
ϕV_n (kips)	226.4	V_u (kips)	33.0
Maximum Spacing (in)	11.15	(Only if Shear Ties are Required)	
Actual Hook Development (in)	12.74	Req'd Hook Development l_{dh} (in) - Tension	10.96
		Req'd Hook Development l_{dc} (in) - Compression	11.81

Anchor Bolt Pull-Out:

$N_{ua} / \phi N_n$	0.72	$V_{ua} / \phi V_n$	0.15
Pier Rebar Development Length (in)	32.64	Required Length of Development (in)	23.48

Flexure in Slab:

ϕM_n (ft-kips)	3109.1	M_u (ft-kips)	3100.2
a (in)	2.14		
Steel Ratio	0.00982		
β_1	0.825		
Maximum Steel Ratio (ρ_s)	0.0197		
Minimum Steel Ratio	0.0018		

Condition	1 is OK, 0 Fails
Minimum Mat Width	1
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Two-Way Shear	1
Overturning	1
Anchor Bolt Pull-Out	1
Flexure	1
Steel Ratio	1
Interaction Diagram	1
One-Way Shear	1
Hook Development	1
Minimum Mat Depth	1
Anchor Bolt Punching Shear	1

EXHIBIT D
COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

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

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
▼ Active ▼				
<input type="button" value="Search"/>				

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC	Cellular	B	Bloomfield Hill	MI
<input type="button" value="View"/>	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
<input type="button" value="View"/>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
<input type="button" value="View"/>	4108650	AmeriMex Communications Corp.	Cellular	A	Safety Harbor	FL
<input type="button" value="View"/>	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
<input type="button" value="View"/>	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
<input type="button" value="View"/>	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
<input type="button" value="View"/>	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
<input type="button" value="View"/>	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
<input type="button" value="View"/>	4107600	Boomerang Wireless, LLC	Cellular	C	Hiawatha	IA
<input type="button" value="View"/>	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
<input type="button" value="View"/>	4100700	Cellco Partnership dba Verizon	Cellular	A	Basking	NJ

		Wireless			Ridge	
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4111150	Comcast OTR1, LLC	Cellular	B	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4112700	Cox Wireless, LLC	Cellular	C	Atlanta	GA
View	4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	A	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	A	Elizabethtown	KY
View	4111650	DataBytes, Inc.	Cellular	D	Rogers	AR
View	4112000	DISH Wireless L.L.C.	Cellular	A	Englewood	CO
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	D	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4112400	Excess Telecom Inc.	Cellular	C	Beverly Hills	CA
View	4105900	Flash Wireless, LLC	Cellular	D	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	4112300	Gen Mobile Inc.	Cellular	C	Redondo Beach	CA
View	4109350	Global Connection Inc. of America	Cellular	D	Newport	KY
View	4102200	Globalstar USA, LLC	Cellular	C	Covington	LA
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4103100	i-Wireless, LLC	Cellular	B	Newport	KY
View	4112550	IDT Domestic Telecom, Inc.	Cellular	C	Newark	NJ
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
View	4112650	Insight Mobile, Inc.	Cellular	C	Los Angeles	CA
View	4111950	J Rhodes Enterprises LLC	Cellular	D	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
View	10681	Kentucky RSA #4 Cellular	Cellular	A	Elizabethtown	KY

		General				
View	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	A	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	C	Westlake Village	CA
View	4112450	Matrix Telecom, LLC dba Excel Telecommunications	Cellular	C	Irving	TX
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	D	Costa Mesa	CA
View	4111850	Mobi, Inc.	Cellular	D	Honolulu	HI
View	4109400	NetZero Wireless, Inc. dba magicJack Wireless	Cellular	D	West Palm Beach	FL
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
View	4112350	NewPhone Wireless, L.L.C.	Cellular	D	Houston	TX
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4110700	Norcell, LLC	Cellular	D	Buford	GA
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	A	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	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4107700	Puretalk Holdings, Inc.	Cellular	A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	C	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular	A	Raleigh	NC
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	B	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Fremont	NE
View	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Plano	TX
View	4109700	Telecom Management, Inc. dba	Cellular	D	Portland	ME

		Pioneer Telephone				
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4112100	Tello LLC	Cellular	C	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	C	Atlanta	GA
View	4109000	Ting, Inc.	Cellular	B	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4112250	TROOMI WIRELESS, Inc.	Cellular	C	Lehi	UT
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4112600	Tube Incorporated dba Reach Mobile	Cellular	C	Chelmsford	MA
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY
View	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX

EXHIBIT E
FAA



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

Aeronautical Study No.
 2021-ASO-40149-OE

Issued Date: 12/13/2021

Donna-Marie Stipo
 Tillman Infrastructure, LLC
 152 West 57th Street
 8th Floor
 New York, NY 10019

**** 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 Pine Knot KY - TI-18773
 Location: Pine Knot, KY
 Latitude: 36-39-54.68N NAD 83
 Longitude: 84-26-54.71W
 Heights: 1411 feet site elevation (SE)
 265 feet above ground level (AGL)
 1676 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure would have no substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on the operation of air navigation facilities. Therefore, pursuant to the authority delegated to me, it is hereby determined that the structure would not be a hazard to air navigation provided the following condition(s) 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 M, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

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

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

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

See attachment for additional condition(s) or information.

This determination expires on 06/13/2023 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 subject to review if an interested party files a petition that is received by the FAA on or before January 12, 2022. In the event a petition for review is filed, it must contain a full statement of the basis upon which it is made and be submitted to the Manager of the Rules and Regulations Group. Petitions can be submitted via mail to Federal Aviation Administration, 800 Independence Ave, SW, Washington, DC 20591, via email at OEPetitions@faa.gov, or via facsimile (202) 267-9328.

This determination becomes final on January 22, 2022 unless a petition is timely filed. In which case, this determination will not become final pending disposition of the petition. Interested parties will be notified of the grant of any review. For any questions regarding your petition, please contact Rules and Regulations Group via telephone – 202-267-8783.

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.

This aeronautical study considered and analyzed the impact on existing and proposed arrival, departure, and en route procedures for aircraft operating under both visual flight rules and instrument flight rules; the impact on all existing and planned public-use airports, military airports and aeronautical facilities; and the cumulative impact resulting from the studied structure when combined with the impact of other existing or proposed

structures. The study disclosed that the described structure would have no substantial adverse effect on air navigation.

An account of the study findings, aeronautical objections received by the FAA during the study (if any), and the basis for the FAA's decision in this matter can be found on the following page(s).

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 Chris Smith, at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2021-ASO-40149-OE.

Signature Control No: 498020448-504376179

(DNH)

Mike Helvey

Manager, Obstruction Evaluation Group

Attachment(s)

Additional Information

Frequency Data

Map(s)

cc: FCC

Abbreviations

AGL - Above Ground Level

CFR, Code of Federal Regulations

NM - nautical mile

TPA - Traffic Pattern Airspace

The FAA study has disclosed that this proposed tower would be located approximately 3.29 nm southwest of the Airport Reference Point and would be within a protected surface at MC CREARY COUNTY Airport (18I), KY. It is identified as exceeding the obstruction standards of 14 CFR Part 77 as applied to 18I:

77.17 (a)(2) A height that is 200 feet AGL, or above the established airport elevation, whichever is higher, within 3 nautical miles of the established reference point of an airport with its longest runway more than 3,200 feet in actual length, and that height increases in the proportion of 100 feet for each additional nautical mile from the airport up to a maximum of 499 feet.

It would exceed by 41 feet.

The proposal was not circularized for public comment because current FAA obstruction evaluation policy exempts from circularization proposals which exceed the above cited obstruction standard, and does NOT penetrate the airport TPA.

AERONAUTICAL STUDY FOR POSSIBLE INSTRUMENT FLIGHT RULES (IFR) EFFECT DISCLOSED THE FOLLOWING:

- > The proposed structure would have no effect on any existing or proposed IFR arrival/departure routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR en route routes, operations, or procedures.
- > The proposed structure would have no effect on any existing or proposed IFR minimum flight altitudes.

AERONAUTICAL STUDY FOR POSSIBLE VISUAL FLIGHT RULES (VFR) EFFECT DISCLOSED THE FOLLOWING:

