

**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,)	
AND TILLMAN INFRASTRUCTURE LLC, A DELAWARE)	
LIMITED LIABILITY COMPANY)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2024-00284
CONVENIENCE AND NECESSITY TO CONSTRUCT)	
A WIRELESS COMMUNICATIONS FACILITY)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF GRAYSON)	

SITE NAME: FALLING BRANCH

* * * * *

**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, 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 site location discussed in this application is proposed as a result of a hearing held on July 27, 2023 and an informal conference held on August 28, 2023, in case number 2021-00398. In compliance with the PSC's order dated April 12, 2024, in case number 2021-00398, the record from case number 2021-00398 is hereby incorporated into the record for this case. The proposed site location reflects the Applicants' attempts to be responsive to the intervenors while still providing needed wireless coverage in this portion of Grayson County. The proposed site location is approximately 240 feet further from the Intervenor's residence than the original site location.

2. The complete names and addresses of the Applicants are: New Cingular Wireless PCS, LLC, having an address of 534 Armory Place, Louisville, Kentucky 40202 and Tillman Infrastructure LLC, having an address of 152 W 57th Street, New York, NY 10019. New Cingular Wireless PCS, LLC markets and provides wireless services under AT&T branding.

3. 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.

4. New Cingular Wireless PCS, LLC is a limited liability company organized in the State of Delaware on October 20, 1994. New Cingular Wireless PCS, LLC's Certificate of Good standing issued by the State of Delaware is attached as part of **Exhibit A** and is hereby incorporated by reference.

5. Tillman Infrastructure LLC is a limited liability company organized in the State of Delaware on June 13, 2016. Tillman Infrastructure LLC's Certificate of Good standing issued by the State of Delaware is attached as part of **Exhibit A** and is hereby incorporated by reference.

6. 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. Copies of the Applicants' Certificate of Authorization issued by the Kentucky Secretary of State are attached as part of Exhibit A and are hereby incorporated by reference.

7. New Cingular Wireless PCS, LLC operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. Copies of New Cingular Wireless PCS, LLC'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.

8. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve New Cingular Wireless PCS, LLC's services to an area currently not served or not adequately served by New Cingular Wireless PCS, LLC 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 New Cingular Wireless PCS, LLC'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 New Cingular Wireless PCS, LLC's network design that must be in place to provide adequate

coverage to the service area. A particular feature of the improved service of the proposed site is that it will improve service for boaters and other persons in the popular Rough River Lake recreation area.

9. To address the above-described service needs, Applicants propose to construct a WCF at 2589 Blue Bird Road, Falls of Rough, KY 40119 (37° 35' 46.17" North latitude, 86° 29' 26.44" 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 Terry L. Newton and Kimberly D. Newton pursuant to a deed recorded at Deed Book 444, Page 461 in the office of the County Clerk. The proposed WCF will consist of a 108-foot tall monopole tower, with an approximately 3-foot tall lightning arrestor attached at the top, for a total height of 111-feet. The original proposed site in case number 2021-00398 was a 145-foot tall self-support tower, with an approximately 4-foot tall lightning arrestor attached at the top, for a total height of 149-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of radio electronics equipment and appurtenant equipment. The equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

10. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.

11. The site development plan and a vertical profile sketch of the WCF signed

and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of New Cingular Wireless PCS, LLC has also been included as part of **Exhibit B**.

12. 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**.

13. 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 New Cingular Wireless LLC's antennas on an existing structure. When suitable towers or structures exist, New Cingular Wireless LLC attempts to co-locate on existing structures such as communications towers or other structures capable of supporting New Cingular Wireless LLC's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

14. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.

15. A copy of the approval issued by the Kentucky Airport Zoning Commission ("KAZC") is attached as **Exhibit F**.

16. 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.

17. 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.

18. Tillman Infrastructure, LLC, pursuant to a written agreement and subsequent amendments, has acquired the right to use the WCF site and associated property rights. Copies of the agreements are attached as **Exhibit I**.

19. 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.

20. 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**.

21. 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.

22. **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). The list of owners has been appropriately updated since case number 2021-00398. 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**.

23. Applicants have sent notice letters to every person who, according to the records of the County Property Valuation Administrator (“PVA”), owns property which is within 500 feet of the proposed tower or contiguous to the site property. The list of adjoining landowners has been updated since case number 2021-00398, and new letters have been sent. The letters were sent by certified mail, return receipt requested and included a description of the proposed construction. Within each mailing, notified property owners were sent 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.

24. Copies of the Grayson County PVA records obtained prior to mailing (and re-verified on November 19, 2024) and used to generate the notice list are attached as part of **Exhibit J**.

25. Nine notice letters were sent to the landowners on the notice list at the mailing addresses shown on the County’s PVA records. Copies of the “Certified Mail Receipts” confirming the date on which the letters were sent are attached as part of **Exhibit J**.

26. To date, six signed United States Postal Service Form 3811 “green cards” have been returned. Copies of the returned “green cards” are attached as a part of **Exhibit J**. Three notice letters have been returned, and copies of the returned letters are attached as part of **Exhibit J**. There are no unaccountable notices.

27. 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 right to request intervention. A copy of this notice is attached as **Exhibit L**. A copy of the “Certified Mail Receipt” and a copy of the USPS Form 3811 “green card” for this mailing are also attached as part of **Exhibit L**.

28. 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 will be published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the text of the newspaper legal notice advertisement is attached as part of **Exhibit M**.

29. The general area where the proposed facility is to be located is rural in character. The area where the proposed tower will be located is heavily wooded. The site parcel is used for residential and agricultural purposes.

30. The process that was used by New Cingular Wireless LLC'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 with the exception that the site was re-located on the site parcel in response to opposition from intervening landowners. The new proposed site is approximately 240 feet further from the Intervenor's residence than the original proposed site. New Cingular Wireless LLC'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 New Cingular Wireless LLC's radio frequency engineers. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit N**.

31. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area.

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

33. All responses and requests associated with this Application may be directed

to:

David A. Pike
F. Keith Brown
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
kbrown@pikelegal.com

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

Respectfully submitted,



David A. Pike

and



F. Keith Brown

Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
kbrown@pikelegal.com
Attorneys for Applicants

LIST OF EXHIBITS

- A - Corporate Documentation & 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
 - Construction Manager Letter
 - List of Qualified Professionals
 - Fall Zone Letter
 - Tower and Foundation Drawings
- D - Competing Utilities, Corporations, or Persons List
- E - FAA
- F - Kentucky Airport Zoning Commission
- G - Geotechnical Report
- H - Directions to WCF Site
- I - Copy of Real Estate Agreement
- J - Notification Listing, PVA Records & Proof of Notice
- K - Copy of Property Owner Notification
- L - Copy of County Judge/Executive Notice & Proof of Notice
- M - Copy of Posted Notices and Newspaper Notice Advertisement
- N - Copy of Radio Frequency Design Search Area

EXHIBIT A

**CORPORATE DOCUMENTATION &
FCC LICENSE DOCUMENTATION**

Delaware

Page 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "NEW CINGULAR WIRELESS PCS, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TWELFTH DAY OF APRIL, A.D. 2024.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "NEW CINGULAR WIRELESS PCS, LLC" WAS FORMED ON THE TWENTIETH DAY OF OCTOBER, A.D. 1994.

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



2445544 8300

SR# 20241423461

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

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

Authentication: 203243800

Date: 04-12-24

Commonwealth of Kentucky
Michael G. Adams, Secretary of State

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

Certificate of Authorization

Authentication number: 307635

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

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

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 21st day of March, 2024, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
307635/0481848

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "TILLMAN INFRASTRUCTURE LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE EIGHTEENTH DAY OF NOVEMBER, A.D. 2024.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "TILLMAN INFRASTRUCTURE LLC" WAS FORMED ON THE THIRTEENTH DAY OF JUNE, A.D. 2016.

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




Jeffrey W. Bullock, Secretary of State

6067508 8300

SR# 20244241855

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

Authentication: 204899698

Date: 11-18-24

Commonwealth of Kentucky
Michael G. Adams, Secretary of State

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

Certificate of Authorization

Authentication number: 322868

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

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

TILLMAN INFRASTRUCTURE 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 September 27, 2017.

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 14th day of November, 2024, in the 233rd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
322868/0998026

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: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Call Sign KNKN748	File Number
Radio Service CL - Cellular	
Market Numer CMA445	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 3 - Meade
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Grant Date 09-08-2021	Effective Date 01-23-2024	Expiration Date 10-01-2031	Five Yr Build-Out Date	Print Date
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	36-49-19.8 N	086-40-30.2 W	283.5	59.4	1043423

Address: 2070 PILOT KNOB CELL ROAD (76159)

City: FRANKLIN **County:** SIMPSON **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)	149.700	154.000	142.400	134.600	134.000	144.000	132.800	132.800
Transmitting ERP (watts)	127.704	122.022	156.166	85.681	30.393	22.550	27.951	41.372

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)	149.700	154.000	142.400	134.600	134.000	144.000	132.800	132.800
Transmitting ERP (watts)	0.303	19.967	70.900	141.164	91.184	151.327	56.166	39.846

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)	149.700	154.000	142.400	134.600	134.000	144.000	132.800	132.800
Transmitting ERP (watts)	165.855	47.655	35.065	13.085	19.027	126.639	254.086	264.756

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: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	36-47-00.6 N	086-17-12.4 W	242.6	109.4	1043428

Address: 6131 Bowling Green Road (76163)

City: Scottsville County: ALLEN 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)	172.400	151.800	131.600	118.100	137.600	143.600	150.000	172.700
Transmitting ERP (watts)	29.587	17.631	2.143	0.106	0.120	0.108	1.702	15.717

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)	172.400	151.800	131.600	118.100	137.600	143.600	150.000	172.700
Transmitting ERP (watts)	0.567	8.309	54.332	71.176	21.736	1.489	0.142	0.158

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)	172.400	151.800	131.600	118.100	137.600	143.600	150.000	172.700
Transmitting ERP (watts)	0.270	0.100	0.100	0.719	8.327	27.930	25.164	4.852

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-57-06.1 N	086-24-38.3 W	260.0	96.3	1043429

Address: HWY 144 (76157)

City: UNION STAR County: BRECKINRIDGE 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)	163.100	141.100	130.700	148.200	162.700	183.900	186.100	179.000
Transmitting ERP (watts)	60.057	209.658	152.570	20.969	2.687	0.418	0.941	4.434

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)	163.100	141.100	130.700	148.200	162.700	183.900	186.100	179.000
Transmitting ERP (watts)	0.489	0.727	12.997	103.833	245.059	92.615	9.426	2.404

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)	163.100	141.100	130.700	148.200	162.700	183.900	186.100	179.000
Transmitting ERP (watts)	45.626	4.863	1.713	0.627	1.375	31.023	156.388	214.520

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-14-22.1 N	086-15-59.7 W	229.8	123.4	1025100

Address: 1400 POPLAR SPRINGS RD. (76169)

City: BROWNSVILLE County: EDMONSON 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)	150.600	151.200	130.600	151.300	175.800	170.100	181.100	173.000
Transmitting ERP (watts)	52.262	182.266	132.676	18.211	2.334	0.364	0.819	3.844

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)	150.600	151.200	130.600	151.300	175.800	170.100	181.100	173.000
Transmitting ERP (watts)	0.425	0.633	11.292	90.388	212.968	80.505	8.178	2.094

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)	150.600	151.200	130.600	151.300	175.800	170.100	181.100	173.000
Transmitting ERP (watts)	39.661	4.221	1.487	0.543	1.196	26.979	135.691	186.462

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-52-17.8 N	086-16-03.5 W	224.3	152.1	1043896

Address: SAM DOWELL ROAD (76182)

City: IRVINGTON County: BRECKINRIDGE State: KY Construction Deadline: 07-23-2013

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)	121.400	111.900	93.000	94.700	111.800	114.200	143.100	107.600
Transmitting ERP (watts)	59.129	206.186	150.253	20.668	2.640	0.412	0.928	4.356

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)	121.400	111.900	93.000	94.700	111.800	114.200	143.100	107.600
Transmitting ERP (watts)	0.482	0.716	12.797	102.360	241.122	91.084	9.268	2.368

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)	121.400	111.900	93.000	94.700	111.800	114.200	143.100	107.600
Transmitting ERP (watts)	44.832	4.778	1.689	0.615	1.355	30.513	153.797	211.457

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	36-42-08.6 N	086-33-19.0 W	217.0	114.3	1200032

Address: 297A TURNER FORD ROAD (79470)

City: Franklin County: SIMPSON State: KY Construction Deadline: 07-23-2013

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)	115.100	113.900	95.200	90.700	79.000	97.800	103.600	98.200
Transmitting ERP (watts)	12.529	51.909	43.680	6.792	0.306	0.104	0.104	0.871

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)	115.100	113.900	95.200	90.700	79.000	97.800	103.600	98.200
Transmitting ERP (watts)	0.126	0.114	1.788	16.431	30.950	18.425	2.247	0.111

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)	115.100	113.900	95.200	90.700	79.000	97.800	103.600	98.200
Transmitting ERP (watts)	64.739	3.664	0.447	0.530	1.414	26.223	172.206	223.125

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-50-29.5 N	087-07-55.8 W	237.7	59.7	

Address: 360 C STOKES ROAD (76158)

City: ELKTON County: TODD State: KY Construction Deadline: 07-23-2013

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)	88.600	106.300	98.000	103.600	113.600	107.900	90.000	83.900
Transmitting ERP (watts)	59.416	267.210	296.881	53.793	5.846	1.888	1.202	3.110

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)	88.600	106.300	98.000	103.600	113.600	107.900	90.000	83.900
Transmitting ERP (watts)	0.355	2.851	12.889	51.983	75.907	82.466	21.953	4.744

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)	88.600	106.300	98.000	103.600	113.600	107.900	90.000	83.900
Transmitting ERP (watts)	62.796	11.059	4.662	1.147	2.477	23.358	65.087	76.580

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-14-33.4 N	087-19-57.9 W	128.6	96.9	1217687

Address: 1020 HENRY OATS ROAD (76201)

City: Graham County: MUHLENBERG State: KY Construction Deadline: 07-23-2013

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)	91.700	68.800	64.200	74.700	79.100	81.600	85.800	91.900
Transmitting ERP (watts)	35.026	195.687	216.768	54.685	2.636	0.432	0.445	1.843

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)	91.700	68.800	64.200	74.700	79.100	81.600	85.800	91.900
Transmitting ERP (watts)	0.121	0.121	2.272	26.014	60.527	29.180	2.862	0.121

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)	91.700	68.800	64.200	74.700	79.100	81.600	85.800	91.900
Transmitting ERP (watts)	35.896	3.378	0.159	0.237	0.301	5.075	44.704	79.171

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	37-04-12.2 N	086-05-07.1 W	198.1	99.1	1211505

Address: 622 CRUMP ROAD (37518)

City: Smiths Grove County: EDMONSON State: KY Construction Deadline: 07-23-2013

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	53.800	63.200	49.600	57.000	59.000	84.600	86.400	61.200
Transmitting ERP (watts)	27.629	87.373	66.058	8.970	0.709	0.175	0.179	3.181

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	53.800	63.200	49.600	57.000	59.000	84.600	86.400	61.200
Transmitting ERP (watts)	0.101	0.305	1.436	1.860	2.041	0.788	0.130	0.100

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	53.800	63.200	49.600	57.000	59.000	84.600	86.400	61.200
Transmitting ERP (watts)	0.192	0.100	0.160	0.224	1.075	2.050	1.930	1.184

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	37-29-36.0 N	086-11-16.5 W	221.9	83.8	1217206

Address: 694 BRATON ROAD (81461)

City: Clarkson County: GRAYSON State: KY Construction Deadline: 07-23-2013

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.400	66.200	82.600	83.200	92.600	111.600	90.000	105.400
Transmitting ERP (watts)	57.018	192.165	145.827	15.733	1.898	0.385	0.383	6.862

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.400	66.200	82.600	83.200	92.600	111.600	90.000	105.400
Transmitting ERP (watts)	0.252	0.276	8.928	64.700	126.176	53.814	5.506	0.302

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.400	66.200	82.600	83.200	92.600	111.600	90.000	105.400
Transmitting ERP (watts)	54.629	3.519	0.818	0.541	4.115	41.499	223.658	269.303

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	37-56-59.6 N	086-04-57.8 W	200.0	77.7	1230213

Address: 340 HAYES ROAD (37683)

City: Bradenburg County: MEADE State: KY Construction Deadline: 07-23-2013

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.400	108.200	75.400	73.700	40.000	69.400	81.900	112.400
Transmitting ERP (watts)	126.151	53.803	5.511	0.302	0.252	0.277	8.920	64.703

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.400	108.200	75.400	73.700	40.000	69.400	81.900	112.400
Transmitting ERP (watts)	0.293	3.183	18.727	24.271	10.402	0.832	0.126	0.180

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.400	108.200	75.400	73.700	40.000	69.400	81.900	112.400
Transmitting ERP (watts)	0.954	0.235	0.241	4.294	37.262	117.843	89.269	12.068

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	37-36-06.5 N	087-23-53.6 W	190.2	72.8	1049228

Address: 8720 STATE HIGHWAY 256 (100726)

City: Calhoun County: MCLEAN State: KY Construction Deadline: 07-23-2013

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)	132.100	127.700	130.400	139.700	139.200	127.700	123.000	127.400
Transmitting ERP (watts)	8.604	24.150	21.298	3.973	0.289	0.100	0.110	0.868

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)	132.100	127.700	130.400	139.700	139.200	127.700	123.000	127.400
Transmitting ERP (watts)	0.100	0.145	0.714	2.721	2.030	2.664	0.581	0.100

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)	132.100	127.700	130.400	139.700	139.200	127.700	123.000	127.400
Transmitting ERP (watts)	16.740	1.264	0.201	0.172	0.717	9.668	50.766	60.487

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	38-00-08.4 N	086-19-20.3 W	237.4	103.9	1049227

Address: 1002 Paynesville Rd (100721)

City: PAYNEVILLE County: MEADE State: KY Construction Deadline: 07-23-2013

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)	136.200	133.100	139.800	109.200	119.400	125.600	140.200	137.800
Transmitting ERP (watts)	80.625	243.519	176.744	18.512	1.434	0.489	0.488	6.707