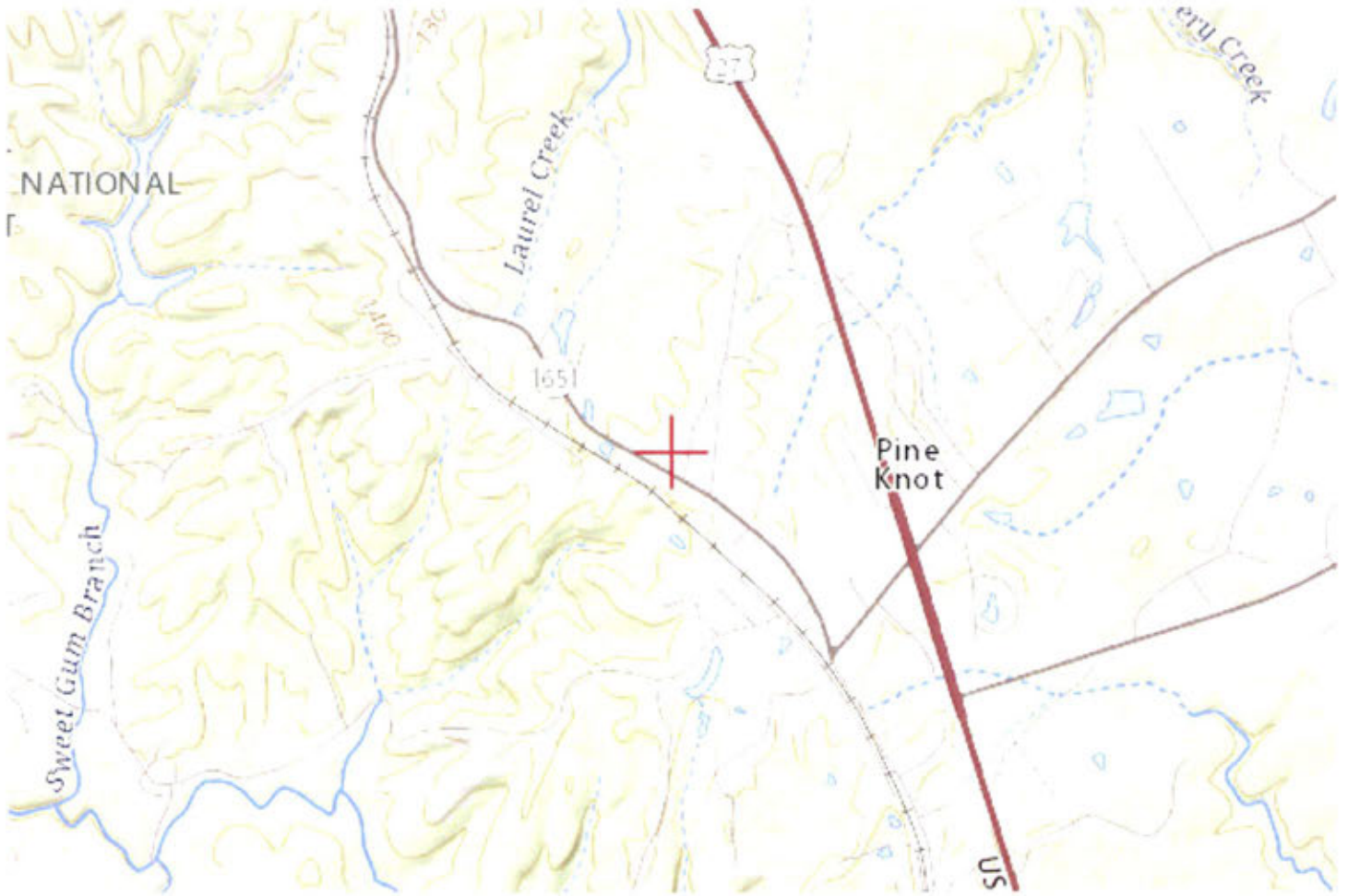
- > The proposed structure would have no effect on any existing or proposed VFR arrival or departure routes, operations or procedures.
- > The proposed structure would not conflict with airspace required to conduct normal VFR traffic pattern operations at 18I or any known public use or military airports.
- > The proposed structure would not have a substantial adverse effect on VFR en route flight operations.
- > The proposed structure will be appropriately obstruction marked/lighted to make it more conspicuous to airmen should circumnavigation be necessary.

The cumulative impact of the proposed structure, when combined with other proposed and existing structures is not considered significant. Study did not disclose any significant adverse effect on existing or proposed public-use or military airports or navigational facilities. Nor would the proposal affect the capacity of any known existing or planned public-use or military airport.

Therefore, it is determined that the proposed construction would not have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft or on any air navigation facility and would not be a hazard to air navigation provided the conditions set forth in this determination are met.

Frequency Data for ASN 2021-ASO-40149-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



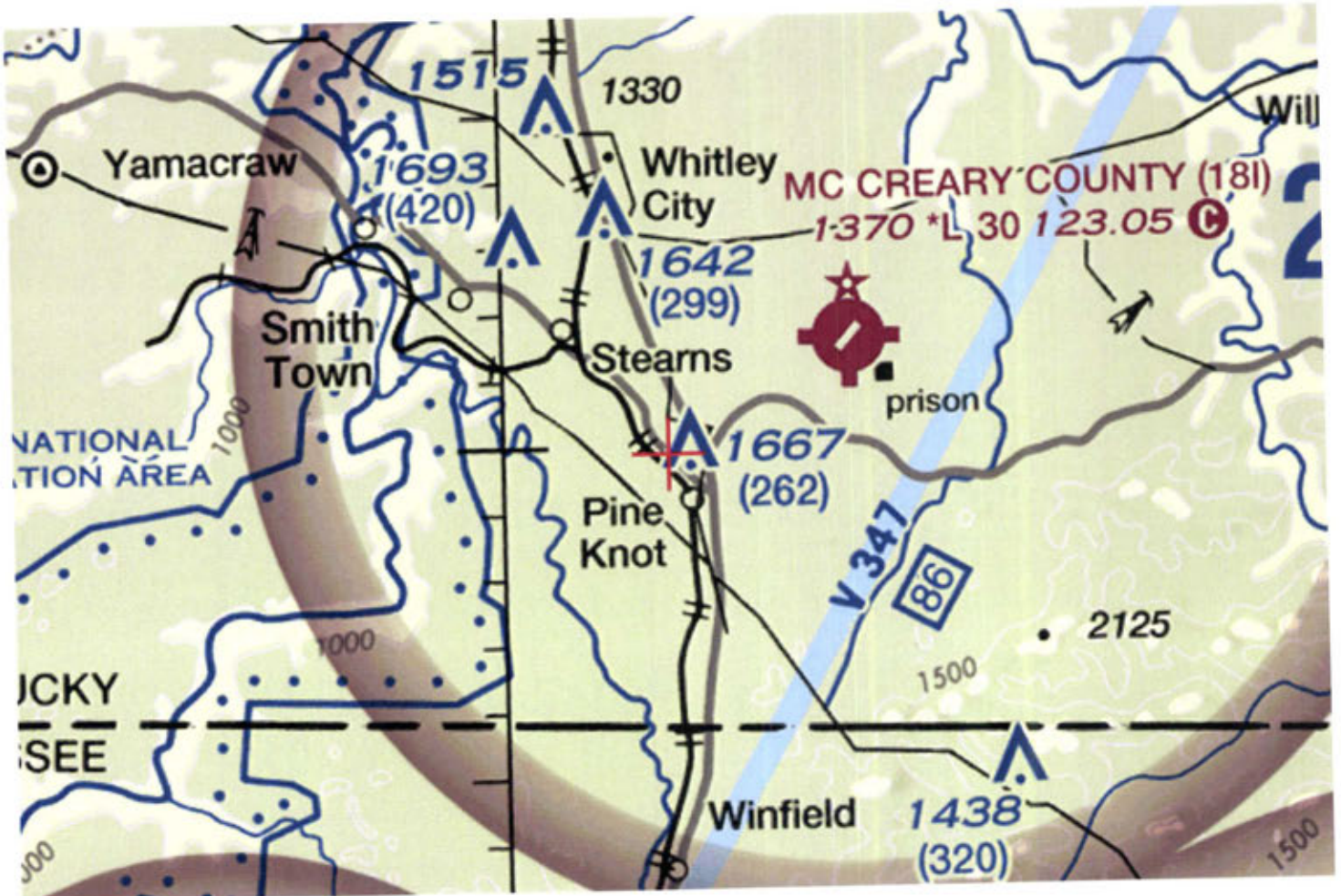


EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY TRANSPORTATION CABINET
 KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
 Rev. 05/2017
 Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Tillman Infrastructure, LLC		PHONE 212-706-1677	FAX	KY AERONAUTICAL STUDY #
ADDRESS (street) 157 West 57th Street, 27th Floor		CITY New York		STATE NY
APPLICANT'S REPRESENTATIVE (name)		PHONE	FAX	ZIP 10019
ADDRESS (street)		CITY		STATE
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing		DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)		WORK SCHEDULE Start End
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other		
LATITUDE 36 ° 39 ' 54 . 68 "		LONGITUDE 84 ° 26 ' 54 . 71 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other
NEAREST KENTUCKY City Pine Knot County McCleary		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT McCleary County Airport		
SITE ELEVATION (AMSL, feet) 1411'		TOTAL STRUCTURE HEIGHT (AGL, feet) 265'		CURRENT (FAA aeronautical study #) 2021-ASO-40149-OE
OVERALL HEIGHT (site elevation plus total structure height, feet) 1676'		PREVIOUS (FAA aeronautical study #)		
DISTANCE (from nearest Kentucky public use or Military airport to structure) 3.47 miles (map attached)		PREVIOUS (KY aeronautical study #)		
DIRECTION (from nearest Kentucky public use or Military airport to structure) Tower lies southwest of the airport - map attached.				
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) 5713 South Highway 1651, Pine Knot, KY 42635				
DESCRIPTION OF PROPOSAL Installation of a Self Support lattice Tower for Communication Services				
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? See Attached				
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)				
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)				
NAME Donna-Marie Stipo	TITLE National Director- Regulatory Compliance	SIGNATURE 	DATE 3.9.2022	
COMMISSION ACTION <input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC				
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	SIGNATURE		DATE	

EXHIBIT G
GEOTECHNICAL REPORT

**TI-OPP-18773
5787 SOUTH HWY 1651
PINE KNOT, MCCREARY COUNTY, KENTUCKY 42635**

**PREPARED FOR:
LCC TELECOM SERVICES**

**RAMAKER & ASSOCIATES, INC.
JOB NUMBER: 54499**

GEOTECHNICAL INVESTIGATION

GEOTECHNICAL INVESTIGATION

PROJECT: TI-OPP-18773
5787 South Hwy 1651
Pine Knot, McCreary County, Kentucky 42635

PREPARED FOR: LCC Telecom Services
10700 West Higgins Road, Suite 240
Rosemont, Illinois 60018

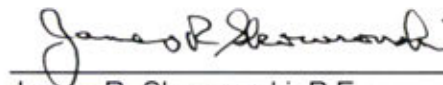
PREPARED BY: Ramaker & Associates, Inc.
855 Community Drive
Sauk City, Wisconsin 53583
Phone: (608) 643-4100
Fax: (608) 643-7999

RAMAKER JOB NUMBER: 54499

DATE OF ISSUANCE: March 11, 2022



Lucas M. Berg
Environmental Specialist



James R. Skowronski, P.E.
President & CEO



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1. USGS Quadrangle Map
2. Site Plan
3. Boring Log(s)

SECTION 1

INTRODUCTION

1.1 PROJECT INFORMATION

Ramaker & Associates, Inc. (Ramaker) was retained by LCC Telecom Services (LCC) to complete a geotechnical investigation for the project site summarized below.

PROPERTY INFORMATION	
Address:	5787 South Hwy 1651 in Pine Knot, McCreary County, Kentucky
Tower 1A Coordinates:	36° 39' 54.68" North 84° 26' 54.71" West
1A Elevation:	1411.2 feet above mean sea level (AMSL)
Topography:	Topography at the site slopes slightly to the west
Proposed Development:	Self-Support tower

1.2 PURPOSE AND OBJECTIVES

The purpose of this investigation was to obtain and provide LCC with engineering parameters, soil characteristics, foundation design recommendations, and geotechnical recommendations with respect to the proposed tower.