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)	136.200	133.100	139.800	109.200	119.400	125.600	140.200	137.800
Transmitting ERP (watts)	0.510	0.882	16.525	137.024	255.663	104.000	5.452	1.040

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)	136.200	133.100	139.800	109.200	119.400	125.600	140.200	137.800
Transmitting ERP (watts)	49.820	2.170	0.508	0.496	2.867	39.546	197.992	232.753

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	36-47-11.0 N	086-08-35.3 W	253.3	91.1	1043039

Address: 3499 OLD GLASGOW ROAD (76160)

City: SCOTTSVILLE County: ALLEN State: KY Construction Deadline: 07-23-2013

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)	141.000	115.500	104.500	105.100	65.600	99.100	114.200	122.300
Transmitting ERP (watts)	69.057	33.233	3.269	0.138	0.138	0.139	2.591	29.564

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)	141.000	115.500	104.500	105.100	65.600	99.100	114.200	122.300
Transmitting ERP (watts)	0.695	10.164	66.502	87.307	26.647	1.827	0.175	0.193

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)	141.000	115.500	104.500	105.100	65.600	99.100	114.200	122.300
Transmitting ERP (watts)	0.331	0.100	0.100	0.877	10.209	34.235	30.831	5.937

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	36-59-46.4 N	087-08-24.4 W	253.3	84.7	1052933

Address: 14010 Greenville Rd (114156)

City: CLIFTY County: TODD State: KY Construction Deadline: 07-23-2013

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)	140.300	148.600	164.300	137.900	115.200	131.900	156.200	154.200
Transmitting ERP (watts)	90.933	49.427	5.614	0.231	0.294	0.248	4.251	44.027

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)	140.300	148.600	164.300	137.900	115.200	131.900	156.200	154.200
Transmitting ERP (watts)	1.696	31.376	206.048	266.811	77.333	4.381	0.534	0.634

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)	140.300	148.600	164.300	137.900	115.200	131.900	156.200	154.200
Transmitting ERP (watts)	0.365	0.124	0.124	1.043	14.987	62.052	52.143	8.124

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
48	36-39-29.0 N	087-10-56.1 W	168.9	46.9	

Address: 9141 Russellville Rd (116025)

City: Guthrie County: TODD State: KY Construction Deadline: 07-23-2013

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)	30.000	36.200	41.000	46.500	50.000	51.500	45.300	40.200
Transmitting ERP (watts)	83.826	171.373	91.533	10.341	0.391	0.553	0.470	7.798

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)	30.000	36.200	41.000	46.500	50.000	51.500	45.300	40.200
Transmitting ERP (watts)	39.359	3.884	0.163	0.164	0.163	3.073	35.149	81.833

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	36-49-53.1 N	086-54-51.9 W	253.9	87.8	1043422

Address: 374 SARAH CELL LANE (79468)

City: RUSSELLVILLE County: LOGAN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	147.800	136.900	122.800	139.500	151.400	149.000	137.200	143.600
Transmitting ERP (watts)	13.191	15.375	20.623	9.724	2.241	0.917	1.606	4.394

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	147.800	136.900	122.800	139.500	151.400	149.000	137.200	143.600
Transmitting ERP (watts)	0.302	19.944	70.809	141.157	91.158	151.443	56.229	39.824

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	147.800	136.900	122.800	139.500	151.400	149.000	137.200	143.600
Transmitting ERP (watts)	165.961	47.564	35.048	13.108	19.047	126.532	254.037	264.411

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-06-13.5 N	086-11-31.9 W	248.4	94.5	1043426

Address: HWY 31 W. 15.5 MILES NORTH OF BOWLING GREEN (76162)

City: BROWNSVILLE County: EDMONSON 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)	132.900	119.800	121.900	132.500	139.700	156.900	138.100	144.700
Transmitting ERP (watts)	76.433	61.831	10.136	0.490	0.153	0.153	1.751	22.332

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

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Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-06-13.5 N	086-11-31.9 W	248.4	94.5	1043426

Address: HWY 31 W. 15.5 MILES NORTH OF BOWLING GREEN (76162)

City: BROWNSVILLE County: EDMONSON State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.900	119.800	121.900	132.500	139.700	156.900	138.100	144.700
Transmitting ERP (watts)	0.140	2.140	18.403	33.047	18.411	2.087	0.101	0.132

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)	132.900	119.800	121.900	132.500	139.700	156.900	138.100	144.700
Transmitting ERP (watts)	0.717	0.100	0.100	0.363	4.848	26.904	32.711	9.981

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	37-59-01.3 N	086-09-28.7 W	201.5	81.1	1061285

Address: 754 HIGHWAY 448 (76175)

City: BRANDENBURG County: MEADE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.900	81.400	121.600	71.000	57.800	78.400	81.600	124.800
Transmitting ERP (watts)	127.297	121.679	155.422	85.508	30.247	22.406	27.837	41.126

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)	92.900	81.400	121.600	71.000	57.800	78.400	81.600	124.800
Transmitting ERP (watts)	0.549	6.006	49.925	208.129	273.538	212.776	43.513	17.704

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.900	81.400	121.600	71.000	57.800	78.400	81.600	124.800
Transmitting ERP (watts)	165.198	47.446	34.954	13.065	18.961	125.826	253.004	262.909

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	37-32-55.4 N	087-16-05.4 W	140.2	93.0	1244911

Address: 235 WEST KY 136 (76190)

City: CALHOUN County: MCLEAN 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)	93.700	104.200	101.700	109.900	107.300	112.600	113.000	103.500
Transmitting ERP (watts)	12.048	14.042	18.841	8.872	2.043	0.838	1.462	4.009

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	37-32-55.4 N	087-16-05.4 W	140.2	93.0	1244911

Address: 235 WEST KY 136 (76190)

City: CALHOUN County: MCLEAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.700	104.200	101.700	109.900	107.300	112.600	113.000	103.500
Transmitting ERP (watts)	0.263	1.499	8.907	25.402	25.096	29.869	6.908	2.214

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)	93.700	104.200	101.700	109.900	107.300	112.600	113.000	103.500
Transmitting ERP (watts)	13.485	2.840	1.968	1.182	1.861	9.279	14.950	16.111

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	37-23-57.3 N	087-14-11.0 W	142.6	66.4	1043462

Address: 1266 Coffman School House Road (114157)

City: Sacramento County: MCLEAN 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)	78.900	71.400	72.900	65.300	58.100	76.700	81.000	71.700
Transmitting ERP (watts)	167.796	70.666	5.756	0.746	0.337	0.392	10.993	84.493

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	71.400	72.900	65.300	58.100	76.700	81.000	71.700
Transmitting ERP (watts)	2.293	23.373	125.220	157.181	33.002	3.023	0.420	0.529

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	71.400	72.900	65.300	58.100	76.700	81.000	71.700
Transmitting ERP (watts)	1.557	0.314	0.315	5.633	46.706	157.098	119.251	12.856

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	36-44-32.4 N	087-03-22.0 W	177.4	60.7	

Address: 12442 Clarksville Rd (119164)

City: Olmstead County: LOGAN 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)	38.700	51.200	58.700	61.000	61.600	65.600	54.200	43.800
Transmitting ERP (watts)	213.908	284.249	320.934	124.084	41.802	16.187	21.717	47.543

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	36-44-32.4 N	087-03-22.0 W	177.4	60.7	

Address: 12442 Clarksville Rd (119164)

City: Olmstead County: LOGAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	38.700	51.200	58.700	61.000	61.600	65.600	54.200	43.800
Transmitting ERP (watts)	0.398	2.494	20.501	62.455	72.666	71.877	14.509	4.740
Antenna: 3								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	38.700	51.200	58.700	61.000	61.600	65.600	54.200	43.800
Transmitting ERP (watts)	70.857	7.567	2.665	0.972	2.148	48.281	243.184	333.088

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	36-44-33.6 N	086-30-05.7 W	209.4	74.7	1057217

Address: 680 Phillips Lane (37504)

City: Franklin County: SIMPSON 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)	86.700	76.200	71.800	57.600	57.100	67.700	72.000	80.500
Transmitting ERP (watts)	114.881	151.450	45.595	2.950	0.302	0.353	1.123	17.809
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)	86.700	76.200	71.800	57.600	57.100	67.700	72.000	80.500
Transmitting ERP (watts)	0.274	0.273	1.936	29.962	137.017	135.788	29.053	1.424
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)	86.700	76.200	71.800	57.600	57.100	67.700	72.000	80.500
Transmitting ERP (watts)	36.885	2.023	0.286	0.291	1.454	23.079	126.851	143.582

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	37-33-42.0 N	087-06-34.0 W	153.9	64.6	1043552

Address: 5020 HWY 431 (114800)

City: North Calhoun County: MCLEAN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.000	67.700	60.800	71.600	77.400	81.300	63.900	67.300
Transmitting ERP (watts)	158.393	151.166	193.708	106.192	37.702	27.960	34.683	51.309

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	37-33-42.0 N	087-06-34.0 W	153.9	64.6	1043552

Address: 5020 HWY 431 (114800)

City: North Calhoun County: MCLEAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.000	67.700	60.800	71.600	77.400	81.300	63.900	67.300
Transmitting ERP (watts)	0.579	17.567	97.454	288.731	259.116	288.697	84.790	47.492
Antenna: 3								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.000	67.700	60.800	71.600	77.400	81.300	63.900	67.300
Transmitting ERP (watts)	225.807	88.641	98.488	33.766	42.937	203.385	284.088	256.109

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	37-53-45.0 N	086-49-51.0 W	164.5	65.6	1043711

Address: OLD LEWISPORT OWENSBORO RD (118228)

City: HAWESVILLE County: HANCOCK State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.400	84.300	98.800	62.900	81.500	94.100	95.600	100.200
Transmitting ERP (watts)	145.138	138.457	177.189	97.486	34.591	25.653	31.702	46.927
Antenna: 2								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.400	84.300	98.800	62.900	81.500	94.100	95.600	100.200
Transmitting ERP (watts)	0.626	6.840	56.877	237.296	312.736	242.992	49.505	20.160
Antenna: 3								
Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	89.400	84.300	98.800	62.900	81.500	94.100	95.600	100.200
Transmitting ERP (watts)	206.536	81.243	90.088	30.991	39.380	186.420	259.807	234.243

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-56-52.0 N	085-59-37.8 W	221.0	59.4	1204254

Address: 115 Timber Court (37606)

City: Muldraugh County: MEADE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	113.300	99.300	64.300	63.500	56.300	78.500	87.900
Transmitting ERP (watts)	4.679	4.917	0.983	0.100	0.100	0.100	0.100	1.023

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-56-52.0 N	085-59-37.8 W	221.0	59.4	1204254

Address: 115 Timber Court (37606)

City: Muldraugh County: MEADE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	113.300	99.300	64.300	63.500	56.300	78.500	87.900
Transmitting ERP (watts)	0.100	0.100	0.790	17.085	30.505	3.551	0.100	0.100

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	113.300	99.300	64.300	63.500	56.300	78.500	87.900
Transmitting ERP (watts)	0.100	0.100	0.100	0.309	10.332	36.527	6.709	0.159

Control Points:

Control Pt. No. 1

Address: 1650 Lyndon Farms Court

City: LOUISVILLE County: State: KY Telephone Number: (502)329-4700

Waivers/Conditions:

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).

ULS Application

Cellular - 0010868312 - NEW CINGULAR WIRELESS PCS, LLC

File Number	0010868312	Radio Service	CL - Cellular
Call Sign	KNKN748	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	01/22/2024	Action Date	01/23/2024
Entered Date	01/22/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	CMA445 - Kentucky 3 - Meade	Channel Block	A
Submarket Designator	0	Phase	2

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	NEW CINGULAR WIRELESS PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC	P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (KNLG209), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

NONE

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLG209

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873547 - New Cingular Wireless PCS, LLC

File Number	0010873547	Radio Service	CW - PCS Broadband
Call Sign	KNLGG209	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Emergency STA	
Existing Radio Service			
Authorization Type	Regular		
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	BTA263 - Louisville, KY	Channel Block	D
Submarket Designator	0	Associated Frequencies (MHz)	001865.00000000- 001870.00000000- 001945.00000000- 001950.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC	P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with 2 columns: Call Sign (KNLG909), File Number, and Radio Service (CW - PCS Broadband)

FCC Registration Number (FRN): 0003291192

Table with 4 columns: Grant Date (07-25-2017), Effective Date (01-24-2024), Expiration Date (08-21-2027), Print Date, Market Number (BTA052), Channel Block (F), Sub-Market Designator (0), Market Name (Bowling Green-Glasgow, KY), 1st Build-out Date (08-21-2002), 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

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

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.716 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

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: KNLG909

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).

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: KNLG909

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873688 - NEW CINGULAR WIRELESS PCS, LLC

File Number	0010873688	Radio Service	CW - PCS Broadband
Call Sign	KNLG909	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	BTA052 - Bowling Green-Glasgow, KY	Channel Block	F
Submarket Designator	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000-001970.00000000-001975.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	NEW CINGULAR WIRELESS PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (KNLH406), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

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

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.

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH406

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873310 - New Cingular Wireless PCS, LLC

File Number	0010873310	Radio Service	CW - PCS Broadband
Call Sign	KNLH406	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Emergency STA	
Existing Radio Service			
Authorization Type	Regular		
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	BTA338 - Owensboro, KY	Channel Block	D
Submarket Designator	0	Associated Frequencies (MHz)	001865.00000000- 001870.00000000- 001945.00000000- 001950.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC	P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (WPOI255), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

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

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.

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPO1255

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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Reference Copy

ULS Application

PCS Broadband - 0010873347 - NEW CINGULAR WIRELESS PCS, LLC

File Number	0010873347	Radio Service	CW - PCS Broadband
Call Sign	WPOI255	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Emergency STA	
Existing Radio Service			
Authorization Type	Regular		
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket Designator	19	Associated Frequencies (MHz)	001850.00000000-001865.00000000-001930.00000000-001945.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	NEW CINGULAR WIRELESS PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with 2 columns: Call Sign (WPTJ404), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

This 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 # 0001918563.

The Spectrum Leasing Arrangement, which became effective upon approval of application file number 0001918563, was terminated on 04/14/2005. See file number 0002135370.

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPTJ404

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).

Reference Copy

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPTJ404

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873385 - NEW CINGULAR WIRELESS PCS, LLC

File Number	0010873385	Radio Service	CW - PCS Broadband
Call Sign	WPTJ404	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Existing Radio Service	
Authorization Type	Regular	Emergency STA	
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	BTA338 - Owensboro, KY	Channel Block	C
Submarket Designator	7	Associated Frequencies (MHz)	001895.00000000- 001910.00000000- 001975.00000000- 001990.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	NEW CINGULAR WIRELESS PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (WQGA817), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGA817

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

AWS (1710-1755 MHz and 2110-2155 MHz) - 0010867607 - New Cingular Wireless PCS, LLC

File Number	0010867607	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGA817	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	01/22/2024	Action Date	01/23/2024
Entered Date	01/22/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	CMA446 - Kentucky 4 - Spencer	Channel Block	A
Submarket Designator	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000-002110.00000000-002120.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (WQGA818), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003291192

Table with columns: Grant Date (11-16-2021), Effective Date (01-23-2024), Expiration Date (11-29-2036), Print Date, 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.

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: WQGA818

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

AWS (1710-1755 MHz and 2110-2155 MHz) - 0010867608 - New Cingular Wireless PCS, LLC

File Number	0010867608	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGA818	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update		
Existing Radio Service			
Authorization Type	Regular	Emergency STA	
Receipt Date	01/22/2024	Action Date	01/23/2024
Entered Date	01/22/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	CMA447 - Kentucky 5 - Barren	Channel Block	A
Submarket Designator	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000-002110.00000000-002120.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (WQGD546), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

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

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD546

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

AWS (1710-1755 MHz and 2110-2155 MHz) - 0010867653 - New Cingular Wireless PCS, LLC

File Number	0010867653	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGD546	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update		
Existing Radio Service		Emergency STA	
Authorization Type	Regular	Action Date	01/23/2024
Receipt Date	01/22/2024	Requested Expiration Date	
Entered Date	01/22/2024	Number of Rules	
Waiver	No	Grandfathered Privileges	
Attachments		Regulatory Fee Exempt	No
Application Fee Exempt	No	Major Request	

Market Data

Market	CMA445 - Kentucky 3 - Meade	Channel Block	A
Submarket Designator	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000-002110.00000000-002120.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with 2 columns: Call Sign (WRWF326), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

Table with 4 columns: Grant Date (09-23-2022), Effective Date (01-24-2024), Expiration Date (06-23-2025), Print Date, Market Number (MTA026), Channel Block (A), Sub-Market Designator (26), Market Name (Louisville-Lexington-Evansville), and 4 Build-out Date columns.

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: WRWF326

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873499 - New Cingular Wireless PCS, LLC

File Number	0010873499	Radio Service	CW - PCS Broadband
Call Sign	WRWF326	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Existing Radio Service	
Authorization Type	Regular	Emergency STA	
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket Designator	26	Associated Frequencies (MHz)	001850.00000000-001865.00000000-001930.00000000-001945.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with Call Sign (WRWF327), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WRWF327

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873709 - New Cingular Wireless PCS, LLC

File Number	0010873709	Radio Service	CW - PCS Broadband
Call Sign	WRWF327	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Emergency STA	
Existing Radio Service			
Authorization Type	Regular		
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket Designator	28	Associated Frequencies (MHz)	001850.00000000-001865.00000000-001930.00000000-001945.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 E:FCCMW@att.com
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: NATIONAL REGULATORY COMPLIANCE
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST, 20F
DALLAS, TX 75202

Table with 2 columns: Call Sign (WQNE326), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

Table with 4 columns: Grant Date (06-05-2015), Effective Date (01-24-2024), Expiration Date (06-23-2025), Print Date, Market Number (MTA026), Channel Block (B), Sub-Market Designator (4), Market Name (Louisville-Lexington-Evansville), 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.