1.3 SCOPE OF SERVICES

Ramaker completed the geotechnical investigation following generally accepted industry standards and in general accordance with *Annex G: Geotechnical Investigations of Telecommunications Industries Association, Structural Standard for Antenna Supporting Structures and Antennas, TIA Standard ANS/TIA-222-G-2009*, Washington, D.C. The scope of work included the following:

- One boring was advanced near each proposed tower leg location for a total of three borings. Drilling was completed on March 4, 2022.
- Representative soil samples were obtained using a standard 2-inch diameter split spoon sampler in general accordance with ASTM D 1586, "Penetration Testing and Split-Barrel Sampling of Soils." Sample intervals are recorded on the boring log(s) in Figure 3.
- Soil samples collected from each interval were classified using the Unified Soil Classification System (USCS) in general accordance with ASTM D 2487, "Standard Practice for Classification of Soils for Engineering Purposes" and ASTM D 2488, "Standard Practice for Description and Identification of Soils". No laboratory testing was conducted for this site.
- Ramaker analyzed boring logs and assessed the engineering characteristics of the in situ soils. The boring log(s) include a general subsurface profile, USCS classifications, and Standard Penetration Test values for each soil layer.
- Ramaker reviewed available physical and chemical setting sources for pertinent soil data (e.g. local soil types, geology, corrosive properties, pH, and frost depth).

1.4 LIMITATIONS

The scope of services for this report did not include any environmental assessment or investigation for the presence of hazardous or toxic materials in the soil, groundwater, or surface water within or beyond the subject site. Any statements in this report or on the test boring log regarding odors, staining of soils, or other unusual conditions observed are strictly for the information of LCC.

Data was obtained from sample locations identified in Figure 2; no other areas were investigated. The report summarizes subsurface conditions, only at specific locations and times, and only to depths penetrated. All recommendations contained herein are valid only for the described boring location(s) at the site investigated. This report was prepared on the assumption that soil conditions do not deviate from those investigated. Variations can occur between boring locations, the nature and extent of which may not become evident until after construction commences. These variations may not be represented by this report.

The recommendations contained within this report were developed based on the identified sample locations, general project information provided by the owner, reference information, field observations, and laboratory testing data, as applicable. Ramaker reserves the right to modify our recommendations should alterations to the proposed development occur. No other warranty, expressed or implied, is made.

Study Limitations & Restrictions that apply to this geotechnical investigation are further detailed in Section 5.

SECTION 2

EXPLORATION PROGRAM RESULTS

2.1 SUBSURFACE CONDITIONS

A general subsurface profile describing subsurface conditions is included as Figure 3.

Weathered bedrock was encountered at approximately 2.5 feet BGS with refusal at approximately 4.5 feet BGS in boring B1. Refusal on bedrock occurred at approximately 3 feet BGS in boring B2 and at approximately 2 feet BGS in boring B3. According to geologic references, bedrock is mapped as sandy shale and coarse ferruginous sandstone with occasional coal seams of the Breathitt Formation and typically exists at depths ranging from 0 to 50 feet BGS.

2.2 GROUNDWATER

Groundwater was not encountered during drilling operations. Seasonal fluctuations in groundwater table elevation are expected, however these fluctuations are not expected affect the recommended tower foundation at this site.

2.3 FROST DEPTH

According to TIA Standard ANSI/TIA-222-G-2005, the frost depth design criteria for McCreary County is 30 inches (2.5 feet) BGS.

2.4 PH VALUES AND CORROSIVE NATURE

Ramaker reviewed the USDA National Cooperative Web Soil Survey. Soil at the site is classified as Wernock-Sequoia complex. The pH of this soil type ranges from 3.6 to 7.3 and has a weighted average value of 4.7. This soil is rated with a high risk of corrosion to concrete and a moderate risk of corrosion to steel.

2.5 ELECTROLYTIC CORROSION

Underground pipelines, electrical substations and buried concentric neutral power wires may affect electrolytic corrosion.

Ramaker reviewed the National Pipeline Mapping System (NPMS) for underground pipelines near the site. The NPMS Public Map Viewer includes gas transmission pipelines and hazardous liquid trunk lines. Gathering and distribution pipelines are not available from this source. No transmission pipelines were shown within 1,000 feet of the proposed site.

Ramaker reviewed a recent aerial photograph (Google Earth) for the area surrounding the site to identify potential electrical substations and buried concentric neutral power wires. No electrical substations were visible within 1,000 feet of the proposed site. No structures that may be indicative of buried concentric neutral power wires were visible within 1,000 feet of the proposed site.

SECTION 3

RECOMMENDATIONS

3.1 SHALLOW TOWER FOUNDATION SYSTEM

Ramaker recommends a shallow foundation system consisting of a spread footing. The base of the foundation should be placed a minimum of 6 feet BGS or upon bedrock. A site-specific grading plan or rock anchors may be necessary to meet structural design requirements. The material at the proposed tower location is expected to provide an **ultimate net bearing capacity of 27,000 psf**. Other foundation design parameters for a shallow foundation system are provided below.

B1					
Depth (ft)		USCS Soil Type	Effective Unit Weight (pcf)	Cohesion (psf)	Friction Angle (degrees)
Top	Bottom				
0.0	2.5	CL	115	700	---
2.5	4.5	WEATHERED BEDROCK	120	---	36

B2					
Depth (ft)		USCS Soil Type	Effective Unit Weight (pcf)	Cohesion (psf)	Friction Angle (degrees)
Top	Bottom				
0.0	3.0	SC	119	---	36

B3					
Depth (ft)		USCS Soil Type	Effective Unit Weight (pcf)	Cohesion (psf)	Friction Angle (degrees)
Top	Bottom				
0.0	2.0	SP-SC	120	---	36

3.2 DEEP TOWER FOUNDATION SYSTEM

A deep foundation system is not recommended at this site.

3.3 SITE GRADING

Grading for the site should be completed in accordance with the following:

- Strip and dispose of any remains of previous improvements discovered within the areas to be graded. This shall include removal of all vegetation, debris, and other deleterious material. Any concrete and/or asphaltic rubble larger than six (6) inches in diameter should be removed and wasted in accordance with all applicable regulations.
- Scarify the surface in areas where fill will be placed.
- Remove at least six (6) inches of the subgrade soil beneath slabs and footings and replace with on-site or imported fill material meeting the criteria below.

- Fill material should meet the following minimum standards:
 - I. Less than 5% passing the No. 200 sieve (<5% fines),
 - II. Plasticity index not more than 6 (PI<6), and
 - III. Liquid limit below 20 (LL<20)
- Fill material should be placed in lifts of 6 to 9 inches.
- Fill material should be moist at the time of placement. Dry or saturated fill material should not be used.
- Compact all soils, wherein the term “compact” and its derivatives mean a minimum of 98 percent of the Standard Proctor dry density (ASTM D698). Moisture conditioning may be required to achieve compaction requirements.
- Utility trenches are to be backfilled and compacted to a minimum 98 percent of the Standard Proctor dry density (ASTM D698) under slabs or other improvements. In all other areas, utility trenches are to be backfilled and compacted to a minimum of 90 percent of the Standard Proctor dry density (ASTM D698).
- Frozen material should not be used as fill material. Compacted fill should not be placed on frozen material or allowed to freeze.
- The site should be graded such that storm water is directed away from all foundations. Water should not be allowed to pond next to any foundation elements.
- Finished grade slopes should be graded to minimum of a 3:1 ratio.

3.4 OTHER PERTINENT DESIGN DATA AND RECOMMENDATIONS

Weathered bedrock was encountered at approximately 2.5 feet BGS with refusal at approximately 4.5 feet BGS in boring B1. Refusal on bedrock occurred at approximately 3 feet BGS in boring B2 and at approximately 2 feet BGS in boring B3.

- Removal of bedrock by drilling, vibrating, hammering, blasting or other mechanical means may be required to install the tower foundation system.
- The depth to bedrock may vary across the site requiring leveling procedures prior to foundation installation.

SECTION 4

REFERENCES

1. 7.5 - Minute Series United States Geological Survey Quadrangle.
2. ASTM International, *ASTM D1586-11: Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils*
3. ASTM International, *ASTM D2487-11: Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)*
4. ASTM International, *ASTM D2488-09a: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)*
5. Telecommunications Industries Association, *Structural Standard for Antenna Supporting Structures and Antennas, TIA Standard ANSI/TIA-222-G-2009*, Washington, D.C.
6. United States Department of Agriculture National Resources Conservation Service, National Cooperative Web Soil Survey (<http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>).
7. National Pipeline Mapping System (www.npms.phmsa.dot.gov)
8. Dan A. Brown, Ph.D, P.E., John P. Turner, Ph.D, P.E., and Raymond J. Castelli, P.E., *Drilled Shafts: Construction Procedures and LRFD Design Methods* NHI Course No. 132014, Geotechnical Engineering Circular No. 10, Federal Highway Administration Publication No. FHWA-NHI-10-016, May 2010
9. Reese, Lymon C., Ph.D., P.E. and Michael W. O'Neill Ph.D., P.E., *Drilled Shafts: Construction Procedures and Design Methods*, Publication Nos. FHWA-IF-99-025, August 1999
10. Das, Braja M., *Principles of Geotechnical Engineering*, 7th Edition, 2010
11. Bowles, Joseph E., *Foundation Analysis and Design*, 5th Edition, 1997
12. Terzaghi, Karl; Peck, Ralph B; Mesri, Gholamreza; *Soil Mechanics in Engineering Practice*, 3rd Edition, 1996
13. Reese, Lymon C.; Isenhower, William M.; Wang, Shin-Tower; *Analysis and Design of Shallow and Deep Foundations*, 2006
14. NAVFAC DM-7.1, *Soil Mechanics, Design Manual 7.1*, Department of the Navy, Naval Facilities Engineering Command, Alexandria, VA, 1986
15. NAVFAC DM-7.2, *Foundations & Earth Structures*, Department of the Navy, Naval Facilities Engineering Command, Alexandria, VA, 1986
16. Google Earth
17. United States Geological Survey, *The National Geologic Map Database*, ngmdb.usgs.gov

SECTION 5

STUDY LIMITATIONS AND RESTRICTIONS

In preparing this Report, Ramaker & Associates, Inc.'s professional services were provided in a manner consistent with that level of skill, care and judgment ordinarily exercised by similar professionals providing services in this locality under similar conditions, all as measured as of the time Ramaker & Associates, Inc. services were rendered. The findings, opinions, conclusions, analysis and recommendations presented herein constitute the professional opinions of Ramaker & Associates, Inc. These opinions are based upon the prevailing and accepted hydrogeologic, scientific, engineering and environmental consulting professional practices in this locality, all as measured as of the time Ramaker & Associates, Inc.'s services were rendered. No other warranty or guarantee, express or implied, is made as to Ramaker & Associates, Inc.'s findings, opinions, conclusions and recommendations included in this assessment.

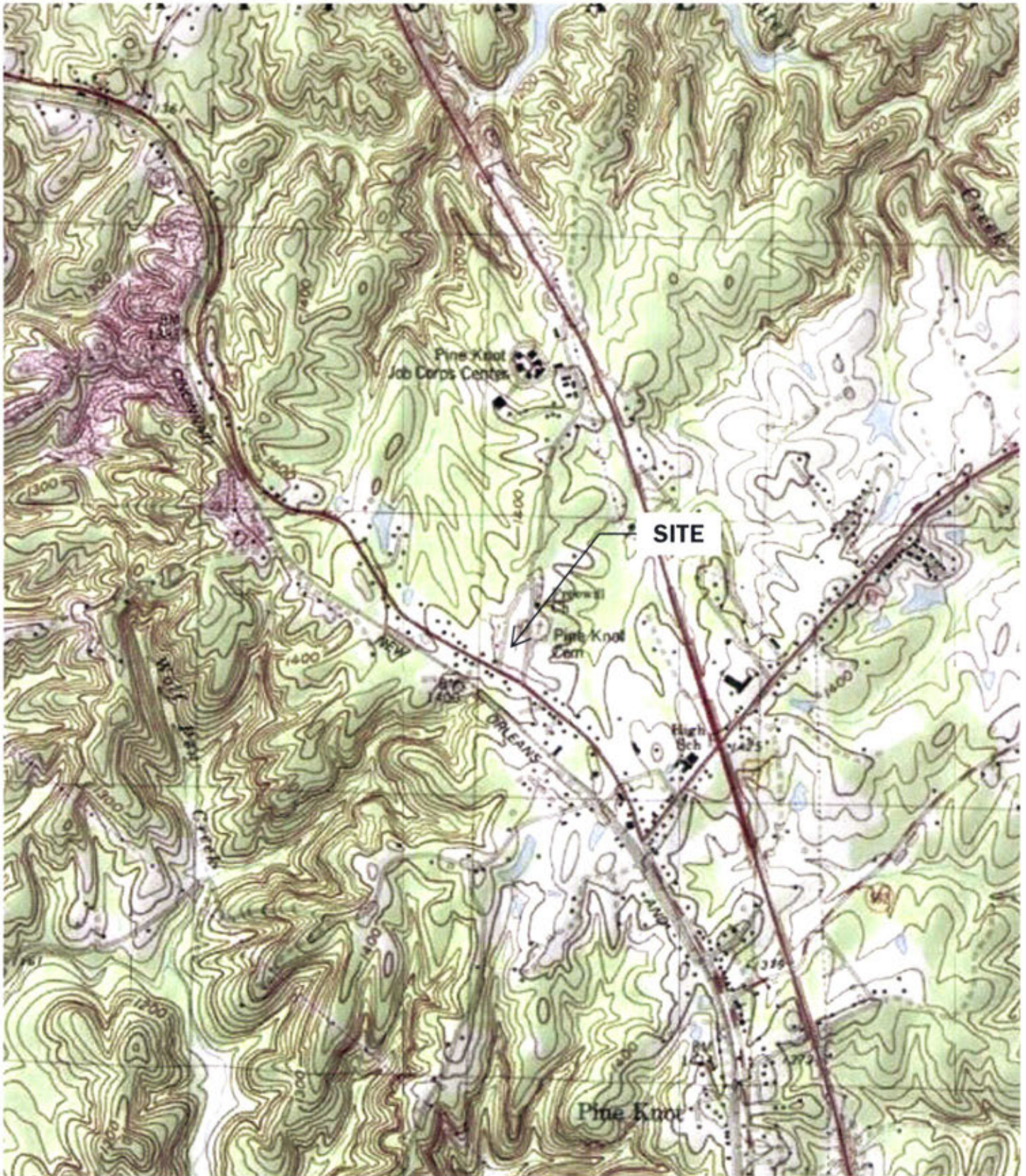
Information provided to Ramaker & Associates, Inc. by individuals familiar and/or associated with the subject property and/or facility or adjacent land parcels and/or facilities has been accepted by Ramaker & Associates, Inc. in good faith and is assumed to be accurate. Similarly, information provided to Ramaker & Associates, Inc. by database search services or governmental or regulatory records, or databases, has been accepted by Ramaker & Associates, Inc. in good faith and is assumed to be accurate. Client has neither requested nor paid Ramaker & Associates, Inc. to independently verify the truthfulness, accuracy or completeness of the information provided to Ramaker & Associates, Inc. by database search services, governmental or regulatory records or databases, or by individuals. Ramaker & Associates, Inc. assumes no responsibility for and provides no certification, warranty or guarantee of the truthfulness, validity, accuracy or completeness of governmental or regulatory records or databases, database search services, or information provided by others to Ramaker & Associates, Inc.

The information reported herein may trigger for the Client certain obligations pursuant to local, state or federal ordinances, laws, rules or regulations to report the discovery of environmental releases or conditions to local, state or federal regulatory or governmental authorities or to take other action. Client has not requested and Ramaker & Associates, Inc. has not provided herein any advice, recommendation or conclusion regarding the reportable nature of any of the findings or observations described herein. The determination of Client's reporting requirements or obligations, if any, under law is a legal conclusion for which Ramaker & Associates, Inc. assumes no responsibility and about which Ramaker & Associates, Inc. provides no opinion, conclusion, finding or certification. Client is advised to seek the advice of legal counsel to determine Client's obligations should environmental releases or conditions be noted herein.

The scope of work reflected in this Report was approved by Client and has inherent limitations regarding the amount of data or evidence collected. Because professional judgments incorporated into this Report are based on limited evidence, there is inherent uncertainty in the conclusions drawn and reported herein. The Client has, after consultation, approved the level of effort for Ramaker & Associates, Inc. to undertake and, therefore, has determined the corresponding degree of uncertainty as acceptable for Client's purposes.

This report was prepared for the exclusive use of Client and not for use or reliance by any third party. Any third party necessarily has different interests, purposes, concerns, and motives than the Client with regard to this report or assessment. Therefore, use of this report by any third party is expressly prohibited without the joint written authorization of the Client and Ramaker & Associates, Inc., which shall necessarily include the precondition that the third-party agree to accept Ramaker & Associates, Inc.'s "Terms and Conditions of Agreement," including the limitation of liability and indemnification protections.

This Report is intended to be presented and reproduced only in its entirety, complete with all supporting data, assumptions, limitations, and, if applicable, recommendations. This report shall not be used by Client or any party in any form other than its entirety, and all abridged or altered versions are prohibited.



USGS 7.5-Minute Quadrangle

TI-OPP-18773
5787 South Hwy 1651
Pine Knot, Kentucky 42635
McCreary County

Source: Google Earth

RAMAKER
employee-owned

NOT TO SCALE



Project Number: 54499
 Project Name: TI-OPP-18773
 Address: 5787 South Hwy 1651
 City, State: Pine Knot, Kentucky
 County: McCreary
 Sample Method: Split Spoon
 Elevation (ft AMSL): 1411.20 (per 1A)

Boring Number: B1
 Drill Start Date: 03/04/22
 Drill End Date: 03/04/22
 Boring Depth (ft BGS): 4.5
 GW Depth (ft BGS): Not Encountered
 Depth of Collapse (ft BGS): Not Reported

NR - Not Reported

▼ = Water Level

Sample Number	Sample From (ft)	Sample To (ft)	Recovery (in)	Moisture	Blow Counts			N-Value	USCS Classification	Water	Depth (ft) BGS	Description
1	1	2.5	NR	M	2	2	4	6	CL		0	Topsoil
											1	Brown silty clay with little fine to medium sand
2	3.5	4.5	10	M	12	50/3*	---	50+	WEATHERED BEDROCK		2	
											3	Brownish-yellow fine to medium sand with little silty clay
											4	
											5	Refusal at 4.5 feet BGS on bedrock
											6	
											7	
											8	
											9	
											10	
											11	
											12	
											13	
											14	
											15	
											16	
											17	
											18	
											19	
											20	

Project Number: 54499
Project Name: TI-OPP-18773
Address: 5787 South Hwy 1651
City, State: Pine Knot, Kentucky
County: McCreary
Sample Method: Split Spoon
Elevation (ft AMSL): 1411.20 (per 1A)

Boring Number: B2
Drill Start Date: 03/04/22
Drill End Date: 03/04/22
Boring Depth (ft BGS): 3
GW Depth (ft BGS): Not Encountered
Depth of Collapse (ft BGS): Not Reported

▼ = Water Level

Sample Number	Sample From (ft)	Sample To (ft)	Recovery (in)	Moisture	Blow Counts			N-Value	USCS Classification	Water	Depth (ft) BGS	Description
1	1	2.5	12	M	2	34	10	44	SC		0	Topsoil
											1	Brownish-yellow fine to medium sand with some silty clay
											2	
										3		
											4	Refusal at 3 feet BGS on bedrock
											5	
											6	
											7	
											8	
											9	
											10	
											11	
											12	
											13	
											14	
											15	
											16	
											17	
											18	
											19	
											20	

Project Number: 54499
 Project Name: TI-OPP-18773
 Address: 5787 South Hwy 1651
 City, State: Pine Knot, Kentucky
 County: McCreary
 Sample Method: Split Spoon
 Elevation (ft AMSL): 1411.20 (per 1A)

Boring Number: B3
 Drill Start Date: 03/04/22
 Drill End Date: 03/04/22
 Boring Depth (ft BGS): 2
 GW Depth (ft BGS): Not Encountered
 Depth of Collapse (ft BGS): Not Reported