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: WQNE326

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

ULS Application

PCS Broadband - 0010873463 - New Cingular Wireless PCS, LLC

File Number	0010873463	Radio Service	CW - PCS Broadband
Call Sign	WQNE326	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update	Existing Radio Service	
Authorization Type	Regular	Emergency STA	
Receipt Date	01/23/2024	Action Date	01/24/2024
Entered Date	01/23/2024	Requested Expiration Date	
Waiver	No	Number of Rules	
Attachments		Grandfathered Privileges	
Application Fee Exempt	No	Regulatory Fee Exempt	No
Major Request			

Market Data

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	B
Submarket Designator	4	Associated Frequencies (MHz)	001870.00000000-001885.00000000-001950.00000000-001965.00000000

Applicant Information

FRN	0003291192	Type	Limited Liability Company
Name	New Cingular Wireless PCS, LLC 208 S Akard St, 20F Dallas, TX 75202 ATTN National Regulatory Compliance		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Jessica J Dunk 208 S Akard St, 20F Dallas, TX 75202 ATTN NRC		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
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EXHIBIT B

SITE DEVELOPMENT PLAN:

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

PROJECT DESCRIPTION:

INSTALLATION OF A NEW MONOPOLE, A NEW MULTI-TENANT UTILITY FRAME & TRI-COLLAR MOUNT DETAIL, NEW AT&T EQUIPMENT PAD/EQUIPMENT WITHIN A NEW FENCED & GRAVELED COMPOUND. INSTALLATION OF NEW AT&T ANTENNAS ON A NEW TOWER. NO WATER OR SEWER IS REQUIRED. THIS WILL BE AN UNMANNED FACILITY.

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:

- | | |
|--|--|
| 1. 2018 INTERNATIONAL BUILDING CODE WITH KENTUCKY AMENDMENTS | 11. 2015 INTERNATIONAL MECHANICAL CODE WITH KENTUCKY AMENDMENTS |
| 2. 2017 NATIONAL ELECTRIC CODE | 12. KENTUCKY STATE PLUMBING LAW, REGULATIONS & CODE (815 KAR CH. 20) |
| 3. 2012 NFPA 101 LIFE SAFETY CODE | 13. 2012 INTERNATIONAL ENERGY CONSERVATION CODE IS MEANT FOR USE WITH THE KENTUCKY BUILDING CODE ONLY EXCLUDING R-2, R-3 AND R-4 CONSTRUCTION. |
| 4. 2015 INTERNATIONAL FIRE CODE | 14. LOCAL BUILDING CODE |
| 5. AMERICAN CONCRETE INSTITUTE | 15. CITY/COUNTY ORDINANCES |
| 6. AMERICAN INSTITUTE OF STEEL CONSTRUCTION | 16. STATE BUILDING CODE |
| 7. MANUAL OF STEEL CONSTRUCTION, 13TH EDITION | |
| 8. ANSI/TIA-222-H | |
| 9. TIA 607 | |
| 10. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81 | |



**NEW SITE BUILD
TI-OPP-17878 - 15346957
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS OF ROUGH, KY 40119
108'-0" MONOPOLE**

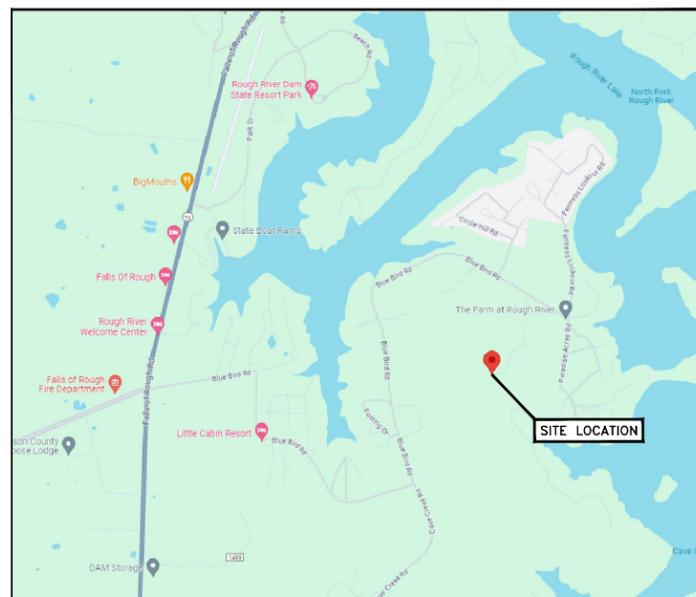
APPROVAL	DATE	SIGNATURE
RF ENGINEER:		
RF MANAGER:		
OPPS MANAGER:		
CONSTR MANAGER:		
NSB MANAGER:		
TRANSPORT:		
EQUIP ENGINEER:		
COMPLIANCE:		
LANDLORD:		
SITE ACQUISITION:		
ZONING AGENT:		
PROJECT MANAGER:		
CONSTR MANAGER:		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED



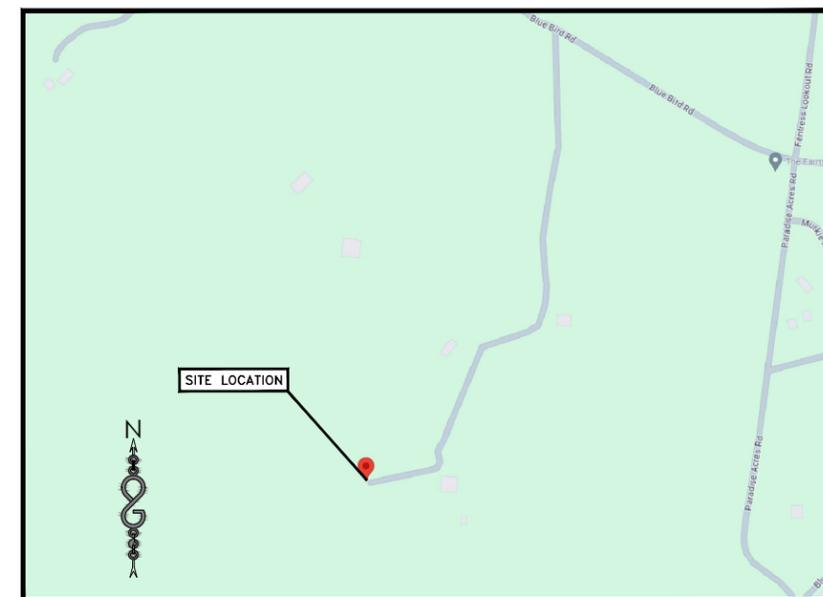
DIG ALERT:
CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING:
811

EMERGENCY:
CALL 911



VICINITY MAP
N.T.S

DRAWING INDEX			
DRWG. #	TITLE	REV.#	DATE
T1	TITLE SHEET	11	11/14/2024
S1-S3	SURVEY (BY OTHERS)	1	04/03/2024
C1	GENERAL NOTES & LEGEND	11	11/14/2024
C2	GENERAL NOTES	11	11/14/2024
C3	OVERALL SITE PLAN	11	11/14/2024
C3.1	SITE PLAN	11	11/14/2024
C4	COMPOUND PLAN	11	11/14/2024
C5	TOWER ELEVATION	11	11/14/2024
C6	EQUIPMENT PAD LAYOUT & CONSTRUCTION DETAILS	11	11/14/2024
C7	WALK UP CABINET DETAILS	11	11/14/2024
C7.1	GENERATOR DETAILS	11	11/14/2024
C8	UTILITY H-FRAME DETAILS	11	11/14/2024
C9	CONSTRUCTION DETAILS	11	11/14/2024
C10	ANTENNA PLAN	11	11/14/2024
C10.1	DETAILS	11	11/14/2024
C11	DC9 & ANTENNA SPECIFICATIONS	11	11/14/2024
C12	RRUS DETAILS	11	11/14/2024
C13	SIGNAGE DETAILS	11	11/14/2024
EC1	GRADING, EROSION & SEDIMENT CONTROL PLAN	11	11/14/2024
EC2	GRADING, EROSION & SEDIMENT CONTROL NOTES & DETAILS	11	11/14/2024
EC3	CIVIL DETAILS	11	11/14/2024
E1	ELECTRICAL PLAN	11	11/14/2024
E2	COMPOUND ELECTRICAL PLAN	11	11/14/2024
E3	ELECTRICAL PANEL SCHEDULE, DIAGRAM & NOTES	11	11/14/2024
E4	TYPICAL DC/FIBER SYSTEM DIAGRAM	11	11/14/2024
E5	TYPICAL DC WIRING DIAGRAM	11	11/14/2024
G1	GROUNDING PLAN	11	11/14/2024
G2	EQUIPMENT GROUNDING PLAN	11	11/14/2024
G3	GROUNDING DETAILS & NOTES	11	11/14/2024
G4	GROUNDING DETAILS	11	11/14/2024
RF1-RF27	RFDS INFORMATION	1	07/16/2021



LOCATION MAP
N.T.S

PROJECT INFORMATION	
SITE NAME:	FALLING BRANCH
SITE NUMBER:	TI-OPP-17878 - 15346957
SITE ADDRESS:	2589 BLUE BIRD ROAD FALLS OF ROUGH, KY 40119
PARCEL #:	034-00-00-013
DEED REFERENCE:	DB 444 PG 461, PLAT CABINET 2 SLIDE 600
ZONING CLASSIFICATION:	N/A
ZONING JURISDICTION:	GRAYSON COUNTY
GROUND ELEVATION:	676.4' A.M.S.L.
STRUCTURE TYPE:	MONOPOLE
STRUCTURE HEIGHT:	108'-0"
LATITUDE (NAD 83):	37° 35' 46.17"/37.596158° N
LONGITUDE:	86° 29' 26.44"/86.490678° W

PROJECT DIRECTORY	
PARCEL OWNER(S):	TERRY L. NEWTON & KIMBERLY D. NEWTON
APPLICANT/TOWER OWNER:	TILLMAN INFRASTRUCTURE 152 W. 57TH STREET NEW YORK, NY 10019
ENGINEER:	INFINIGY ENGINEERING, PLLC 500 W. OFFICE CENTER DR. SUITE 150 FORT WASHINGTON, PA 19034
CONTACT:	PAUL THOAMS PTHOMAS@INFINIGY.COM
POWER COMPANY:	MEADE CO RECC
TELCO COMPANY:	WINDSTREAM

No.	Submittal / Revision	App'd	Date
11	ISSUED FOR CONSTRUCTION	JJD	11/14/24
10	ISSUED FOR CONSTRUCTION	JJD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
7	ISSUED FOR CONSTRUCTION	CS	07/15/24
6	ISSUED FOR CONSTRUCTION	RCD	05/29/24
5	ISSUED FOR CONSTRUCTION	CES	10/14/21
4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21

Drawn: RCD Date: 06/30/21
Designed: CES Date: 06/30/21
Checked: C&W Date: 06/30/21

Project Number
2136-Z0001-C

Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS OF ROUGH, KY 40119



Drawing Title
TITLE SHEET

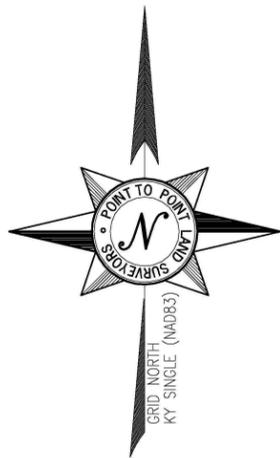
Drawing Scale:
AS NOTED

Date:
06/30/21

CD

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS

Drawing Number
T1



PARENT PARCEL

OWNER: TERRY L. NEWTON AND KIMBERLY D. NEWTON
 SITE ADDRESS: 2589 BLUE BIRD ROAD, FALLS OF ROUGH, KY 40119
 PARCEL ID: 034-00-00-013
 AREA: 22.555 ACRES (PER TAX ASSESSOR)
 ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS
 REFERENCES:
 DEED BOOK 444 PAGE 461
 PLAT CABINET 2 SLIDE 600

GPS NOTES

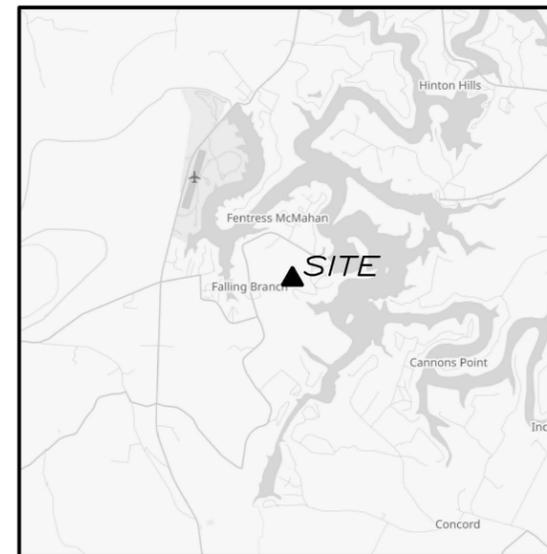
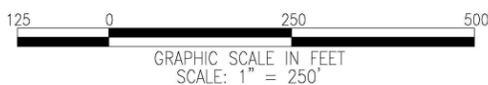
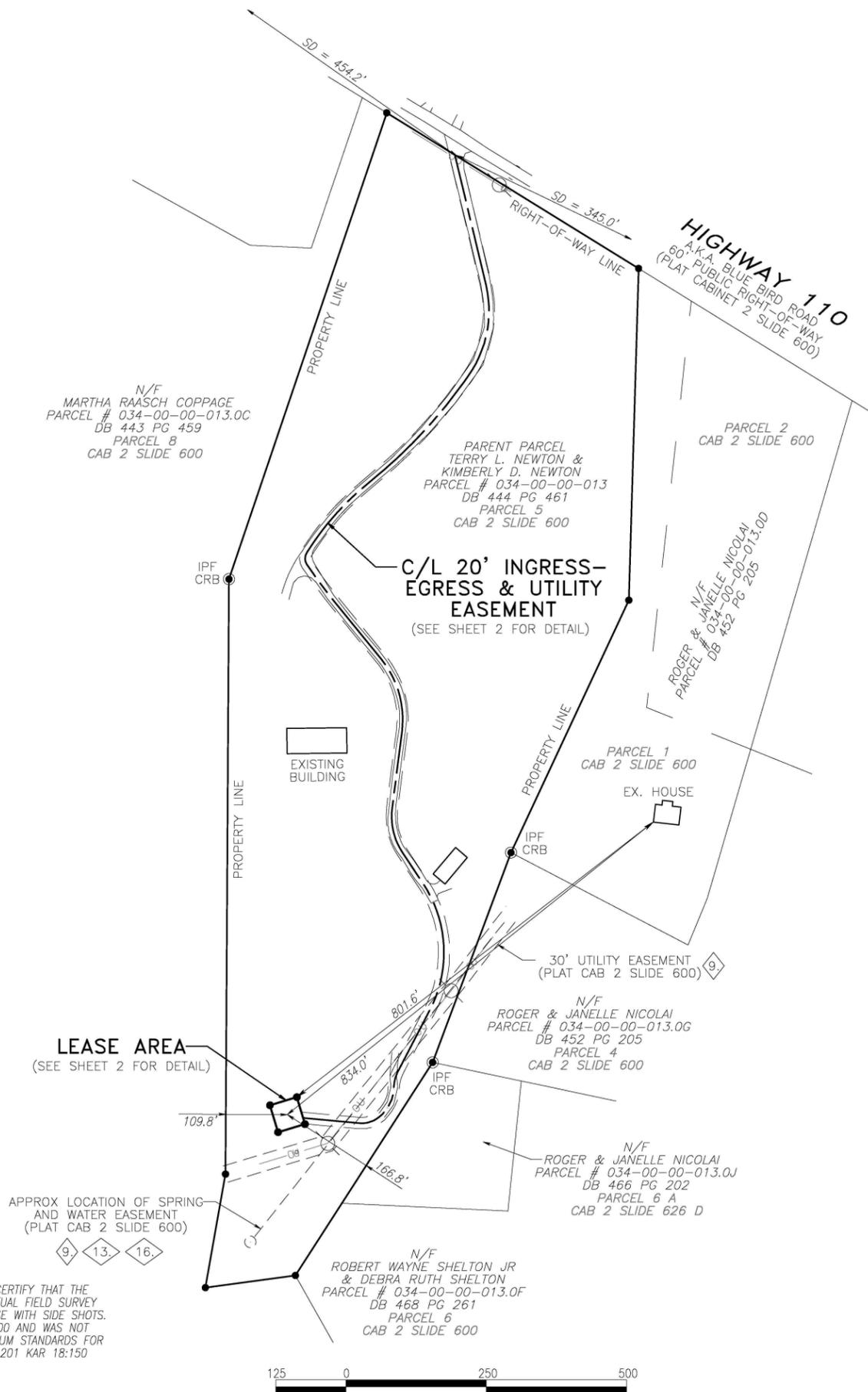
THE FOLLOWING GPS STATISTICS UPON WHICH THIS SURVEY IS BASED HAVE BEEN PRODUCED AT THE 95% CONFIDENCE LEVEL:
 POSITIONAL ACCURACY: 0.07 FEET (HORZ) 0.25 FEET (VERT)
 TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY
 TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE
 DATES OF SURVEY: 02/23/2021
 DATUM / EPOCH: NAD_83(2011)(EPOCH:2010.0000)
 PUBLISHED / FIXED CONTROL USE: N/A
 GEOID MODEL: 18
 COMBINED GRID FACTOR(S): 0.99989145 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON.
 CONVERGENCE ANGLE: -0.45428056"
 BENCHMARKS USED: DK7559, DK4660, DM4051

LEGEND	
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
IPF	IRON PIN FOUND
CRB	CAPPED REBAR
N/F	NOW OR FORMERLY
C/L	CENTERLINE
TYP	TYPICAL
UP	UTILITY POLE
OU	OVERHEAD UTILITY
TR	TRANSFORMER
GW	GUY WIRE ANCHOR
CPP	CORRUGATED PLASTIC PIPE
IE	INVERT ELEVATION
CD	CLEANOUT
CP	CONCRETE PAD
EP	EDGE OF PAVEMENT
MB	MAILBOX
WM	WATER METER

SURVEYOR'S CERTIFICATE

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

G. Darrell Taylor 10/04/2023
 G. DARRELL TAYLOR, PLS 4179 DATE



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

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

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THE FIELD DATA UPON WHICH THIS SPECIFIC PURPOSE SURVEY IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000+ FEET AND AN ANGULAR ERROR OF 5.0" PER ANGLE POINT AND WAS NOT ADJUSTED FOR CLOSURE.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITH 35. [DATE OF LAST FIELD VISIT: 09/13/2023]

THE 2' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 1'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH (NAD 83) KENTUCKY SINGLE ZONE.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD). COMMUNITY PANEL NO. : 21085C0055C DATED: 09/19/2012.