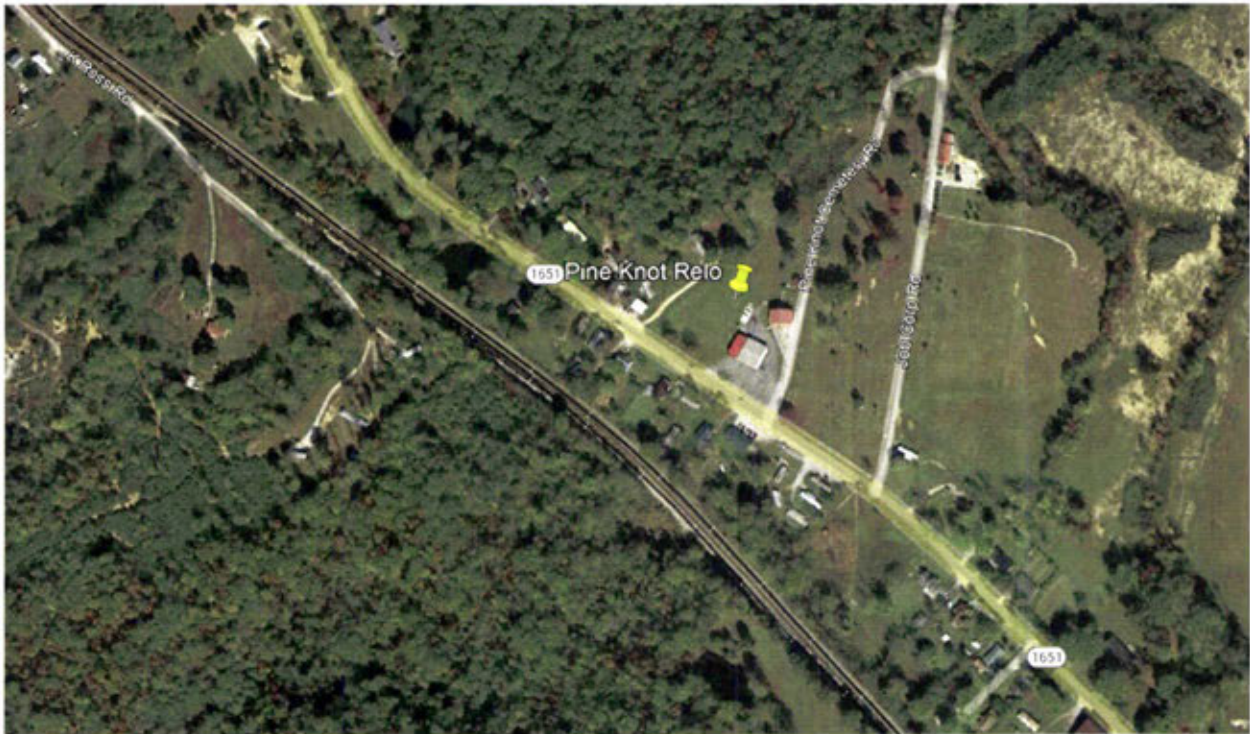
▼ = Water Level

Sample Number	Sample From (ft)	Sample To (ft)	Recovery (in)	Moisture	Blow Counts			N-Value	USCS Classification	Water	Depth (ft) BGS	Description
												Topsoil
									SP-SC		1	Brownish-yellow fine to medium sand with little silty clay
1	1	2	10	M	2	38	50/0*	50+			2	
												Refusal at 2 feet BGS on bedrock
											3	
											4	
											5	
											6	
											7	
											8	
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											20	

**EXHIBIT H
DIRECTIONS TO WCF SITE**

Driving Directions to Proposed Tower Site

1. Beginning at 1 North Main Street, Whitley City, KY 42653, head south on State Hwy 1651 toward Court Street-Geary Ave / Gary Street and travel approximately 259 feet.
2. Turn left at the first cross street onto Court Street-Geary Ave / Gary Street and travel approximately 495 feet.
3. Turn right onto US-27 S and travel approximately 4.0 miles.
4. Turn right onto Job Corp Road and travel approximately 0.5 miles.
5. Turn right onto Pine Knot Cemetery Road and travel approximately 0.2 miles.
6. Turn right onto State Hwy 1651 and travel approximately 217 feet.
7. The site is located on the right at 5787 State Hwy 1651, Pine Knot, KY 42635.
8. The site coordinates are:
 - a. North 36 deg 39 min 54.68 sec
 - b. West 84 deg 26 min 54.71 sec



Prepared by:
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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

Market: TN/KY
Cell Site Number: TI-OPP-18773
Cell Site Name: Pine Knot RELO
Search Ring Name: _____
Fixed Asset Number: 15612904

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 South McCreary County Fire Protection District, of Pine Knot who also acquired title as South McCreary Fire Department, Pine Knot, Kentucky, having a mailing address of P.O. Box 549, Pine Knot, KY 42635 (“**Landlord**”) and Tillman Infrastructure LLC, a Delaware limited liability company, having an address at 152 West 57th Street, New York, New York 10019 (“**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 5787 S Highway 1651, in the County of McCreary, 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 consisting of a 90’ x 60’ parcel of property, as described on attached **Exhibit 1**, (the “**Premises**”), for the placement of a Communication Facility in accordance with the terms of this Agreement.

(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, registrations with the Federal Communications Commissions and construction permits (collectively, the “**Government Approvals**”), initiate the ordering and/or scheduling of necessary utilities. 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 Options contained in this Agreement, Tenant agrees to pay Landlord the sum of [REDACTED] 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**”). If the Option is not exercised during the Initial Term, the term shall automatically renew for an additional one (1) year (the “**Renewal Option Term**”). Tenant shall pay Landlord an additional [REDACTED] within thirty (30) business days after the start date of the Renewal 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.

(c) 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, then 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, the Property, (the "Surrounding Property"), or in the event of a threatened foreclosure on any of the foregoing, 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 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.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and related activities, 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 tower and 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; (collectively, the "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 one hundred twenty (120) 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 shelters or cabinets to the antennas, electric lines from the main feed to the equipment shelters or cabinets and communication lines from the Property's main entry point to the equipment shelters or cabinets, install a generator(s) and to make other improvements, additions, 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. 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 to the Structure or relocate the Communication Facility or add additional cabinets 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.

3. **TERM.**

(a) The initial lease term will be ten (10) 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 tenth (10th) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for sixteen (16) 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 the then-existing Extension Term.

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

4. **RENT.**

(a) Commencing on the first day of the calendar month following the date that Tenant commences construction (the "Rent Commencement Date"), Tenant will pay Landlord on or before the tenth (10th) day of each calendar month in advance, [REDACTED] the "Rent", at the address set forth above. In any partial month occurring after the Rent Commencement Date, the 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.

V4.19.2021



State of Ky, County of McCreary
Signed before me on this 23rd day
of September, 2021 by Charles H. [unclear]
Notary Public [Signature]

Amended Page

(b) Upon the commencement of each Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the previous term.

(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 provisions of this subsection shall survive the termination or expiration of this Agreement.

5. 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 [REDACTED] 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 [REDACTED]

Notwithstanding the foregoing, Tenant shall have the right to self-insure such general liability coverage or by adding this site as an endorsement on a pre-existing master policy which contains the above limit.

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 or degradation or damage to the Communication Facility

9. INDEMNIFICATION.

(a) Tenant agrees to indemnify and save Landlord harmless from and against any and all liability, damage, expense, claims or judgments, including reasonable attorneys' fees, resulting from injury to person or damage to property resulting from or arising out of the use and occupancy of the Premises by Tenant if caused by the gross negligence or willful misconduct of Tenant, its agents, employees, invitees, guests or arising out of the breach of any provision of this Agreement during the term of this Agreement

(b) Landlord agrees to indemnify and save Tenant harmless from and against any and all liability, damage, expense, claims or judgments, including reasonable attorneys' fees, resulting from injury to person or damage to property resulting from or arising out of the use and occupancy of the Property by Landlord if caused by the gross negligence or willful misconduct of Landlord, its agents, employees, invitees, guests or arising out of the breach of any provision of this Agreement during the term of this Agreement

ross

10. WARRANTIES.

(a) Each of Tenant and Landlord (to the extent not a natural person) each 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, 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) Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises in accordance with the terms of this Agreement without 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, then 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 2.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants, except as may be identified in **Exhibit 3** attached to this Agreement, (i) the Property, as of the Effective Date, is free of hazardous substances, including asbestos-containing 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, , that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use. , then 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, it's subtenants, lessees assigns and licensees 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 (the "Access Easement"). Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. 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. If Tenant elects to utilize an Unmanned Aircraft System ("UAS") in connection with its installation, construction, monitoring, suite audits, inspections, maintenance, repair, modification, or alteration activities at the Property, Landlord hereby grants Tenant, as any UAS operator acting on Tenant's behalf, express permission to fly over the applicable Property and Premises, and consents to the use of audio and video navigation and recording in connection with the use of the UAS

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 tenable condition, subject to reasonable wear and tear and damage from the elements.

(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. 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.

(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 Tenant and any service company providing utility or similar services, including electric power and telecommunications, to Tenant an easement, in, on under and over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of maintaining and operating the Communication Facility and constructing, operating, upgrading and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as Tenant and such service companies may from time to time require in order to provide such services to the Premises (the "Utility Easement"). Upon Tenant's or service company's request, Landlord will execute a separate recordable Utility 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, then 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. 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 including Rent, and (ii) any and all other rights available to it under law and equity.

16. ASSIGNMENT/SUBLEASE.

(a) 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.

(b) Subject to the terms of this Agreement, Landlord shall have the right to assign and transfer this Agreement only to a successor owner of the Property. Only upon Tenant receipt of written verification of a sale, or transfer of the Property shall Landlord be relieved of all liabilities and obligations to and Tenant shall look solely to the new landlord for performance under this Agreement. Landlord shall not attempt to assign, or otherwise transfer this Agreement separate from a transfer of ownership of the Property (the "Severance

Transaction”), without the prior written consent of Tenant, which consent may be withheld or conditioned in Tenant’s sole discretion. If the Tenant consents to a Severance Transaction, Landlord and its successors and assigns shall remain jointly and severally responsible for the performance of all duties and obligations of the Landlord under this Agreement.

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 hereto as follows:

If to Tenant: Tillman Infrastructure LLC
152 West 57th Street 27th Floor
New York, New York 10019
Attn: Lease Administration

With a copy to: Tillman Infrastructure LLC
152 West 57th Street 27th Floor
New York, New York 10019
Attn: Suruchi Ahuja

If to Landlord: South McCreary Fire Protection District
P.O. Box 549
Pine Knot, KY 42635

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 hereto as provided herein.

18. **CONDEMNATION.** 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 Structure and Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses.

19. **CASUALTY.** 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 the 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 Tenant undertakes to rebuild or restore 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 Communication Facility is completed.

20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility including the Structure 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) Tenant shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the Property which Landlord demonstrates is the result of Tenant's use of the Premises and/or the installation, maintenance, and operation of the Tenant's improvements, and any sales tax imposed on the rent (except to the extent that Tenant is or may become exempt from the payment of sales tax in the jurisdiction in which the Property is located), including any increase in real estate taxes at the Property which Landlord demonstrates arises from the Tenant's improvements and/or Tenant's use of the Premises. Landlord and Tenant shall each be responsible for the payment of any taxes, levies, assessments and other charges imposed including franchise and similar taxes imposed upon the business conducted by Landlord or Tenant at the Property. Notwithstanding the foregoing, tenant shall not have the obligation to pay any tax, assessment, or charge that Tenant is disputing in good faith in appropriate proceedings prior to a final determination that such tax is properly assessed provided that no lien attaches to the Property. Nothing in this Paragraph shall be construed as making Tenant liable for any portion of Landlord's income taxes in connection with any Property or otherwise. Except as set forth in this Paragraph, Landlord shall have the responsibility to pay any personal property, real estate taxes, assessments, or charges owed on the Property and shall do so prior to the imposition of any lien on the Property.

(b) Tenant shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which Tenant is wholly or partly responsible for payment. Landlord shall reasonably cooperate with Tenant at Tenant's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by Tenant, there is a reduction, credit or repayment received by the Landlord for any taxes previously paid by Tenant, Landlord agrees to promptly reimburse to Tenant the amount of said reduction, credit or repayment. In the event that Tenant does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, Landlord will pursue such dispute at Tenant's sole cost and expense upon written request of Tenant.

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 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. New deed to Property
- ii. New IRS Form W-9
- iii. Completed and Signed Tenant Payment Direction Form
- iv. 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 the 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. 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.

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 and 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.

24. ELECTRONIC SIGNATURE. The parties acknowledge and agree that this Agreement may be executed by electronic signature, which shall be considered as an original signature for all purposes and shall have the same force and effect as an original signature. Without limitation, "electronic signature" shall include faxed version of an original signature or electronically scanned and transmittal version (e.g. via pdf) of an original signature.

25. 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/Short Form Lease.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as **Exhibit 4**. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion.

(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. 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 Tillman Infrastructure 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.

(l) **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, including any Subordination, Non-Disturbance and Attornment Agreement.

(q) **Confidentiality.** The terms and conditions of this Agreement are confidential between the parties and Landlord shall not disclose the same to anyone else, except to Landlord's accountant, attorney and as agreed to by the Parties (except as to sublessees), or as is necessary to effectuate the terms of this Agreement. Any Disclosure in violation of this Section shall be deemed a material breach of this Agreement.

(r) **Estoppel.** Either party will, at any time upon twenty (20) business days prior written notice from the other, execute, acknowledge and deliver to the other a statement in writing (i) certifying that this Agreement is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying this Agreement, as so modified, is in full force and effect) and the date to which the Rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to such party's knowledge, any uncured defaults on the part of the other party hereunder, or specifying such defaults if any are claimed.

(s) **Rules Against Perpetuities.** If this Agreement or any covenants or provisions herein would otherwise be unlawful, void or voidable for violation of the Rule against Perpetuities, then the same shall continue until 20 years and 6 months after the date of death of the last survivor of the members of Congress of the United States of America (including the House of Representatives and the Senate) representing the State in which the Premises is located who are serving on the date of this Agreement

(t) **Security Interest.** Tenant has the right to assign, mortgage or grant a security interest in all or a portion of Tenant's interest in and to this Agreement, Premises, the Structure, Communication Facility, equipment and Easements, and may assign such Tenant's interests to any such assignee, mortgagees, or holders of security interests, all without Landlord's consent ("Secured Party" or, collectively, "Secured Parties"). If requested, Lessor shall execute such consent to Tenant's financing as may reasonably be required by Secured Parties.

[SIGNATURE PAGES TO FOLLOW]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the Effective Date.

“WITNESSES”

“TENANT”

TILLMAN INFRASTRUCTURE LLC,
a Delaware limited liability company

Name: _____

By: Chris Mularadelis

Name: _____

Name: Chris Mularadelis
Its: as Authorized Signatory.
Date: 9-30-2021

ACKNOWLEDGMENT FOR TENANT

STATE OF NEW JERSEY

COUNTY OF BERGEN

September 30, 2021

This instrument was acknowledged before me on _____ by Chris Mularadelis, as Authorized Signatory for Tillman Infrastructure LLC, a Delaware limited liability company, on behalf of said company.

WITNESS my hand and official seal.

Signature: Haydee Rodriguez
My Commission Expires: _____
Commission Number: _____

HAYDEE RODRIGUEZ
ID # 2280617
NOTARY PUBLIC
STATE OF NEW JERSEY
My Commission Expires November 30, 2022

Exhibit 1

Description of the Premises & Access and Utility Easements:

Page 1 of 3

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to the Option and Lease Agreement dated September 27, 2021, by and between South McCreary County Fire Protection District, of Pine Knot, Kentucky who also acquired title as South McCreary Fire Department, Pine Knot, Kentucky, as Landlord, and Tillman Infrastructure, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

An interest in land, said interest being over a portion of the following described parent parcel:

PARCEL 1:

A certain tract of land situated in McCreary County, Kentucky, in Pine Knot, adjacent to and on south side of U. S. Highway 27 and bound as follows:

Beginning at the junction of the cemetery road and U. S. Highway 27 and 30 feet from its center; thence along the said road N 8-30 E 82 feet to a post by the said road; thence continuing with the said road N 6 E 142 feet to a post and large locust tree, a corner to a cemetery tract; thence with the same N 81-30 W 96 feet to a post, its corner; thence continuing with the said tract N 6-30 E 100 feet to a post, its corner; thence with the said line N 81-30 W 143 feet to a stone and dogwood in the original line; thence along the said line and deed call S 52-30 W 150 feet to a large white oak on-said line; thence leaving the original line and S 44-30 W 91 feet to a post and REA power poles on said Highway 27; thence along said highway S 60-30 E 413 feet to the place of beginning, containing two and one-half acres, more or less.

AND BEING the same property conveyed to South McCreary County Fire Protection District, of Pine Knot, Kentucky from Carl Stanley and Dessie Stanley, his wife by Deed dated May 5, 1978 and recorded May 16, 1978 in Deed Book 85, Page 719; AND FURTHER CONVEYED to South McCreary Fire Department, Pine Knot, Kentucky from Carl Stanley, and Dessie Stanley, his wife by General Warranty Deed dated January 11, 1988 and recorded February 2, 1988 in Deed Book 112, Page 117.

PARCEL 2:

A certain tract of land situated in McCreary County, Kentucky, at Pine Knot and adjacent to the cemetery road, and bound as follows:

BEGINNING at a large locust in the edge of the cemetery road; thence N 12-00 E 53 feet to a stake in the edge of said road; thence N 86-00 W 65 feet to a steel pipe; thence S 12-00 W 43 feet; thence S 73-30 E 65 feet to the beginning.

AND BEING the same property conveyed to South McCreary County Fire Protection District, of Pine Knot, Kentucky from Ronald King and Mary Alice King, his wife by Deed dated May 5, 1978 and recorded May 16, 1978 in Deed Book 85, Page 717.

PARCEL 3:

BEGINNING at a steel pipe, corner to South McCreary County Fire Protection District, and running N. 86 W. 33 feet to a steel pin; thence S. 13 W. 38 feet to a pipe, corner to Carl Stanley; thence with said Stanley line S. 73-30 E. 31 feet to a steel pipe, corner to South McCreary County Fire Protection District; thence with said Fire District line N. 12 E. 43 feet to the BEGINNING.

AND BEING the same property conveyed to South McCreary County Fire Protection District, Pine Knot, Kentucky from Mary Alice King, a widow, individually, and Mary Alice King and Darrell Dwayne King, co-executors of the estate of Ronald King, deceased by Deed of Conveyance dated October 17, 1978 and recorded October 30, 1978 in Deed Book 87, Page 321.

Exhibit 1

Description of the Premises & Access and Utility Easements:

Page 2 of 3

to the Option and Lease Agreement dated September 21, 2021, by and between South McCreary County Fire Protection District, of Pine Knot, Kentucky who also acquired title as South McCreary Fire Department, Pine Knot, Kentucky, as Landlord, and Tillman Infrastructure, a Delaware limited liability company, as Tenant.

PARCEL 4:

Certain lots of land situated in McCreary County, Kentucky, at Pipe Knot and described as follows:

Being Lot No. 5A, Tract A.

AND BEING the same property conveyed to South McCreary County Fire Protection District from Pine Knot Cemetery Association, Inc. by Deed dated November 6, 1986 and recorded November 21, 1986 in Deed Book 108, Page 716.