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

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

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

THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS. THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION.

SURVEY NOT VALID WITHOUT SHEETS 2 & 3 OF 3

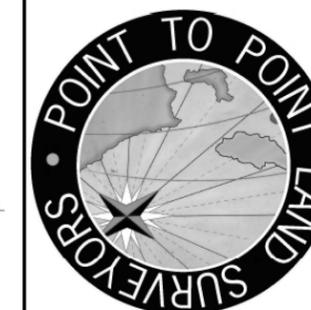


Know what's below.
Call before you dig.

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

NO.	DATE	REVISION
1	4/3/24	LEASE AREA

* SPECIFIC PURPOSE SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
 100 Governors Trace, Ste. 103
 Peachtree City, GA 30269
 (p) 678.565.4440 (f) 678.565.4497
 (w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:



TILLMAN INFRASTRUCTURE, LLC
 152 W 57TH STREET, 27TH FLOOR
 NEW YORK, NY 10019

FALLING BRANCH

SITE NO. TI-OPP-17878
 FA NO. 15346957

GRAYSON COUNTY, KENTUCKY

DRAWN BY: AJT

CHECKED BY: JKL

APPROVED: D. MILLER

DATE: OCTOBER 4, 2023

P2P JOB #: 231253KY

SHEET:

1

OF 3

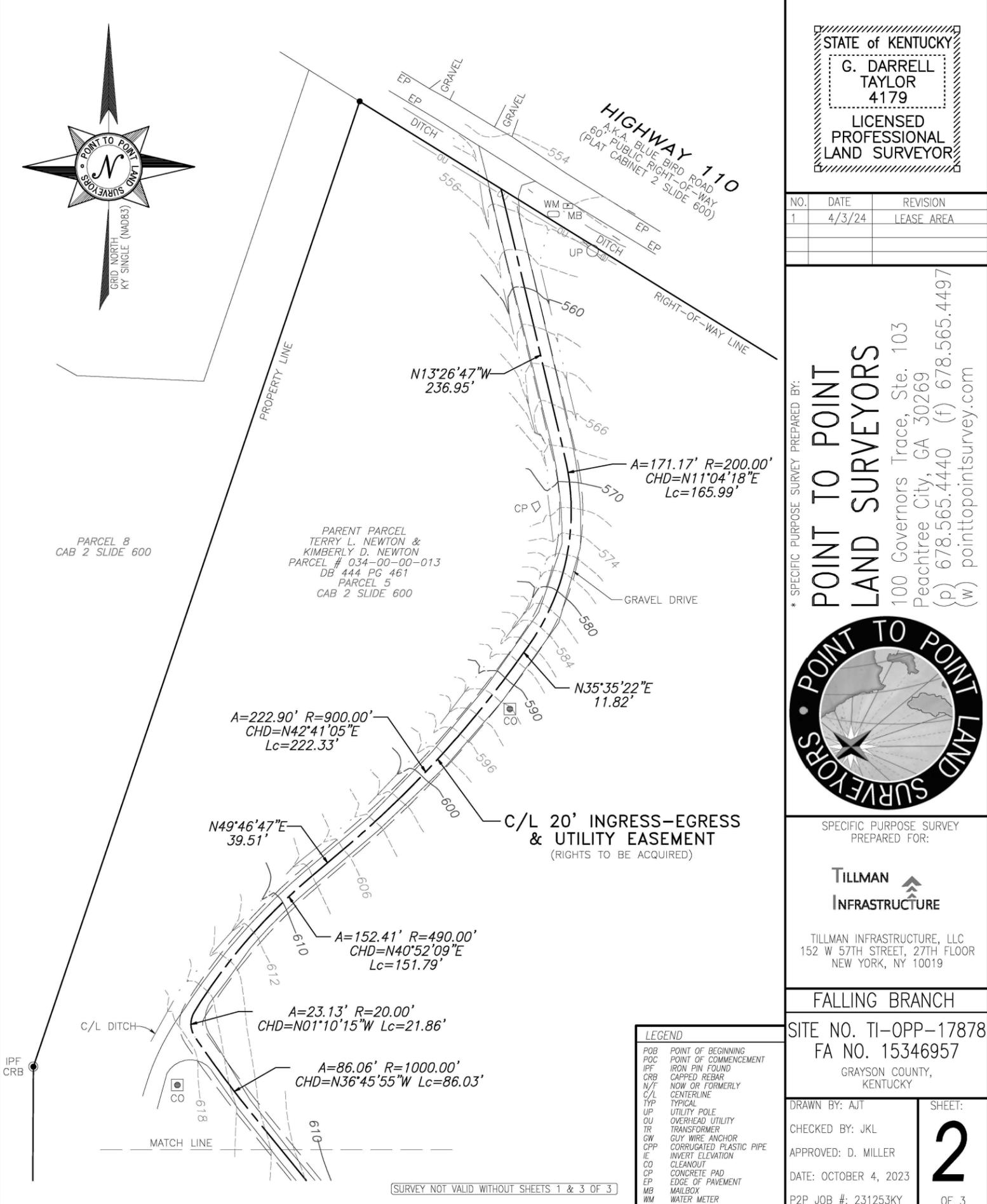
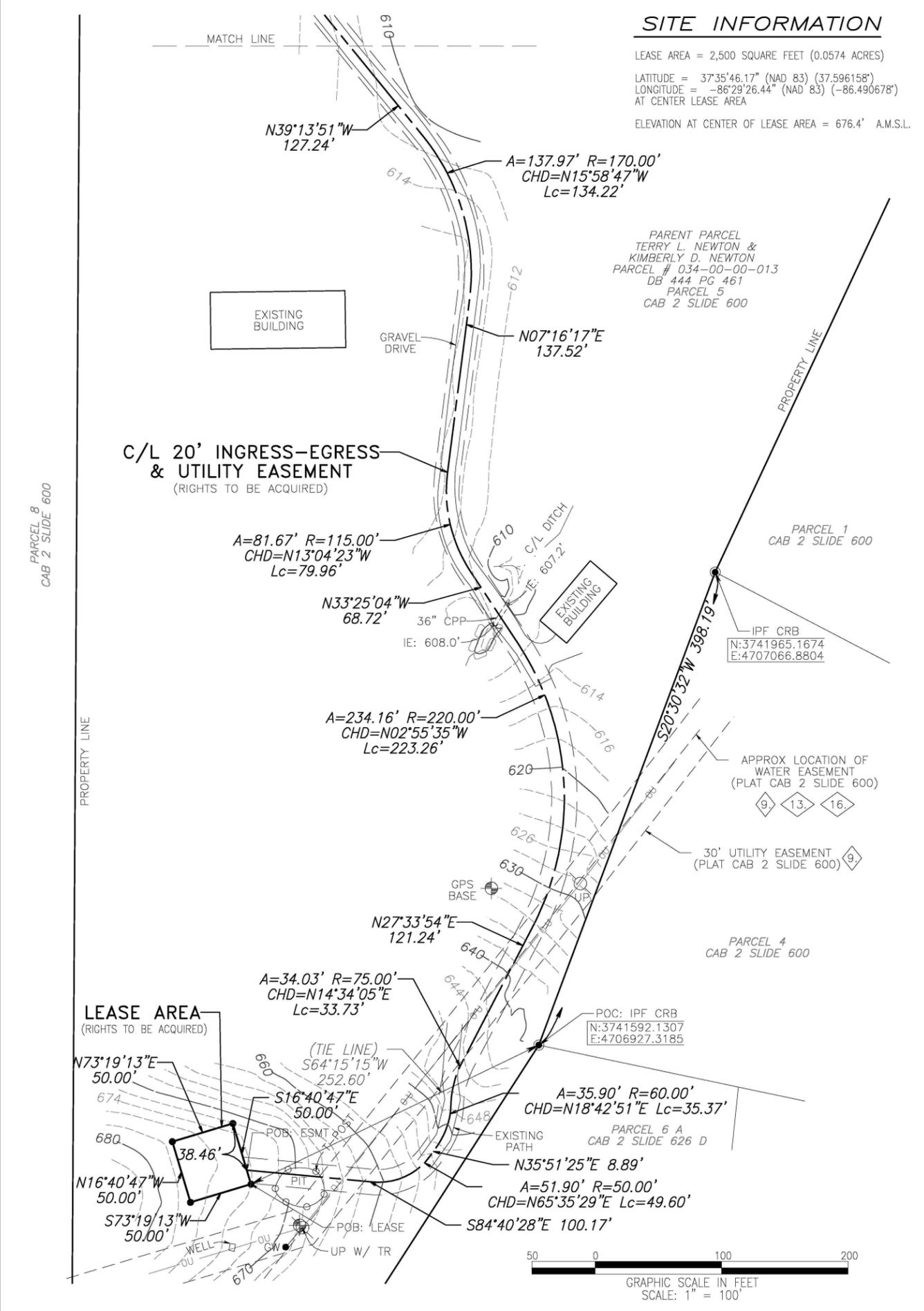
E:\Point To Point Dropbox\2P Current Jobs\2023\231253KY-Falling Branch\231253KY.prn

SITE INFORMATION

LEASE AREA = 2,500 SQUARE FEET (0.0574 ACRES)
 LATITUDE = 37°35'46.17" (NAD 83) (37.596158°)
 LONGITUDE = -86°29'26.44" (NAD 83) (-86.490678°)
 AT CENTER LEASE AREA
 ELEVATION AT CENTER OF LEASE AREA = 676.4' A.M.S.L.

PARENT PARCEL
 TERRY L. NEWTON &
 KIMBERLY D. NEWTON
 PARCEL # 034-00-00-013
 DB 444 PG 461
 PARCEL 5
 CAB 2 SLIDE 600

PARENT PARCEL
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 PARCEL # 034-00-00-013
 DB 444 PG 461
 PARCEL 5
 CAB 2 SLIDE 600



STATE of KENTUCKY
G. DARRELL TAYLOR
 4179
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SPECIFIC PURPOSE SURVEY PREPARED FOR:
TILLMAN INFRASTRUCTURE
 TILLMAN INFRASTRUCTURE, LLC
 152 W 57TH STREET, 27TH FLOOR
 NEW YORK, NY 10019

FALLING BRANCH
 SITE NO. TI-OPP-17878
 FA NO. 15346957
 GRAYSON COUNTY, KENTUCKY

DRAWN BY: AJT
 CHECKED BY: JKL
 APPROVED: D. MILLER
 DATE: OCTOBER 4, 2023
 P2P JOB #: 231253KY

SHEET:
2
 OF 3

LEGEND

POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
IPF	IRON PIN FOUND
CRB	CAPPED REBAR
N/F	NOW OR FORMERLY
C/L	CENTERLINE
TYP	TYPICAL
UP	UTILITY POLE
OU	OVERHEAD UTILITY
TR	TRANSFORMER
GW	GUY WIRE ANCHOR
CPP	CORRUGATED PLASTIC PIPE
IE	INVERT ELEVATION
CO	CLEANOUT
EP	EDGE OF PAVEMENT
MB	MAILBOX
WM	WATER METER

[SURVEY NOT VALID WITHOUT SHEETS 1 & 3 OF 3]

LEGAL DESCRIPTION SHEET

20' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 20-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT, MEASURING 10 FEET EACH SIDE OF CENTERLINE, LYING AND BEING IN GRAYSON COUNTY, KENTUCKY, AND BEING A PORTION OF THE LANDS OF TERRY L. NEWTON AND KIMBERLY D. NEWTON, AS RECORDED IN DEED BOOK 444, PAGE 461, BEING PARCEL 5 OF THE KENNETH AND MYRNA FENTRESS FARM DIVISION AS RECORDED IN PLAT CABINET 2, SLIDE 600, GRAYSON COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE, AT A CAPPED REBAR FOUND AT THE SOUTHWEST CORNER OF PARCEL 4 OF SAID FENTRESS FARM DIVISION, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N:3741592.1307 E:4706927.3185, AND FOUND BEARING SOUTH 20°30'32" WEST, 398.19' FEET FROM A CAPPED REBAR, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3741965.1674 E:4707066.8804; THENCE RUNNING ALONG A TIE LINE, SOUTH 64°15'15" WEST, 252.60 FEET TO A POINT ON THE LEASE AREA; THENCE RUNNING ALONG SAID LEASE AREA, SOUTH 73°19'13" WEST, 50.00 FEET TO A POINT; THENCE, NORTH 16°40'47" WEST, 50.00 FEET TO A POINT; THENCE, NORTH 73°19'13" EAST, 50.00 FEET TO A POINT; THENCE, SOUTH 16°40'47" EAST, 38.46 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID LEASE AREA AND RUNNING, SOUTH 84°40'28" EAST, 100.17 FEET TO A POINT; THENCE, 51.90 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 50.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 65°35'29" EAST, 49.60 FEET TO A POINT; THENCE, NORTH 35°51'25" EAST, 8.89 FEET TO A POINT; THENCE, 35.90 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 60.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 18°42'51" EAST, 35.37 FEET TO A POINT; THENCE, 34.03 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 75.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 14°34'05" EAST, 33.73 FEET TO A POINT; THENCE, NORTH 27°33'54" EAST, 121.24 FEET TO A POINT; THENCE, 234.16 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 220.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 02°55'35" WEST, 223.26 FEET TO A POINT; THENCE, NORTH 33°25'04" WEST, 68.72 FEET TO A POINT; THENCE, 81.67 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 115.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 13°04'23" WEST, 79.96 FEET TO A POINT; THENCE, NORTH 07°16'17" EAST, 137.52 FEET TO A POINT; THENCE, 137.97 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 170.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 15°58'47" WEST, 134.22 FEET TO A POINT; THENCE, NORTH 39°13'51" WEST, 127.24 FEET TO A POINT; THENCE, 86.06 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 1000.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 36°45'55" WEST, 86.03 FEET TO A POINT; THENCE, 23.13 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 20.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 01°10'15" WEST, 21.86 FEET TO A POINT; THENCE, 152.41 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, HAVING A RADIUS OF 490.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 40°52'09" EAST, 151.79 FEET TO A POINT; THENCE, NORTH 49°46'47" EAST, 39.51 FEET TO A POINT; THENCE, 222.90 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 900.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 42°41'05" EAST, 222.33 FEET TO A POINT; THENCE, NORTH 35°35'22" EAST, 11.82 FEET TO A POINT; THENCE, 171.17 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 200.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 11°04'18" EAST, 165.99 FEET TO A POINT; THENCE, NORTH 13°26'47" WEST, 236.95 FEET TO THE ENDING AT A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF HIGHWAY NO. 110 (A.K.A. BLUE BIRD ROAD, HAVING A 60-FOOT PUBLIC RIGHT-OF-WAY).

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

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN GRAYSON COUNTY, KENTUCKY, AND BEING A PORTION OF THE LANDS OF TERRY L. NEWTON AND KIMBERLY D. NEWTON, AS RECORDED IN DEED BOOK 444, PAGE 461, BEING PARCEL 5 OF THE KENNETH AND MYRNA FENTRESS FARM DIVISION AS RECORDED IN PLAT CABINET 2, SLIDE 600, GRAYSON COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE, AT A CAPPED REBAR FOUND AT THE SOUTHWEST CORNER OF PARCEL 4 OF SAID FENTRESS FARM DIVISION, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD 83, SINGLE ZONE VALUE OF N:3741592.1307 E:4706927.3185, AND FOUND BEARING SOUTH 20°30'32" WEST, 398.19' FEET FROM A CAPPED REBAR, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3741965.1674 E:4707066.8804; THENCE RUNNING ALONG A TIE LINE, SOUTH 64°15'15" WEST, 252.60 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, SOUTH 73°19'13" WEST, 50.00 FEET TO A POINT; THENCE, NORTH 16°40'47" WEST, 50.00 FEET TO A POINT; THENCE, NORTH 73°19'13" EAST, 50.00 FEET TO A POINT; THENCE, SOUTH 16°40'47" EAST, 50.00 FEET TO A POINT AND THE POINT OF BEGINNING.

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

SAID TRACT CONTAINS 0.0574 ACRES (2,500 SQUARE FEET), MORE OR LESS.

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT DATE OF JANUARY 15, 2021 8:00 AM, BEING COMMITMENT NO. TKY778193, FOR THE PARENT PARCEL, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

9. ALL MATTERS DESCRIBED ON A PLAT RECORDED IN PLAT CABINET 2, SLIDE 600-600D.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL, LEASE AREA AND INGRESS-EGRESS AND UTILITY EASEMENT, AND IS PLOTTED HEREON.]

10. EASEMENT AGREEMENT GRANTED TO BIG RIVERS ELECTRIC CORPORATION DATED SEPTEMBER 12, 2008 AND RECORDED ON SEPTEMBER 19, 2008 IN BOOK 386, PAGE 310.

[THIS ITEM MAY BE APPLICABLE TO THE PARENT PARCEL BUT THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

11. SPECIAL POWER OF ATTORNEY DATED NOVEMBER 5, 2015 AND RECORDED ON NOVEMBER 10, 2015 IN BOOK 173, PAGE 161; GENERAL DURABLE POWER OF ATTORNEY DATED MARCH 2, 2007 AND RECORDED ON MARCH 2, 2007 IN BOOK 120, PAGE 497.

[THIS ITEM IS NOT A SURVEY RELATED MATTER.]

12. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN FRANCES EDWARDS AND JOSEPH EUGENE EDWARDS, HER HUSBAND AND BEVERLY RAZOR AND RICKY RAZOR, HER HUSBAND AND MARTHA RAASCH COPPAGE, SINGLE (GRANTOR) RYAN HUGH COPPAGE, NATHAN ION COPPAGE, EVAN DEREK COPPAGE AND JORDAN ADRIAN COPPAGE (GRANTEE), DATED NOVEMBER 13, 2015 AND RECORDED NOVEMBER 13, 2015 IN BOOK 443, PAGE 459.