Tax Parcel Nos. 123-40-01-001.00, 123-40-01-002.00

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

Insert metes and bounds description of area

**EXHIBIT J
NOTIFICATION LISTING
CERTIFIED GREEN CARD RECEIPTS**

Pine Knot Relo – Notice List

SOUTH MCCREARY FIRE DEPT
P.O. BOX 549
PINE KNOT KY 42635

PINE KNOT CEMETERY
6519 STATE HIGHWAY 1651
PINE KNOT, KENTUCKY, 42635

CRAWFORD MICHAEL E & VICKEY D
5901 S HWY 1651
PINE KNOT KY 42635

DAUGHERTY LOTTIE CATHERINE
REVOCABLE LIVING TRUST
PO BOX 548
PINE KNOT KY 42635

GRUNDY MICHAEL EDWARD & JULIA ANN
PO BOX 103
REVELO KY 42638

GRUNDY JULIA & MICHAEL
PO BOX 103
REVELO KY 42638

GRUNDY JULIA & MICHAEL EDWARD
PO BOX 103
REVELO KY 42638

PATTON CAROLYN S & STANLEY JR
3226 HWY 92 W
STEARNS KY 42647

BUTLER LANA KAY
5760 S HWY 1651
PINE KNOT KY 42635

HAMBY BENNY K
PO BOX 285
PINE KNOT KY 42635

WINCHESTER HAZEL
PO BOX 154
PINE KNOT KY 42635

WATERS LISA
5713 S HWY 1651
PINE KNOT KY 42635

VANOVER JAMES R
PO BOX 631
STEARNS KY 42647

RYAN ALBERT J & MARCELLA -ESTATE-
403 PROMISE LN
ELIZABETHTOWN KY 42701-6467

STEPHENS ALISON T
5676 S HWY 1651
PINE KNOT KY 42635

LEWIS JOYCE
PO BOX 88
STEARNS KY 42647

HARDWICK DENNIS RAY -ESTATE-
5713 S HWY 1651
PINE KNOT KY 42635

PINE KNOT JOB CORPS CIVILIAN CONSERVATION CENTER
132 JOB CORP RD
PINE KNOT, KY 42635

HARDWICK CASSIE
5713 S HWY 1651
PINE KNOT KY 42635

STEPHENS JAMES E -ESTATE-
C/O DAVIS ELIZABETH A
1319 S 11TH ST #101
PORT ARANSAS TX 78373

7017 0190 0000 9587 5629

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total \$

Post: **PATTON CAROLYN S & STANLEY JR**
3226 HWY 92 W
STEARNS KY 42647

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



7017 0190 0000 9587 5843

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total \$

Post: **HAMBY BENNY K**
PO BOX 285
PINE KNOT KY 42635

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



7017 0190 0000 9587 6178

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total \$

Post: **GRUNDY JULIA & MICHAEL**
PO BOX 103
REVELO KY 42638

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



7017 0190 0000 9587 6185

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total \$

Post: **GRUNDY JULIA & MICHAEL EDWARD**
PO BOX 103
REVELO KY 42638

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



7017 0190 0000 9587 6154

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total \$

Post: **DAUGHERTY LOTTIE CATHERINE**
REVOCABLE LIVING TRUST
PO BOX 548
PINE KNOT KY 42635

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



7017 0190 0000 9587 6161

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$

Total \$

Post: **GRUNDY MICHAEL EDWARD & JULIA ANN**
PO BOX 103
REVELO KY 42638

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



7017 0190 0000 9587 6130

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

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



Postage \$

Total \$

To: PINE KNOT CEMETERY KY 40165
6519 STATE HIGHWAY 1651
PINE KNOT, KENTUCKY, 42635

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

7017 0190 0000 9587 6147

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

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



Postage \$

Total \$

To: CRAWFORD MICHAEL E & VICKY D KY 40165
5901 S HWY 1651
PINE KNOT KY 42635

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

7017 0190 0000 9587 6499

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Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



Postage \$

Total \$

To: STEPHENS ALISON T KY 40165
5676 S HWY 1651
PINE KNOT KY 42635

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

7017 0190 0000 9587 5836

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



Postage \$

Total \$

To: BUTLER LANA KAY KY 40165
5760 S HWY 1651
PINE KNOT KY 42635

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

7017 0190 0000 9587 6482

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



Postage \$

Total \$

To: RYAN ALBERT J & MARCELA ESTATE- KY 40165
403 PROMISE LN
ELIZABETHTOWN KY 42701-6467

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

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



Postage \$

Total \$

To: LEWIS JOYCE KY 42647
PO BOX 88
STEARNS KY 42647

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

7017 0190 0000 9587 6468

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



WATERS LISA
5713 S HWY 1651
PINE KNOT KY 42635

7017 0190 0000 9587 6475

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Return Receipt (electronic) \$

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Adult Signature Restricted Delivery \$



VANOVER JAMES R
PO BOX 631
STEARNS KY 42647

7017 0190 0000 9587 5942

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Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



HARDWICK CASSIE
5713 S HWY 1651
PINE KNOT KY 42635

7017 0190 0000 9587 6451

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Adult Signature Required \$

Adult Signature Restricted Delivery \$



WINCHESTER HAZEL
PO BOX 154
PINE KNOT KY 42635

7017 0190 0000 9587 5959

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

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STEPHENS JAMES E - ESTATE -
C/O DAVIS ELIZABETH A
1319 S 11TH ST #101
PORT ARANSAS TX 78373

7017 0190 0000 9587 5928

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Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$



HARDWICK DENNIS RAY -
ESTATE -
5713 S HWY 1651
PINE KNOT KY 42635

7017 0190 0000 9587 5935

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$



To: PINE KNOT JOB CORPS CIVILIAN
CONSERVATION CENTER KY 40165
132 JOB CORP RD
PINE KNOT, KY 42635

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

7017 0190 0000 9587 6123

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

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$



To: SOUTH MCCREARY FIRE DEPT
P.O. BOX 549
PINE KNOT KY 42635

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

7017 0190 0000 9587 5966

U.S. Postal Service™
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Certified Mail Fee \$

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

Return Receipt (hardcopy) \$

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$



To: Jimmie W. Greene, II
County Judge Executive
P. O. Box 579
1 North Main Street
Whitley City, KY 42653

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

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: Pine Knot Relo**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure 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 5787 S. Hwy 1651, Pine Knot, KY 42635 (36° 39' 54.68" North latitude, 84° 26' 54.71" West longitude). The proposed facility will include a 250-foot tall tower, with an approximately 8-foot tall lightning arrestor attached at the top, for a total height of 258-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 2022-00116 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

1. Beginning at 1 North Main Street, Whitley City, KY 42653, head south on State Hwy 1651 toward Court Street-Geary Ave / Gary Street and travel approximately 259 feet.
2. Turn left at the first cross street onto Court Street-Geary Ave / Gary Street and travel approximately 495 feet.
3. Turn right onto US-27 S and travel approximately 4.0 miles.
4. Turn right onto Job Corp Road and travel approximately 0.5 miles.
5. Turn right onto Pine Knot Cemetery Road and travel approximately 0.2 miles.
6. Turn right onto State Hwy 1651 and travel approximately 217 feet.
7. The site is located on the right at 5787 State Hwy 1651, Pine Knot, KY 42635.
8. The site coordinates are:
 - a. North 36 deg 39 min 54.68 sec
 - b. West 84 deg 26 min 54.71 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 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

Jimmie W. Greene, II
County Judge Executive
P. O. Box 579
1 North Main Street
Whitley City, KY 42653

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2022-00116
Site Name: Pine Knot Relo

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure 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 5787 S. Hwy 1651, Pine Knot, KY 42635 (36° 39' 54.68" North latitude, 84° 26' 54.71" West longitude). The proposed facility will include a 250-foot tall tower, with an approximately 258-foot tall lightning arrester attached at the top, for a total height of 8-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

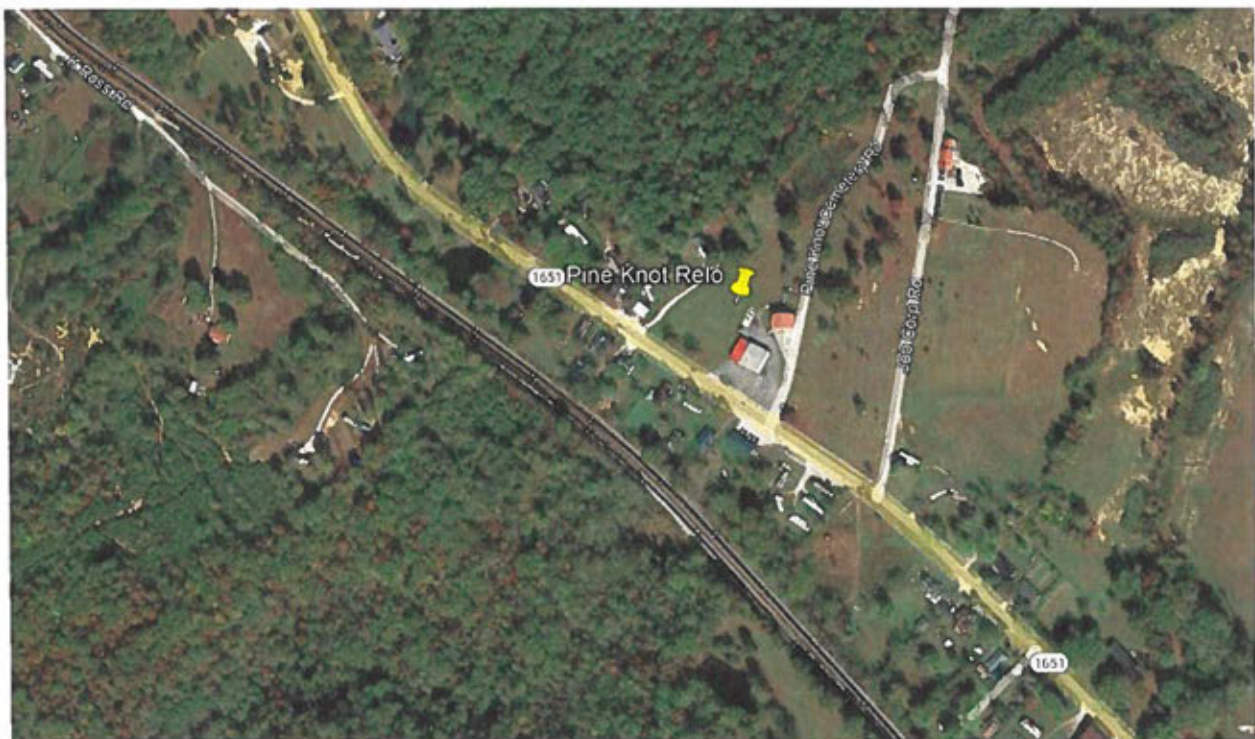
You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00116 in any 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.