[THIS ITEM IS NOT APPLICABLE TO THE PARENT PARCEL.]

13. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN FRANCES EDWARDS AND JOSEPH EUGENE EDWARDS, HER HUSBAND AND BEVERLY RAZOR AND RICKY RAZOR, HER HUSBAND (GRANTOR) AND HARVEL ESCUE AND WILDA ESCUE, HIS WIFE (GRANTEE), DATED NOVEMBER 13, 2015 AND RECORDED NOVEMBER 13, 2015 IN BOOK 443, PAGE 477.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL. APPROXIMATE LOCATION OF SPRING AND WATERLINE ARE SHOWN HEREON.]

14. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN FRANCES EDWARDS AND JOSEPH EUGENE EDWARDS, HER HUSBAND AND BEVERLY RAZOR AND RICKY RAZOR, HER HUSBAND (GRANTOR) AND SHEILA MEREDITH AND DAVID MEREDITH, HER HUSBAND (GRANTEE), DATED NOVEMBER 13, 2015 AND RECORDED NOVEMBER 13, 2015 IN BOOK 443, PAGE 454.

[THIS ITEM IS NOT APPLICABLE TO THE PARENT PARCEL.]

15. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN FRANCES EDWARDS AND JOSEPH EUGENE EDWARDS, HER HUSBAND AND BEVERLY RAZOR AND RICKY RAZOR, HER HUSBAND (GRANTOR) AND CHRISTOPHER DEAN SHERRAD AND AMANDA LEE SHERRARD AND BILLY HAFFNER (GRANTEE), DATED NOVEMBER 13, 2015 AND RECORDED NOVEMBER 16, 2015 IN BOOK 443, PAGE 492.

[THIS ITEM IS NOT APPLICABLE TO THE PARENT PARCEL.]

PARENT PARCEL

(PER COMMITMENT NO.: TKY778193)

CERTAIN TRACT OR PARCEL OF LAND LYING ON OR BEING NEAR THE WATERS OF ROUGH CREEK, IN GRAYSON COUNTY, KENTUCKY, AND BEING MORE FULLY DESCRIBED AS FOLLOWS:

BEING PARCEL NUMBER 5 (22.555 ACRES) OF THE KENNETH AND MYRNA FENTRESS FARM DIVISION, AS SHOWN BY PLAT COMPLETED SEPTEMBER 28, 2015, APPEARING OF RECORD IN PLAT CABINET 2, SLIDE 600, RECORDS OF THE GRAYSON COUNTY CLERK'S OFFICE.

BEING SUBJECT TO AN EASEMENT GRANTED TO THE OWNERS OF PARCELS # 1, #2 AND #6 FOR THE USE WATER FROM THE SPRING LOCATED SUBJECT PROPERTY TOGETHER WITH THE 30' UTILITY EASEMENT DESIGNATED ON PLAT APPEARING IN PLAT CABINET 2, SLIDE 600. AS "WATER LINE EASEMENT LEADING FROM SPRING TO HOUSE AND BARN".

BEING A NEW SURVEY DESCRIPTION OF A PORTION OF THAT PROPERTY CONVEYED TO FRANCES EDWARDS AND BEVERLY RAZOR BY DEED FROM MYRNA FRANCES FENTRESS, A WIDOW AND SINGLE PERSON, DATED APRIL 29, 2008, APPEARING IN DEED BOOK 382, PAGE 440, RECORDS OF THE GRAYSON COUNTY CLERK.

BEING THE SAME PROPERTY CONVEYED TO TERRY L. NEWTON AND KIMBERLY D. NEWTON, HIS WIFE FROM FRANCES EDWARDS AND JOSEPH EUGENE EDWARDS, HER HUSBAND BY DEED DATED DECEMBER 11, 2015 AND RECORDED ON DECEMBER 23, 2015, IN DEED BOOK 444, PAGE 461.

16. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN FRANCES EDWARDS AND JOSEPH EUGENE EDWARDS, HER HUSBAND AND BEVERLY RAZOR AND RICKY RAZOR, HER HUSBAND (GRANTOR) AND JOHN A. ARMES (GRANTEE), DATED DECEMBER 2, 2015 AND RECORDED DECEMBER 2, 2015 IN BOOK 444, PAGE 62.

[THIS ITEM IS APPLICABLE TO THE PARENT PARCEL. APPROXIMATE LOCATION OF SPRING AND WATERLINE ARE SHOWN HEREON.]

17. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN TIMBER SALE CONTRACT MADE BY AND BETWEEN KENNETH M. FENTRESS AND MYRNA FRANCES FENTRESS, HIS WIFE (GRANTOR) AND THE FISCHER CHAIR COMPANY (GRANTEE), DATED APRIL 28, 1948 IN BOOK 40, PAGE 279.

[THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

18. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED OF CONVEYANCE MADE BY AND BETWEEN KENNETH M. FENTRESS & WIFE MYRNA FENTRESS (GRANTOR) AND W. O. BEAUCHAMP (GRANTEE), DATED APRIL 13, 1948 IN BOOK 52, PAGE 39.

[THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

19. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED OF CONVEYANCE MADE BY AND BETWEEN KENNETH M. FENTRESS AND MYRNA FRANCES FENTRESS, HIS WIFE (GRANTOR) AND B. RITTER WHIPPLE AND LOUIS BRAMMER AND LILLY MAE BRAMMER, HIS WIFE (GRANTEE), DATED DECEMBER 6, 1958 IN BOOK 56, PAGE 489.

[THIS ITEM IS NOT APPLICABLE TO THE PARENT PARCEL.]

20. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN KENNETH FENTRESS AND MYRNA FRANCES FENTRESS, HIS WIFE (GRANTOR) AND J.V. TUBB, JR., GEORGE FENTRESS, JR. AND WALTER MAHURIN (GRANTEE), DATED AUGUST 14, 1964 IN BOOK 84, PAGE 365.

[THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

21. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN KENNETH FENTRESS AND MYRNA FRANCES FENTRESS, HIS WIFE (GRANTOR) AND OTHMARE J. HELLMANN AND ELMORA E. HELLMANN, HUSBAND AND WIFE, JOINTLY FOR LIFE WITH REMAINDER TO THE SURVIVOR OF EITHER OF THEM (GRANTEE), DATED JULY 11, 1966 IN BOOK 92, PAGE 421.

[THIS ITEM IS NOT APPLICABLE TO THE PARENT PARCEL.]

22. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN KENNETH FENTRESS AND MYRNA FENTRESS, HIS WIFE (GRANTOR) AND CARL L. SARVER AND GEORGE FENTRESS, JR. (GRANTEE), DATED JUNE 25, 1968 IN BOOK 97, PAGE 444.

[THIS ITEM IS NOT APPLICABLE TO THE PARENT PARCEL.]

23. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN KENNETH M. FENTRESS AND MYRNA FRANCES FENTRESS, HIS WIFE (GRANTOR) AND GEORGE FENTRESS, JR. (GRANTEE), DATED OCTOBER 18, 1968 IN BOOK 99, PAGE 225.

[THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

24. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN KENNETH M. FENTRESS AND MYRNA FRANCES FENTRESS, HIS WIFE (GRANTOR) AND DAVID MURL FENTRESS AND ALICE FENTRESS, HIS WIFE (GRANTEE), DATED MARCH 26, 1976 IN BOOK 146, PAGE 124.

[THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

25. EASEMENT/RESTRICTIONS RECORDS SET FORTH IN DEED MADE BY AND BETWEEN MYRNA FRANCES FENTRESS, WIDOWED AND SINGLE, BY AND THROUGH HER ATTORNEY-IN-FACT, FRANCES (KITTY) EDWARDS (GRANTOR) AND DAVID MURL FENTRESS. (GRANTEE), DATED MAY 7, 2007 AND RECORDED ON MAY 8, 2007 IN BOOK 374, PAGE 38.

[THIS ITEM CANNOT BE LOCATED BECAUSE THE DESCRIPTION IS VAGUE AND THEREFORE WE CANNOT ASCERTAIN THE LOCATION THEREOF.]

26. OIL AND GAS LEASE MADE BY AND BETWEEN KENNETH M. FENTRESS AND MYRNA FRANCES FENTRESS, HUSBAND AND WIFE (GRANTOR) AND JIMMY CARPENTER (GRANTEE), DATED JULY 22, 1991 AND RECORDED ON SEPTEMBER 20, 1991 IN BOOK 38, PAGE 607; AS ASSIGNED TO KENTUCKY RESOURCES DEVELOPMENT, CORP. BY ASSIGNMENT DATED OCTOBER 16, 1996 AND RECORDED ON OCTOBER 25, 1996 IN BOOK 43, PAGE 394; AS ASSIGNED TO CONOCO INC., A DELAWARE CORPORATION BY ASSIGNMENT OF OIL AND GAS LEASE DATED AUGUST 14, 2001 AND RECORDED ON JUNE 8, 1992 IN BOOK 48, PAGE 246.

[THIS ITEM IS MAY NOT BE APPLICABLE TO THE PARENT PARCEL AND IS BLANKET IN NATURE.]



NO.	DATE	REVISION
1	4/3/24	LEASE AREA

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT LAND SURVEYORS

100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com



SPECIFIC PURPOSE SURVEY PREPARED FOR:



TILLMAN INFRASTRUCTURE, LLC
152 W 57TH STREET, 27TH FLOOR
NEW YORK, NY 10019

FALLING BRANCH

SITE NO. TI-OPP-17878
FA NO. 15346957
GRAYSON COUNTY,
KENTUCKY

DRAWN BY: AJT	SHEET:
CHECKED BY: JKL	3
APPROVED: D. MILLER	
DATE: OCTOBER 4, 2023	
P2P JOB #: 231253KY	
	OF 3

GENERAL PROJECT NOTES

- THE ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT ON A ONE TIME BASIS.
- THE CONTRACTOR SHALL TOPSOIL AND SEED ALL DISTURBED AREAS.
- THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 811.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES, ETC.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF THE STATE LICENSED LAND SURVEYOR.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE WORK WITH ALL CONTRACTS FOR THE SITE.
- ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE JURISDICTIONS STATE CODE AND OSHA REGULATIONS FOR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
- ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE UTILITY OWNER. NOTIFY THE ENGINEER AND THE UTILITY OWNER 24 HOURS BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
- MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CONTRACTOR TO GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE COMPOUND AND THE TOWER.
- THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR ADMISSIONS TO THE SATISFACTION OF THE OWNER AND HIS REPRESENTATIVES BEFORE UTILITIES WILL BE ACCEPTED. AS-BUILTS SHALL INCLUDE ALL POWER, TELEPHONE, GROUNDING, ETC.
- TOWER FOOTING DIMENSIONS SHALL BE VERIFIED WITH THE TOWER MANUFACTURER AND THE TOWER PLANS.

GENERAL CONSTRUCTION NOTES

- GENERAL
 - THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
 - CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
 - INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
 - EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
 - PAINT ALL ANTENNAS, MOUNTING HARDWARE, CABLES, CABLE TRAYS, ETC. TO MATCH EXISTING STRUCTURE PER OWNER REQUIREMENTS. OWNER SHALL APPROVE COLOR.
 - ALL DAMAGED, MARRED, SCRAPED, ABRADED, ETC. AREAS OF EXISTING PAINT SHALL BE REPAIRED PER OWNERS REQUIREMENTS. OWNER SHALL APPROVE COLOR.
- EXCAVATIONS/FOUNDATION
 - FOUNDATION EXCAVATION SHALL BE HAND-TRIMMED TO REMOVE LOOSE MATERIALS.
 - EXTERIOR FOUNDATION BACKFILL SHALL BE SELECTED GRANULAR FILL.
 - ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS-ON-GRADE AND FOOTINGS SHALL BE "SW" OR BETTER PER ASTM D-2487 COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY PER ASTM D 698.
 - DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.
 - SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY GEOTECHNICAL ENGINEER, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF GEOTECHNICAL ENGINEER.
 - DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
 - FOOTING EXCAVATIONS SHALL BE CUT NEAT.
- CONCRETE
 - DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE";
 - MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
 - CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED ($\pm 1.5\%$) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
 - MAXIMUM AGGREGATE SIZE SHALL BE 1".
 - THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT:	ASTM C 150, TYPE I
REINFORCEMENT:	ASTM A 615, GRADE 60
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING
 - REINFORCING SHALL CONFORM TO ASTM A-615 WITH SUPPLEMENT. MINIMUM YIELD STRENGTH $F_y = 60$ KSI. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
 - CONCRETE COVER AROUND REINFORCING BARS (U.N.O.) SHALL BE:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED EARTH.....3"
 - CONCRETE EXPOSED TO EARTH, WEATHER.....2"
 - SLABS.....3/4"
 - ALL OTHER CONCRETE.....1 1/2"
 - UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B, TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION, UNLESS NOTED OTHERWISE.
 - CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
 - ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
 - DO NOT WELD OR TACKWELD REINFORCING STEEL.
 - ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
 - LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
 - REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
 - PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
 - DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
 - DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
 - FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
 - PROVIDE A STEEL TROWEL FINISH TO THE SLAB.
- ANTENNA SUPPORT BRACKET NOTES (IF APPLICABLE)
 - DESIGN RESPONSIBILITY OF ANTENNA MOUNTING BRACKETS AND POLES AND ALL COMPONENTS THERE OF AND ATTACHMENT THERE TO SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER. MFR SHALL PROVIDE TO THE ENGINEER FOR APPROVAL, DRAWINGS DETAILING ALL COMPONENTS OF THE ASSEMBLY, INCLUDING CONNECTIONS, DESIGN LOADS, AND ALL OTHER PERTINENT DATA.
 - BRACKETS SHALL BE DESIGNED TO SUPPORT CURRENT AND FUTURE PANEL ANTENNAS AND COAXIAL CABLES AS SHOWN.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STEEL ANGLES, BASE PLATES, BEARING PLATES AND MISC. FABRICATION SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF ASTM-A36 WITH A MINIMUM YIELD STRESS OF 36 KSI. ALL STEEL TUBES AND PIPES SHALL BE A500 STEEL MINIMUM.
- ALL DINGS, SCRAPES, MARS, AND WELDS IN THE FINISHED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE, WHEN DELIVERED, HOT-DIP GALVANIZED ACCORDING TO ASTM A123. TOUCH-UP FIELD WELDS AND ABRADED AREAS W/2 COATS OF GALVANIZED PAINT, ZRC COLD GALVANIZING COMPOUND OR APPROVED EQUAL.
- DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:
 - BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
 - NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
- SAFETY NOTES:
 - THE CONTRACTOR WILL ADHERE TO ALL SAFETY REGULATIONS, LOCAL, STATE AND FEDERAL.
 - THE CONTRACTOR WILL CONDUCT DAILY SAFETY TAILGATE MEETINGS IN ADDITION TO WEEKLY SAFETY MEETINGS. THESE REPORTS WILL BE MADE AVAILABLE TO THE OWNER UPON REQUEST.
 - ALL WORKERS & VISITORS TO THE SITE SHALL WEAR HARD HATS & ANY OTHER SAFETY EQUIPMENT REQUIRED BY THE WORK BEING PERFORMED ON THE SITE.

CIVIL LEGEND

	EXISTING UNDERGROUND ELECTRIC		PROPOSED UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND TELEPHONE		PROPOSED UNDERGROUND TELEPHONE
	EXISTING OVERHEAD WIRES		PROPOSED OVERHEAD TELEPHONE
	250		5' OR 10' CONTOUR LINE
	202		1' OR 2' CONTOUR LINE
	120.5 OR 120.5		SPOT ELEVATION
	PRIMARY PROPERTY OR R.O.W.		LEASE LINE
	EASEMENT		UTILITY POLE
	TELEPHONE PEDESTAL		TELEPHONE PEDESTAL
	CURB		ASPHALT PAVEMENT
	BUILDING		TREES, SHRUBS, BUSHES
	TREES, SHRUBS, BUSHES		REPRESENTS DETAIL NUMBER
	REPRESENTS DETAIL NUMBER		REF. DRAWING NUMBER

GROUNDING SYMBOLS

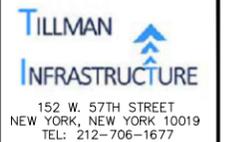
	GROUND ROD
	ACCESS WELL
	GROUND ROD WITH ACCESS
	#2 BTCW GROUNDING WIRE U.N.O.
	INDICATES CODED NOTE

ELECTRICAL SYMBOLS

	RECEPTACLE
	BURIED RACEWAY
	TOWER LIGHT SYSTEM
	INDICATES CODED NUMBER
	INDICATES DISCONNECT SWITCH

ABBREVIATIONS

CIGBE	COAX ISOLATED GROUND BAR EXTERNAL
MIGB	MASTER ISOLATED GROUND BAR
SST	SELF SUPPORTING TOWER
GPS	GLOBAL POSITIONING SYSTEM
TYP.	TYPICAL
DWG	DRAWING
BCW	BARE COPPER WIRE
BFG	BELOW FINISH GRADE
W/	WITH
PVC	POLYVINYL CHLORIDE
CAB	CABINET
C	CONDUIT
SS	STAINLESS STEEL
G	GROUND
AWG	AMERICAN WIRE GAUGE
RGS	RIGID GALVANIZED STEEL
AHJ	AUTHORITY HAVING JURISDICTION
TTLNA	TOWER TOP LOW NOISE AMPLIFIER
UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING



11	ISSUED FOR CONSTRUCTION	JLD	11/14/24
10	ISSUED FOR CONSTRUCTION	JLD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
7	ISSUED FOR CONSTRUCTION	CS	07/15/24
6	ISSUED FOR CONSTRUCTION	RCD	05/29/24
5	ISSUED FOR CONSTRUCTION	CS	10/14/21
4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CS	08/25/21
No.	Submittal / Revision	App'd	Date
Drawn:	RCD	Date:	06/30/21
Designed:	CS	Date:	06/30/21
Checked:	CJW	Date:	06/30/21

Project Number	2136-Z0001-C
Project Title	15346957 TI-OPP-17878 FALLING BRANCH
Address	2589 BLUE BIRD ROAD FALLS CREEK, KY 40119



Drawing Title	GENERAL NOTES & LEGEND
Drawing Scale:	AS NOTED
Date:	06/30/21
CD	
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Drawing Number	C1

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE 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.
4. 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.
5. 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.
6. 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.
7. THE CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.
8. TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/TIA 22-H REQUIREMENTS.
9. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.
10. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.
11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE THEM AND CONTACT THE APPLICANT AND OWNER'S REPRESENTATIVE.
12. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY TWICE A MONTH.
13. PRIOR TO THE INSTALLATION OF THE PROPOSED EQUIPMENT OR MODIFICATION TO THE EXISTING STRUCTURE, A STRUCTURAL ANALYSIS SHALL BE PERFORMED BY THE OWNER'S AGENT TO CERTIFY THAT THE EXISTING/PROPOSED COMMUNICATION STRUCTURE AND COMPONENTS ARE STRUCTURALLY ADEQUATE TO SUPPORT ALL EXISTING AND PROPOSED ANTENNAS, COAXIAL CABLES AND OTHER APPURTENANCES.
14. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
15. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
16. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORM WATER RUNOFF, THEREFORE NO DRAINAGE STRUCTURES ARE PROPOSED.
17. NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY.
18. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
19. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
20. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER.



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7	ISSUED FOR CONSTRUCTION	CS	07/15/24
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5	ISSUED FOR CONSTRUCTION	CES	10/14/21
4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
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2	ISSUED FOR CONSTRUCTION	CES	08/25/21

Drawn: RCD Date: 06/30/21
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Project Number
 2136-Z0001-C

Project Title
 15346957
 TI-OPP-17878
 FALLING BRANCH
 2589 BLUE BIRD ROAD
 FALLS CREEK, KY 40119



Drawing Title
 GENERAL NOTES

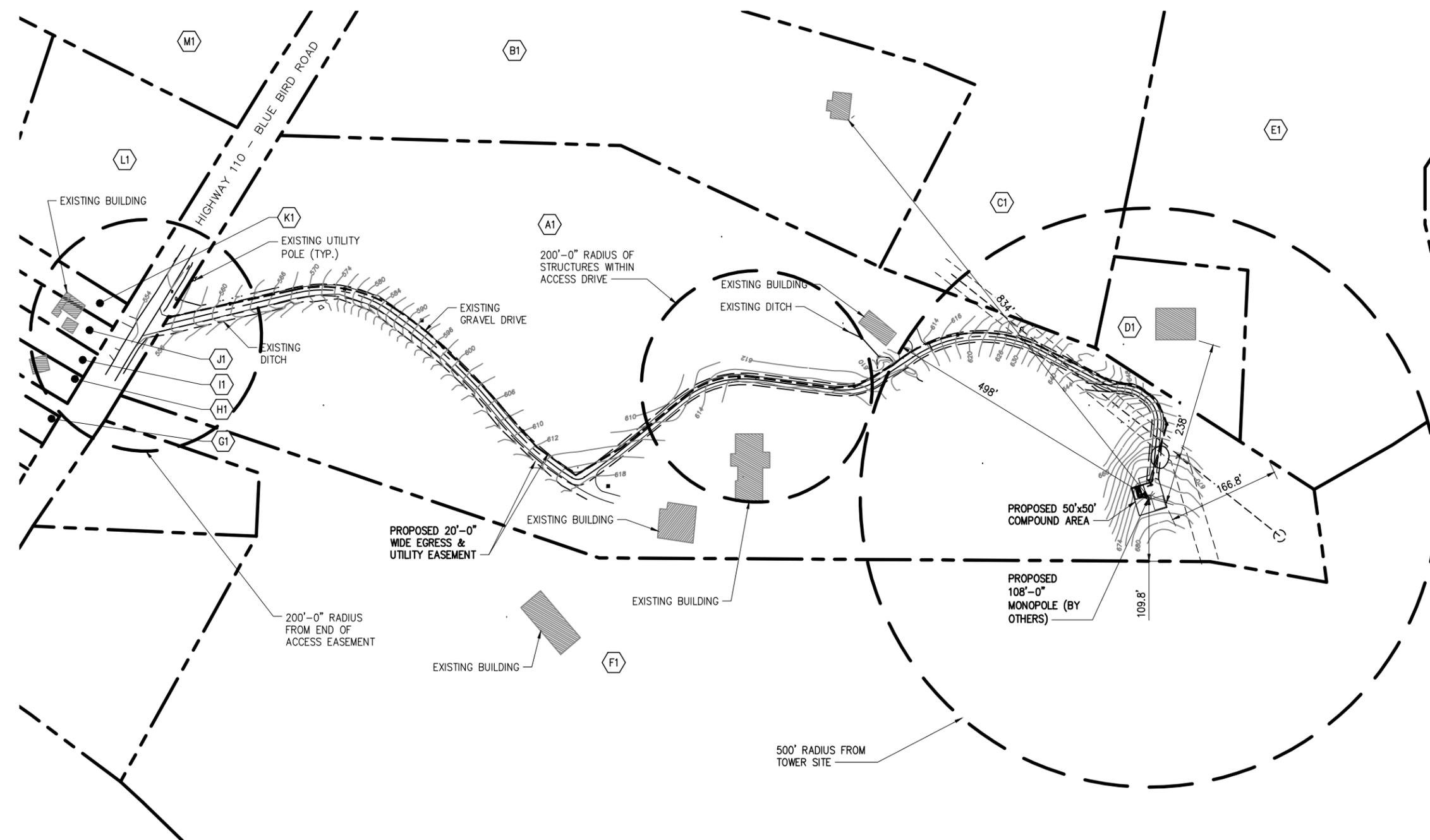
Drawing Scale:
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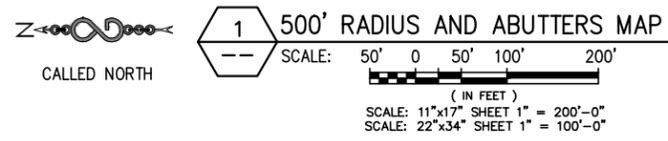
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Drawing Number
C2

DIRECTIONS:
 DEPART FROM 515 S MAIN ST., LEITCHFIELD, KY 42754, FOLLOW KY-54 W/OWENSBORO RD AND KY-79 N TO KY-110 IN FALLS OF ROUGH (17.2 MI). HEAD NORTH ON S MAIN ST TOWARD E SHAIN DR.(0.5 MI). AT PUBLIC SQUARE, TAKE THE 3RD EXIT ONTO W MAIN ST/W MAIN STREET Y/OWENSBORO RD. CONTINUE TO FOLLOW W MAIN ST. (1.0 MI). CONTINUE ONTO KY-54 W/OWENSBORO RD (10.0 MI). TURN RIGHT ONTO KY-79 N (5.8 MI). CONTINUE ON KY-110 TO YOUR DESTINATION (3.0 MI). TURN RIGHT ONTO KY-110 (0.4 MI). TURN RIGHT TO STAY ON KY-110 (0.9 MI). TURN LEFT TO STAY ON KY-110 (1.3 MI). TURN RIGHT (0.4 MI). FALLS OF ROUGH, KENTUCKY 40119



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



GRAYSON COUNTY KY PVA
 ERNIE PERKINS, PVA
 10 PUBLIC SQUARE
 LEITCHFIELD, KY 42754
 OFFICE: (270) 259-4838
 FAX: (270) 259-3918

PARCEL KEY:

- A1 PARCEL ID: 034-00-00-013
TERRY L. NEWTON & KIMBERLY D. NEWTON
2589 BLUE BIRD ROAD
FALLS OF ROUGH, KY 40119
- B1 PARCEL ID: 034-00-00-013.0D
ROGER & JANELLE NICOLAI
2663 BLUE BIRD RD
FALLS OF ROUGH, KY 40119
- C1 PARCEL ID: 034-00-00-013.0G
ROGER & JANELLE NICOLAI
2663 BLUE BIRD RD
FALLS OF ROUGH, KY 40119
- D1 PARCEL ID: 034-00-00-013.0J
ROGER & JANELLE NICOLAI
2663 BLUE BIRD RD
FALLS OF ROUGH, KY 40119
- E1 PARCEL ID: 034-00-00-013.0F
SHELTON ROBERT WAYNE JR & DEBRA R.
362 CHERRY HILL PARKWAY
MT WASHINGTON, KY 40047
- F1 PARCEL ID: 034-00-00-013.0C
COPPAGE MARTHA RAASCH
187 CHIPMUNK LN
FALLS OF ROUGH, KY 40119
- G1 PARCEL ID: FENTRS CS-057
LIVERS EMILY
36 CIRCLE HILL RD.
FALLS OF ROUGH, KY 40119
- H1 PARCEL ID: FENTRS CS-058
RITO HANNAH RENNEE & WHEATLEY TROY
21 CIRCLE HILL RD.
FALLS OF ROUGH, KY 40119
- I1 PARCEL ID: FENTRS CS-059
RITO HANNAH RENNEE & WHEATLEY TROY
21 CIRCLE HILL RD.
FALLS OF ROUGH, KY 40119
- J1 PARCEL ID: FENTRS CS-060
STREBLE NICHOLAS & WHITNEY
2878 WEAVERS RUN RD
WEST POINT, KY 40177
- K1 PARCEL ID: FENTRS CS-061
STREBLE NICHOLAS & WHITNEY
2878 WEAVERS RUN RD
WEST POINT, KY 40177
- L1 PARCEL ID: FENTRS CS-062
THOMPSON ADAM & MICHELS TRAVIS
261 N. SKYLINE DR.
LOUISVILLE, KY 40229
- M1 PARCEL ID: LOOK 0-000.0
FENTRESS GEORGE FAMILY LLC
2230 JUNCTION RD.
FALLS OF ROUGH, KY 40119

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREIN WAS OBTAINED FROM THE RECORDS OF THE GRAYSON COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 08/26/2024. THE PROPERTY VALUATION ADMINISTRATION MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO INACCURACIES AND TIME LAPSE IN UPDATING FILES. THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIM ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
3. NOT FOR RECORDING OR PROPERTY TRANSFER.



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Drawn: RCD Date: 06/30/21
 Designed: CES Date: 06/30/21
 Checked: C.W. Date: 06/30/21

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 2136-Z0001-C

Project Title
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 TI-OPP-17878
 FALLING BRANCH
 2589 BLUE BIRD ROAD
 FALLS OF ROUGH, KY 40119



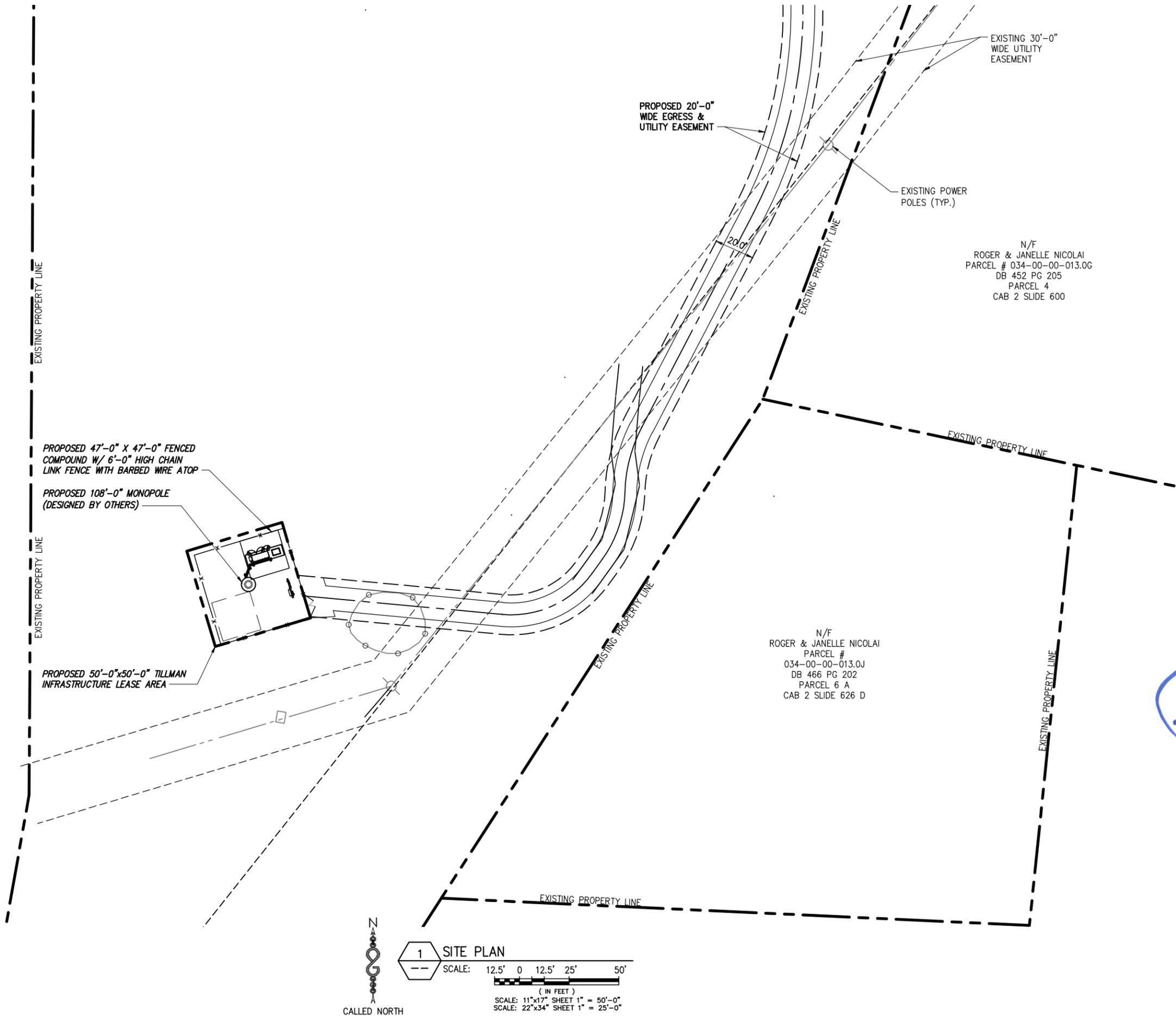
Drawing Title
 500' RADIUS AND
 ABUTTERS MAP &
 ADDRESSES

Drawing Scale:
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 Date:
 06/30/21
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Drawing Number
C3

N/F
 MARTHA RAASCH COPPAGE
 PARCEL # 034-00-00-013.0C
 DB 443 PG 459
 PARCEL 8
 CAB 2 SLIDE 600



PROPOSED 47'-0" X 47'-0" FENCED
 COMPOUND W/ 6'-0" HIGH CHAIN
 LINK FENCE WITH BARBED WIRE ATOP

PROPOSED 108'-0" MONOPOLE
 (DESIGNED BY OTHERS)

PROPOSED 50'-0" X 50'-0" TILLMAN
 INFRASTRUCTURE LEASE AREA

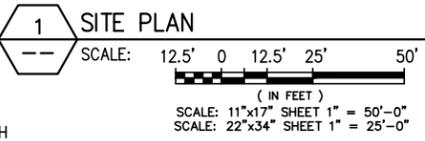
N/F
 ROGER & JANELLE NICOLAI
 PARCEL #
 034-00-00-013.0J
 DB 466 PG 202
 PARCEL 6 A
 CAB 2 SLIDE 626 D

EXISTING 30'-0"
 WIDE UTILITY
 EASEMENT

PROPOSED 20'-0"
 WIDE EGRESS &
 UTILITY EASEMENT

EXISTING POWER
 POLES (TYP.)