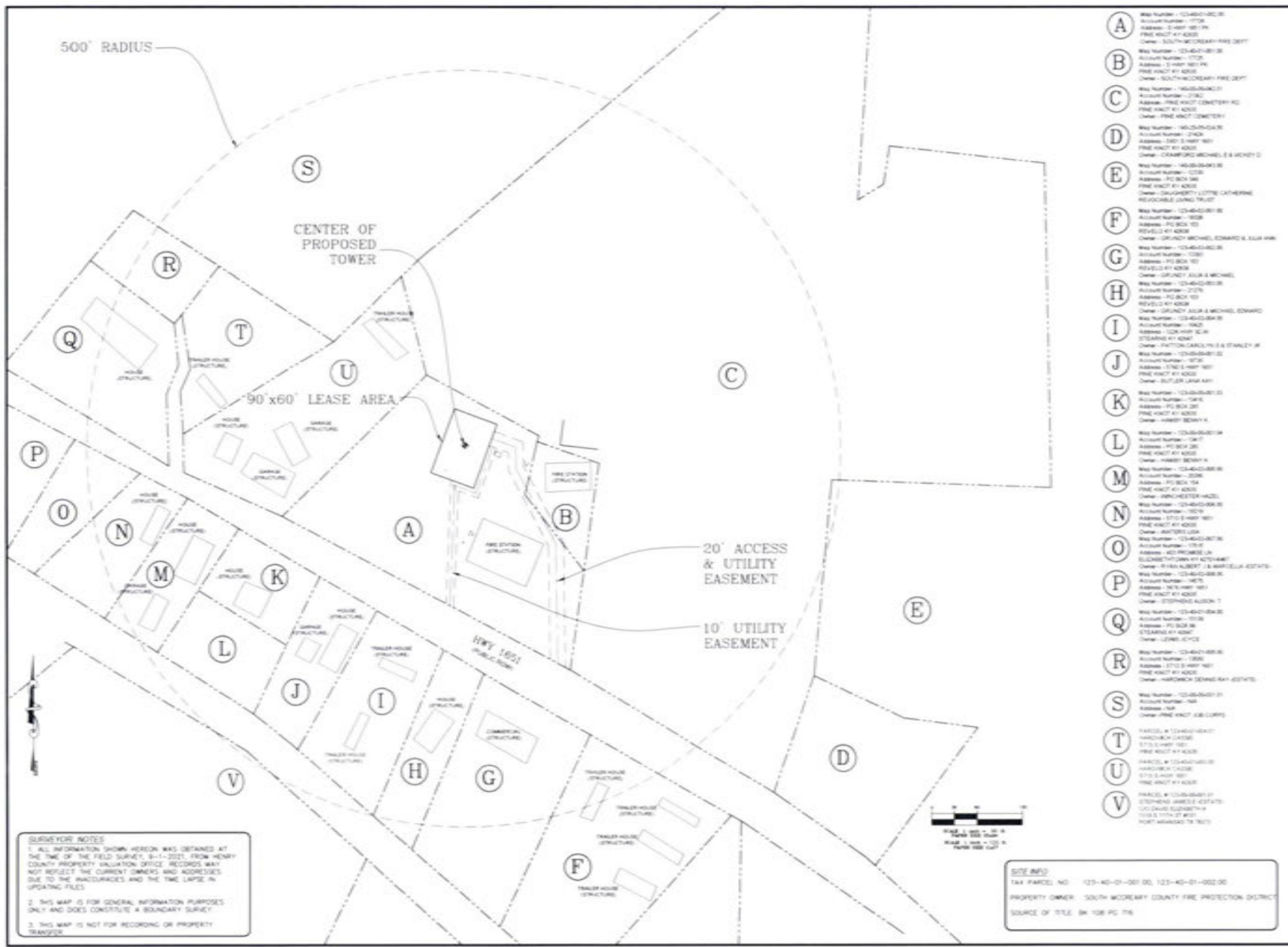
Sincerely,
David A. Pike
Attorney for Applicants
enclosures

Driving Directions to Proposed Tower Site

1. Beginning at 1 North Main Street, Whitley City, KY 42653, head south on State Hwy 1651 toward Court Street-Geary Ave / Gary Street and travel approximately 259 feet.
2. Turn left at the first cross street onto Court Street-Geary Ave / Gary Street and travel approximately 495 feet.
3. Turn right onto US-27 S and travel approximately 4.0 miles.
4. Turn right onto Job Corp Road and travel approximately 0.5 miles.
5. Turn right onto Pine Knot Cemetery Road and travel approximately 0.2 miles.
6. Turn right onto State Hwy 1651 and travel approximately 217 feet.
7. The site is located on the right at 5787 State Hwy 1651, Pine Knot, KY 42635.
8. The site coordinates are:
 - a. North 36 deg 39 min 54.68 sec
 - b. West 84 deg 26 min 54.71 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



- (A) Map Number: 12-04-01-001-01
Account Number: 1708
Address: 11 HAY 161 PI
PINE HUNT #14 4000
Owner: SOUTH MCCREARY FIRE DEPT
- (B) Map Number: 12-04-01-001-02
Account Number: 1708
Address: 11 HAY 161 PI
PINE HUNT #14 4000
Owner: SOUTH MCCREARY FIRE DEPT
- (C) Map Number: 12-04-01-001-03
Account Number: 1708
Address: 11 HAY 161 PI
PINE HUNT #14 4000
Owner: PINE HUNT CEMETERY FC
- (D) Map Number: 14-02-00-041-01
Account Number: 1204
Address: 1501 S HAY 161
PINE HUNT #14 4000
Owner: CAMFORD MICHELLE & MICKEY D
- (E) Map Number: 14-02-00-041-02
Account Number: 1204
Address: PO BOX 58
PINE HUNT #14 4000
Owner: GAUGHERTY LOTTE CATHERINE
REVOCABLE LIVING TRUST
- (F) Map Number: 12-04-01-001-04
Account Number: 1628
Address: PO BOX 711
REVELS #14 4000
Owner: GRUNDY MICHEL EDWARD & ALVA ANN
- (G) Map Number: 12-04-01-001-05
Account Number: 1628
Address: PO BOX 711
REVELS #14 4000
Owner: GRUNDY ALVA & MICHEL
- (H) Map Number: 12-04-01-001-06
Account Number: 1628
Address: PO BOX 711
REVELS #14 4000
Owner: GRUNDY ALVA & MICHEL EDWARD
- (I) Map Number: 12-04-01-001-07
Account Number: 1628
Address: 128 HAY 161 PI
STEAMING #14 4000
Owner: PATTON CAROL M & STANLEY W
- (J) Map Number: 12-04-01-001-08
Account Number: 1628
Address: 11 HAY 161 PI
PINE HUNT #14 4000
Owner: BUTLER JANA ANN
- (K) Map Number: 12-04-01-001-09
Account Number: 1628
Address: PO BOX 281
PINE HUNT #14 4000
Owner: HUBERT BERRY S
- (L) Map Number: 12-04-01-001-10
Account Number: 1628
Address: PO BOX 281
PINE HUNT #14 4000
Owner: HUBERT BERRY S
- (M) Map Number: 12-04-01-001-11
Account Number: 1628
Address: PO BOX 174
PINE HUNT #14 4000
Owner: BRICKER KEVIN AZELL
- (N) Map Number: 12-04-01-001-12
Account Number: 1628
Address: 1713 S HAY 161
PINE HUNT #14 4000
Owner: ABUTER ALVA
- (O) Map Number: 12-04-01-001-13
Account Number: 1628
Address: 401 PRIME LN
ELKHARTOWN KY 40524-0447
Owner: RYAN ALBERT & MARCELIA ESTYNE
- (P) Map Number: 12-04-01-001-14
Account Number: 1628
Address: 3676 HAY 161
PINE HUNT #14 4000
Owner: STEPHEN ALLEN T
- (Q) Map Number: 12-04-01-001-15
Account Number: 1628
Address: PO BOX 88
STEAMING #14 4000
Owner: LORNE KYTIC
- (R) Map Number: 12-04-01-001-16
Account Number: 1628
Address: 1713 S HAY 161
PINE HUNT #14 4000
Owner: HARTDORF SHERYL ANN ESTYNE
- (S) Map Number: 12-04-01-001-17
Account Number: 1628
Address: 704
PINE HUNT #14 4000
Owner: PINE HUNT JAB LOUIS
- (T) PARCEL # 12-04-01-001-18
Account Number: 1628
Address: 1713 S HAY 161
PINE HUNT #14 4000
- (U) PARCEL # 12-04-01-001-19
Account Number: 1628
Address: 1713 S HAY 161
PINE HUNT #14 4000
- (V) PARCEL # 12-04-01-001-20
Account Number: 1628
Address: 1713 S HAY 161
PINE HUNT #14 4000

SURVEYOR NOTES

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED AT THE TIME OF THE FIELD SURVEY, 8-11-2021, FROM HENRY COUNTY PROPERTY VALUATION OFFICE RECORDS. RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND THE TIME LAPSE IN UPDATING FILES.
2. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.
3. THIS MAP IS NOT FOR RECORDING OR PROPERTY TRANSFER.

SITE INFO

TAX PARCEL NO: 12-40-01-001-00, 12-40-01-002-00

PROPERTY OWNER: SOUTH MCCREARY COUNTY FIRE PROTECTION DISTRICT

SOURCE OF TITLE: BK 108 PG 716

1841 PINE GLEN
BARNESVILLE, KY 40303
TEL: 606-338-1111
FAX: 606-338-1111
www.westchesterservices.com

DUVE CONSULTING SERVICES
1001 DUKES RD - HENRY COUNTY, KY

PREP BY:	NO.

CHECKED BY:	NO.

REV.	DATE	DESCRIPTION
1	10.22.2021	REVISED
2	2.14.2022	CLIENT COMMENTS

15612904
1714
TLOPP-18773
SITE NAME

1716 ADDRESS
5787 S. HWY 1601
PINE HUNT, KY 42635
MCCREARY COUNTY

500' RADIUS
&
ABUTER'S MAP

SHEET NUMBER
B-2

**EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT**

SITE NAME: PINE KNOT RELO
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 Tillman Infrastructure 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 2022-00116 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure 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 2022-00116 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 FAX: (606) 376-8609
VIA EMAIL: susie@tmcvoice.com

McCreary County Voice
P.O. Box 190
Whitley City, KY 42653

RE: Legal Notice Advertisement
Site Name: Pine Knot Relo

Dear McCreary County Voice:

Please publish the following legal notice advertisement in the next edition of *The McCreary County Voice*:

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Tillman Infrastructure 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 5787 S. Hwy 1651, Pine Knot, KY 42635 (36° 39' 54.68" North latitude, 84° 26' 54.71" 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 2022-00116 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