N/F
 ROGER & JANELLE NICOLAI
 PARCEL # 034-00-00-013.0G
 DB 452 PG 205
 PARCEL 4
 CAB 2 SLIDE 600



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 TI-OPP-17878
 FALLING BRANCH
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 FALLS CREEK, KY 40119



Drawing Title
 SITE PLAN

Drawing Scale:
 AS NOTED
 Date:
 06/30/21

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C3.1



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REYNOLDSBURG, OH 43068



152 W. 57TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677



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INFINIGY ENGINEERING, PLLC
500 W OFFICE CENTER DR, SUITE 150
FORT WASHINGTON, PA 19034
Office # (678) 444-4463

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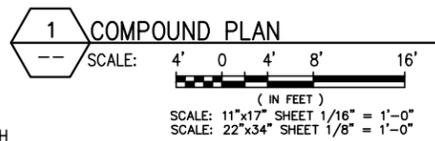
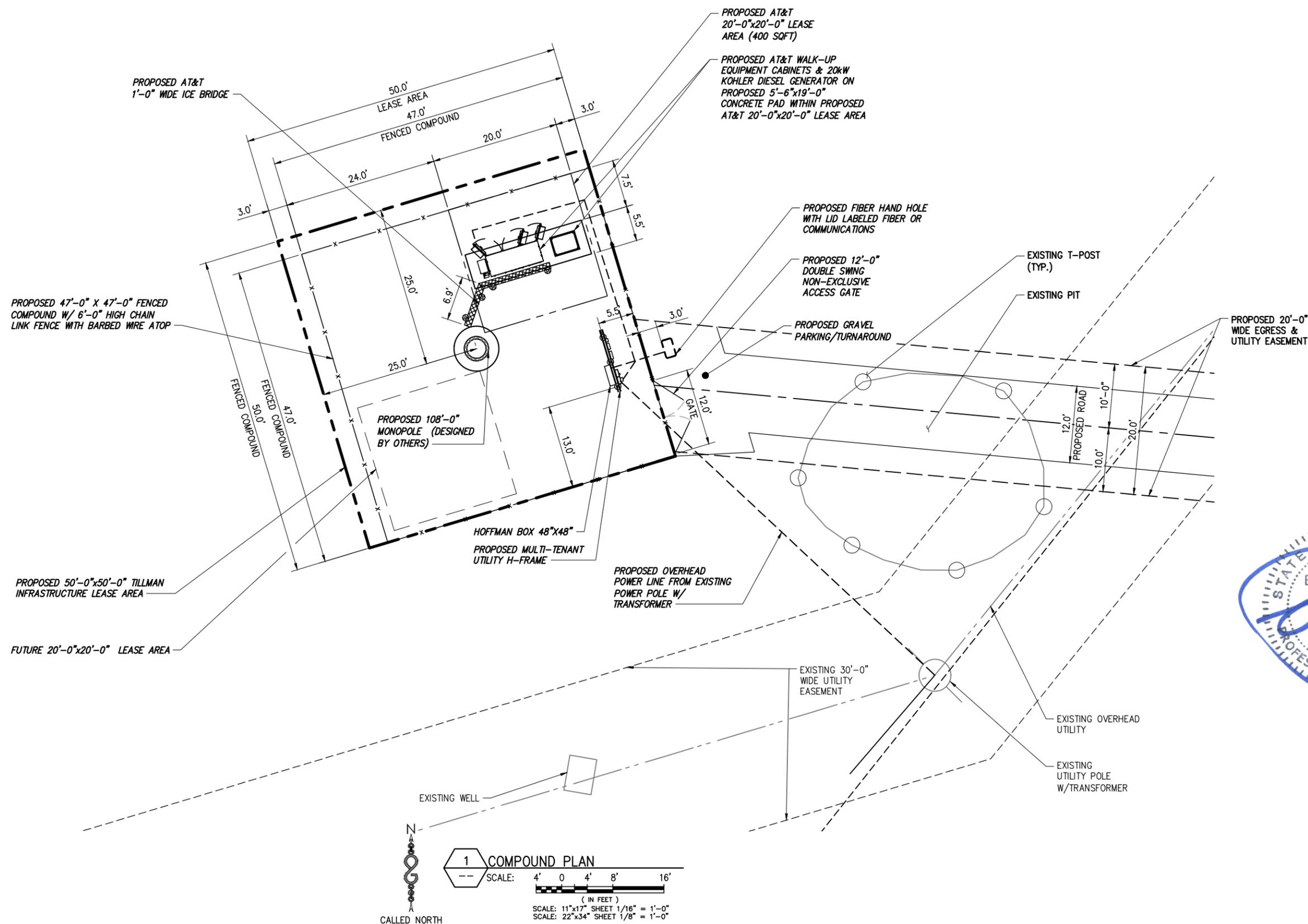


Drawing Title
COMPOUND PLAN

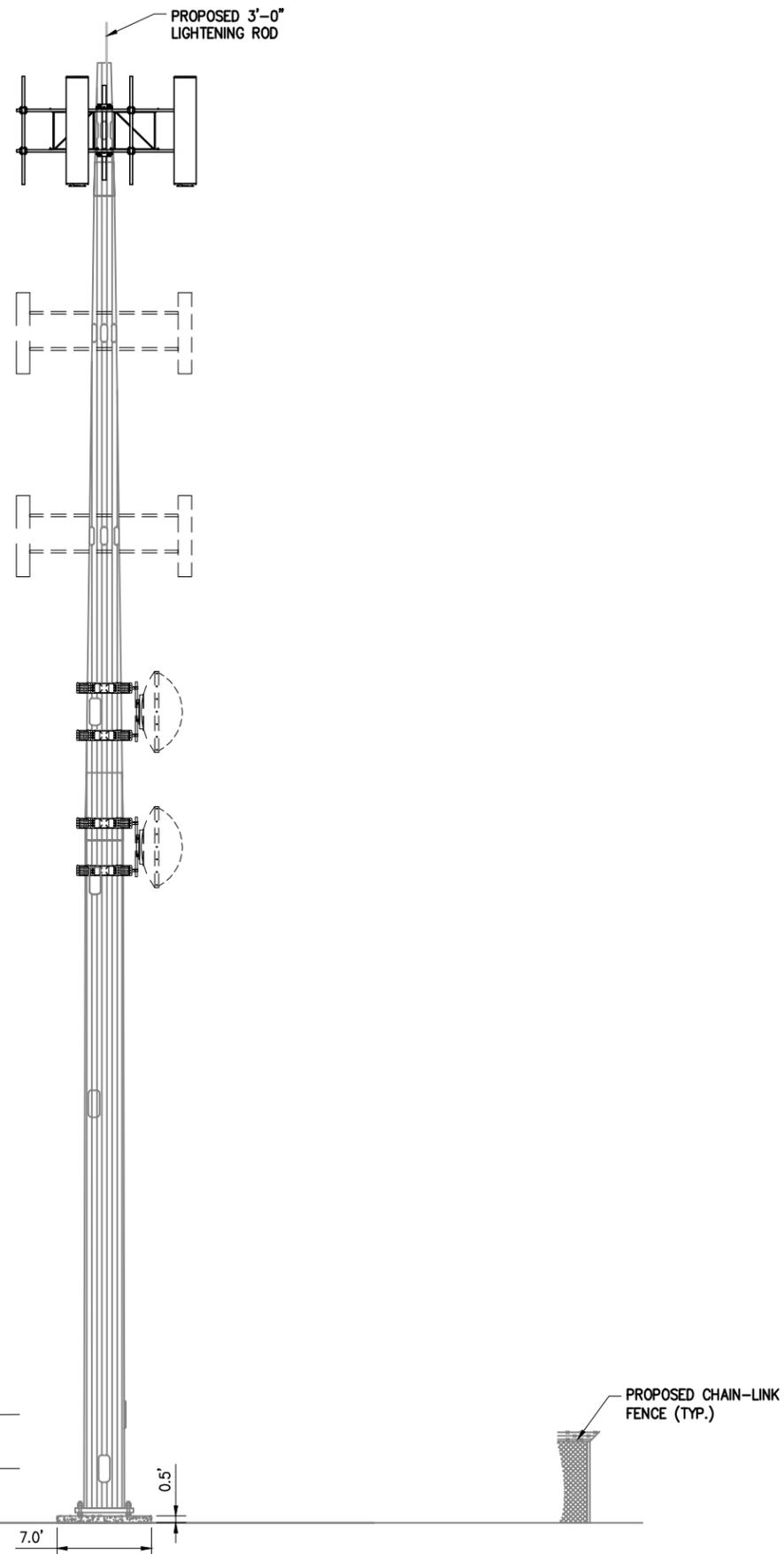
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Drawing Number
C4



- OVERALL HEIGHT
ELEV. = 111'-0" AGL
- TOP OF PROPOSED MONOPOLE
ELEV. = ±108'-0" AGL
- CL OF COAX PORT
ELEV. = ±103'-0" AGL
- CL OF PROPOSED ANTENNAS
ELEV. = ±103'-0" AGL
- CL OF COAX PORT
ELEV. = ±88'-0" AGL
- CL OF FUTURE ANTENNAS
ELEV. = ±88'-0" AGL
- CL OF COAX PORT
ELEV. = ±73'-0" AGL
- CL OF FUTURE ANTENNAS
ELEV. = ±73'-0" AGL
- CL OF FUTURE MICROWAVE DISH
ELEV. = ±60'-0" AGL
- CL OF FUTURE MICROWAVE DISH
ELEV. = ±50'-0" AGL
- CL OF COAX PORT
ELEV. = ±31'-0" AGL
- CL OF COAX PORT
ELEV. = ±8'-0" AGL
- CL OF COAX PORT
ELEV. = ±4'-0" AGL
- GRADE
ELEV. = ±0'-0" AGL



INFINIGY ENGINEERING HAS NOT EVALUATED THE TOWER OR LOADING FOR THIS SITE AND ASSUMES NO LIABILITY FOR THE STRUCTURAL INTEGRITY OF THE PROPOSED TOWER INSTALLATION. CONTRACTOR TO REFER TO TOWER DRAWINGS BY TOWER MANUFACTURER PRIOR TO CONSTRUCTION.

1 MONOPOLE ELEVATION
SCALE: NOT TO SCALE

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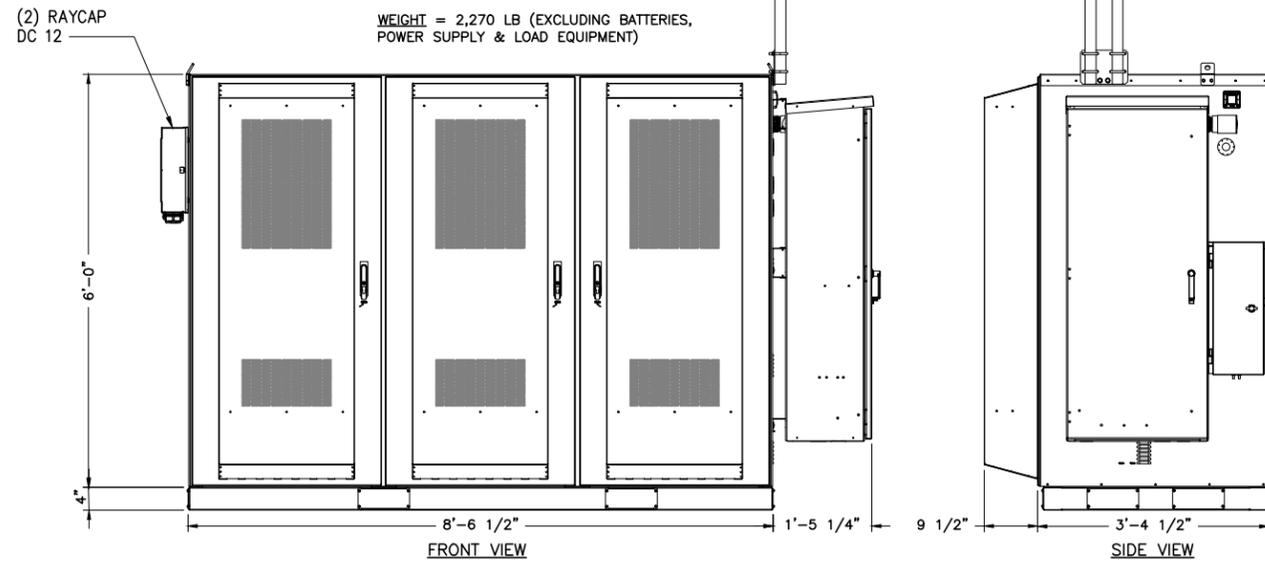


Drawing Title
TOWER ELEVATION

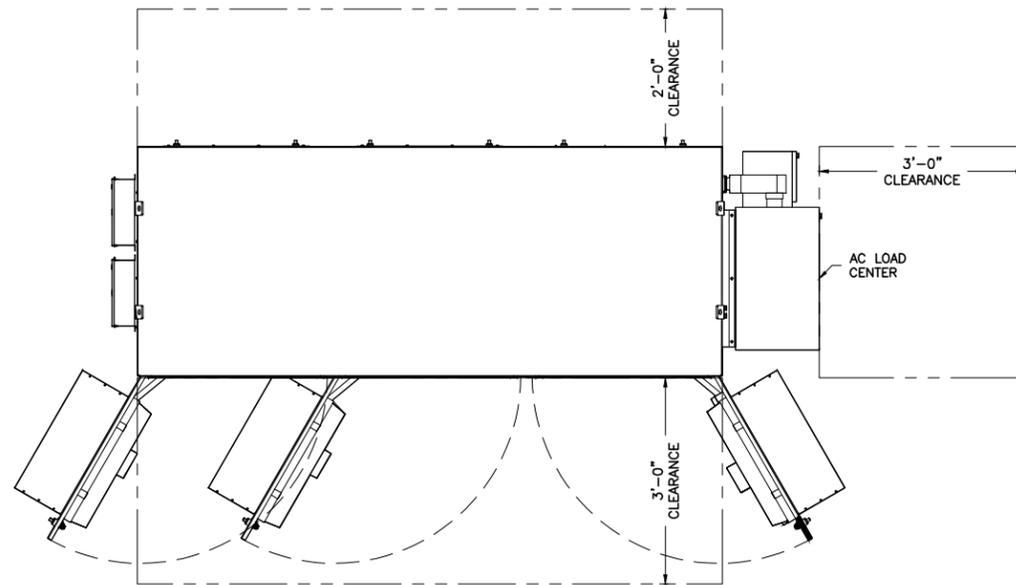
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Drawing Number
C5



1 WALK UP CABINET ELEVATIONS – DELTA ESOF030-HCU01
 --- NOT TO SCALE



2 WALK UP CABINET – DELTA ESOF030-HCU01 PLAN
 --- NOT TO SCALE

at&t
 MOBILITY CORP.
 8372 E. BROAD ST.
 REYNOLDSBURG, OH 43068

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Drawing Title
 WALK UP CABINET
 DETAILS

Drawing Scale:
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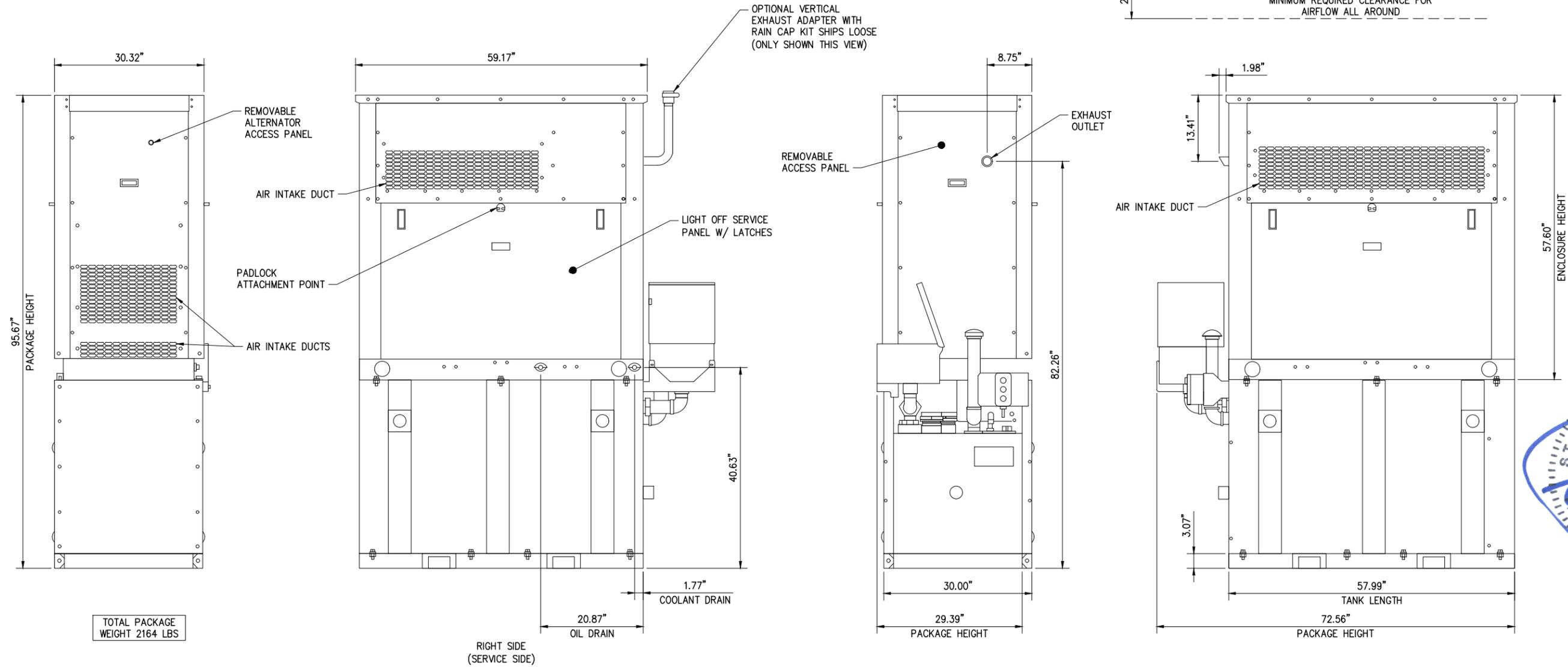
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Drawing Number
C7

NOTES:

1. ALL SIDES OF THE GENERATOR ARE SERVICE ACCESSIBLE
2. 6 AMP BATTERY CHARGER.
3. 120VAC ENGINE BLOCK HEATER.
4. 120VAC 80W BATTERY HEATER.
5. GENERATOR MUST BE GROUNDED.
6. SOUND ATTENUATED ENLOSURE STANDARD WITH GENERATOR.
7. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
8. MUST ALLOW FREE FLOW OF INTAKE AIR.
9. BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
10. TANK EQUIPPED WITH FIRE SAFETY VALVE ON FUEL SUPPLY LINE.
11. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.
12. GENERATOR IS INSTALLED ON A UL-142 RATED DOUBLE WALL SUBBASE FUEL TANK.



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Drawing Title
GENERATOR DETAILS

Drawing Scale:
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Drawing Number
C7.1

1 DIESEL GENERATOR – DIESEL GENERATOR (20 KW KOHLER ADV-9064)
NOT TO SCALE

AT&T 20KW KOHLER DIESEL COMPACT SOUND ENCLOSURE W/ 105 GAL STATE TANK



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Drawing Title

UTILITY H-FRAME
DETAILS

Drawing Scale:
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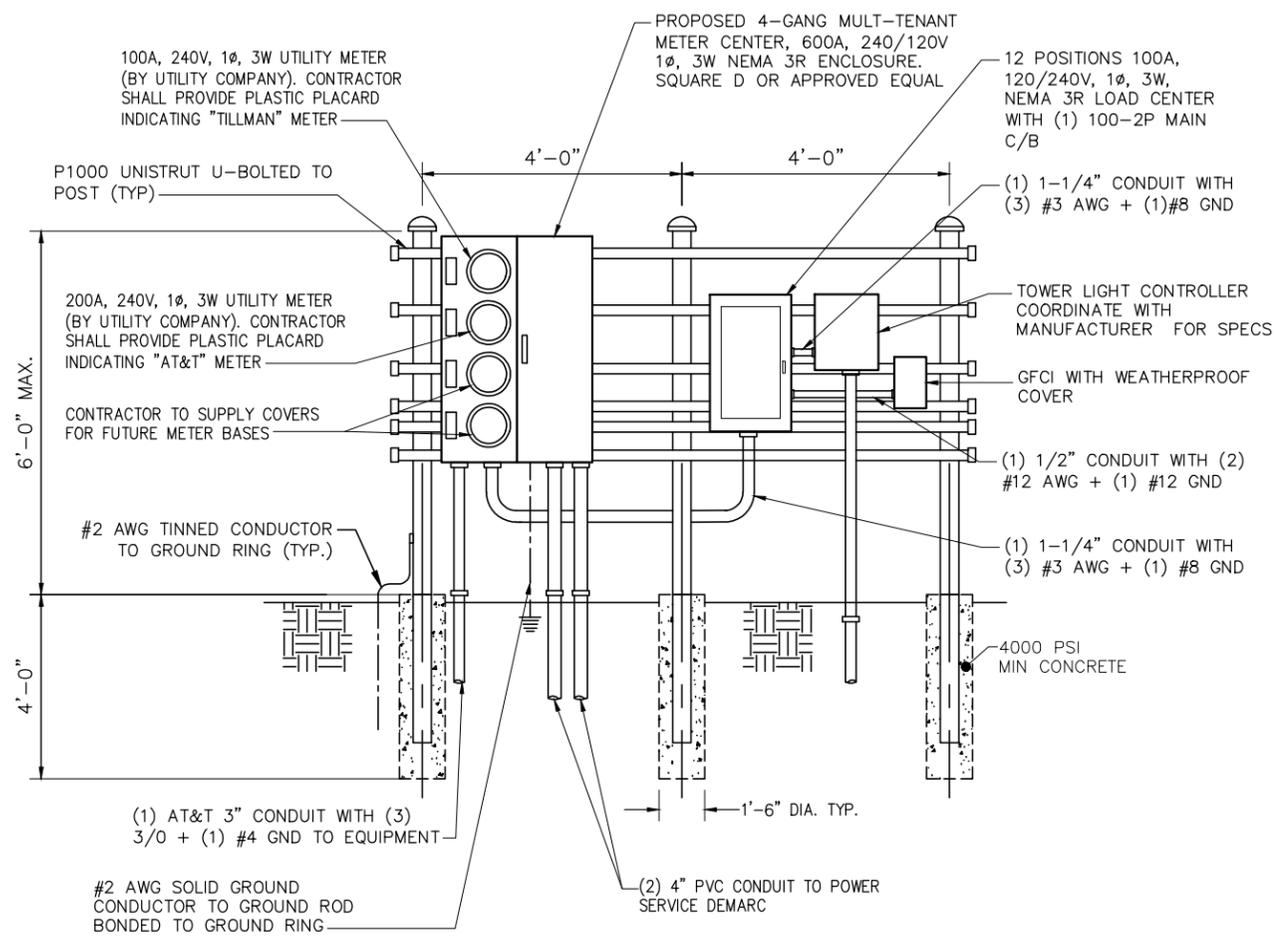
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06/30/21

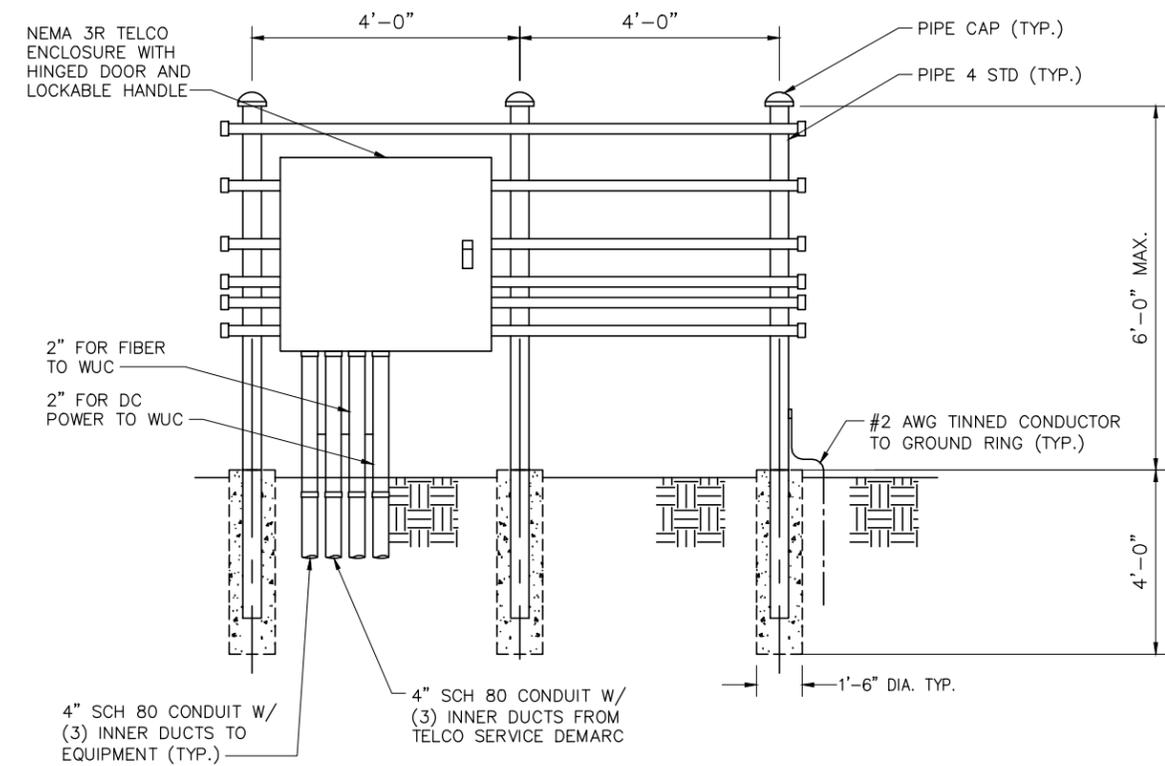
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C8

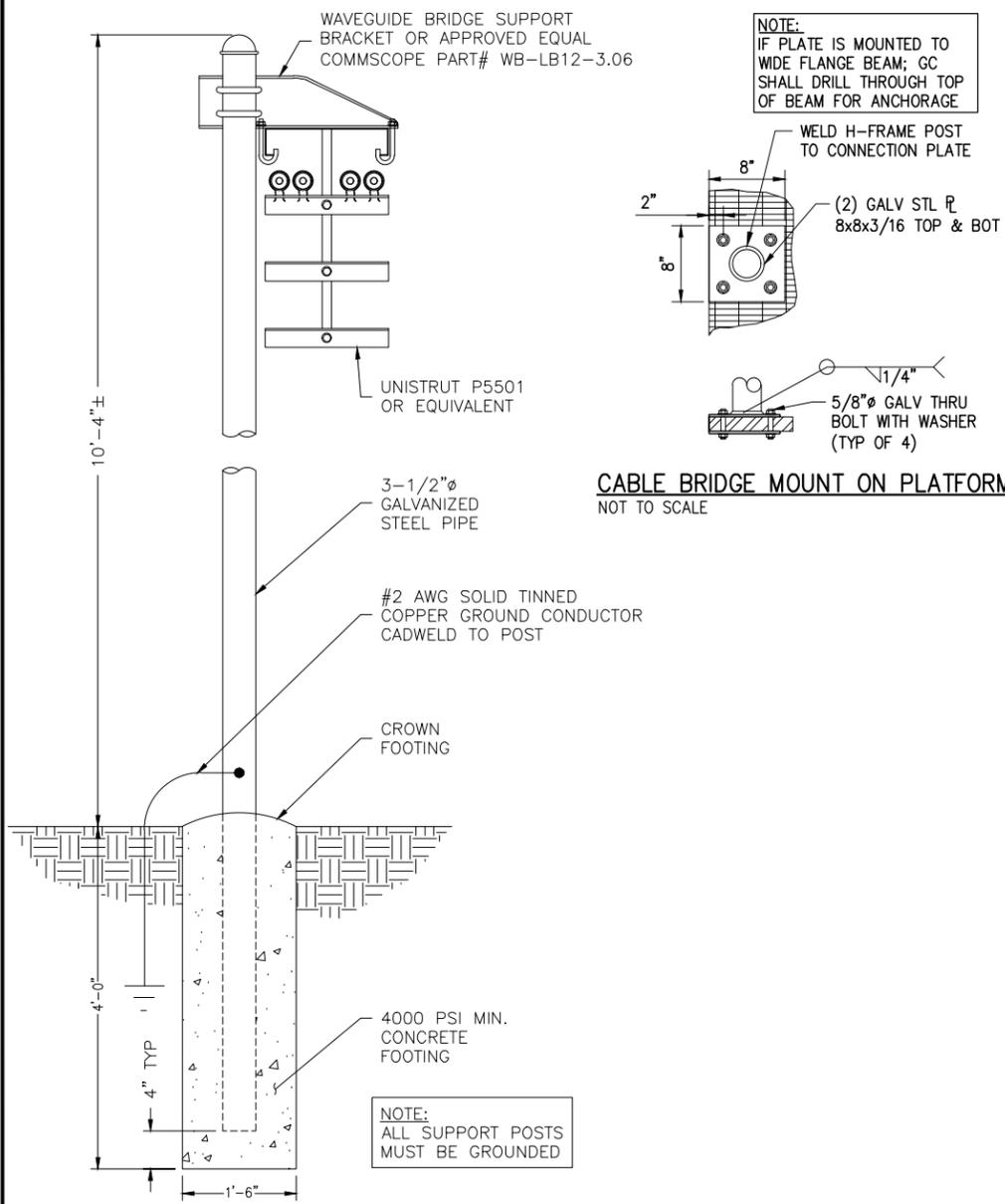


FRONT



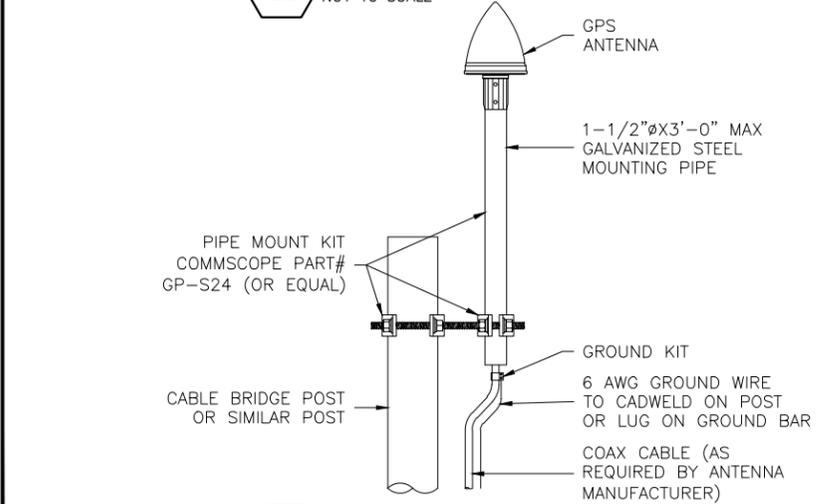
BACK

1 UTILITY BACKBOARD H-FRAME DETAIL
-- NOT TO SCALE

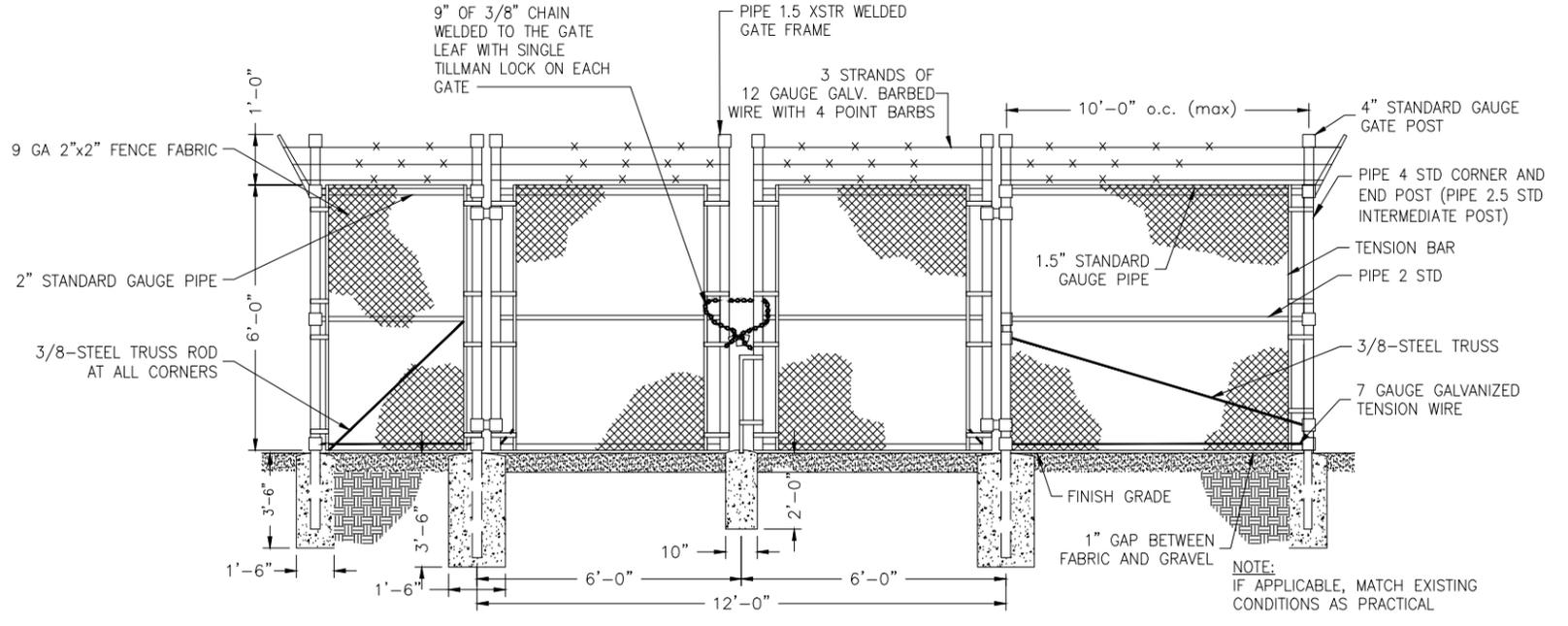


CABLE BRIDGE MOUNT ON PLATFORM
NOT TO SCALE

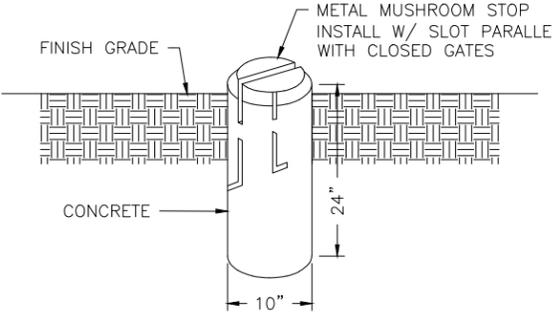
1 CABLE BRIDGE DETAIL
NOT TO SCALE



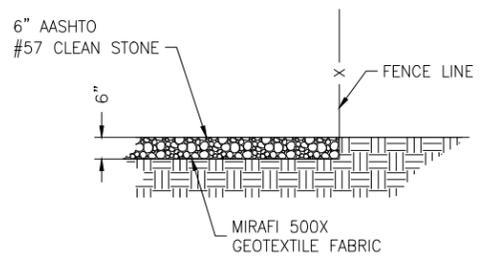
2 GPS ANTENNA MOUNTING DETAIL
NOT TO SCALE



3 TYPICAL FENCE AND GATE DETAIL
NOT TO SCALE

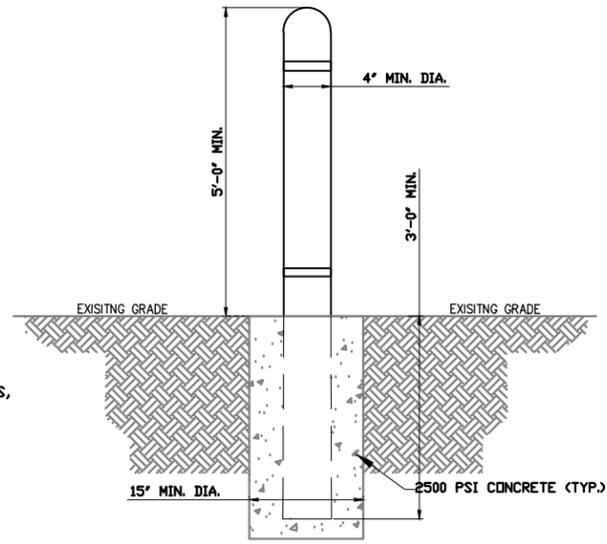


4 MUSHROOM STOP DETAIL
NOT TO SCALE



5 GRAVEL COMPOUND DETAIL
NOT TO SCALE

NOTE: INFINIGY HAS NOT EVALUATED THE TOWER, ANTENNA MOUNTS, OR EQUIPMENT ANCHORAGE FOR THIS SITE AND ASSUMES NO RESPONSIBILITY FOR ITS STRUCTURAL INTEGRITY AND STABILITY. REFER TO STRUCTURAL ANALYSIS, TOWER ANALYSIS, MOUNT ANALYSIS, AND/OR EQUIPMENT ANCHORAGE CALCULATIONS PREPARED BY OTHERS PRIOR TO ANY CONSTRUCTION.



6 BOLLARD DETAIL
NOT TO SCALE



11	ISSUED FOR CONSTRUCTION	JUD	11/14/24
10	ISSUED FOR CONSTRUCTION	JUD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
7	ISSUED FOR CONSTRUCTION	CS	07/15/24
6	ISSUED FOR CONSTRUCTION	RCD	05/29/24
5	ISSUED FOR CONSTRUCTION	CES	10/14/21
4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21
No.	Submittal / Revision	App'd	Date

Drawn: RCD Date: 06/30/21
Designed: CES Date: 06/30/21
Checked: CAW Date: 06/30/21

Project Number
2136-Z0001-C

Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119



Drawing Title
CONSTRUCTION DETAILS

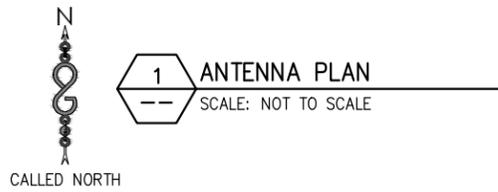
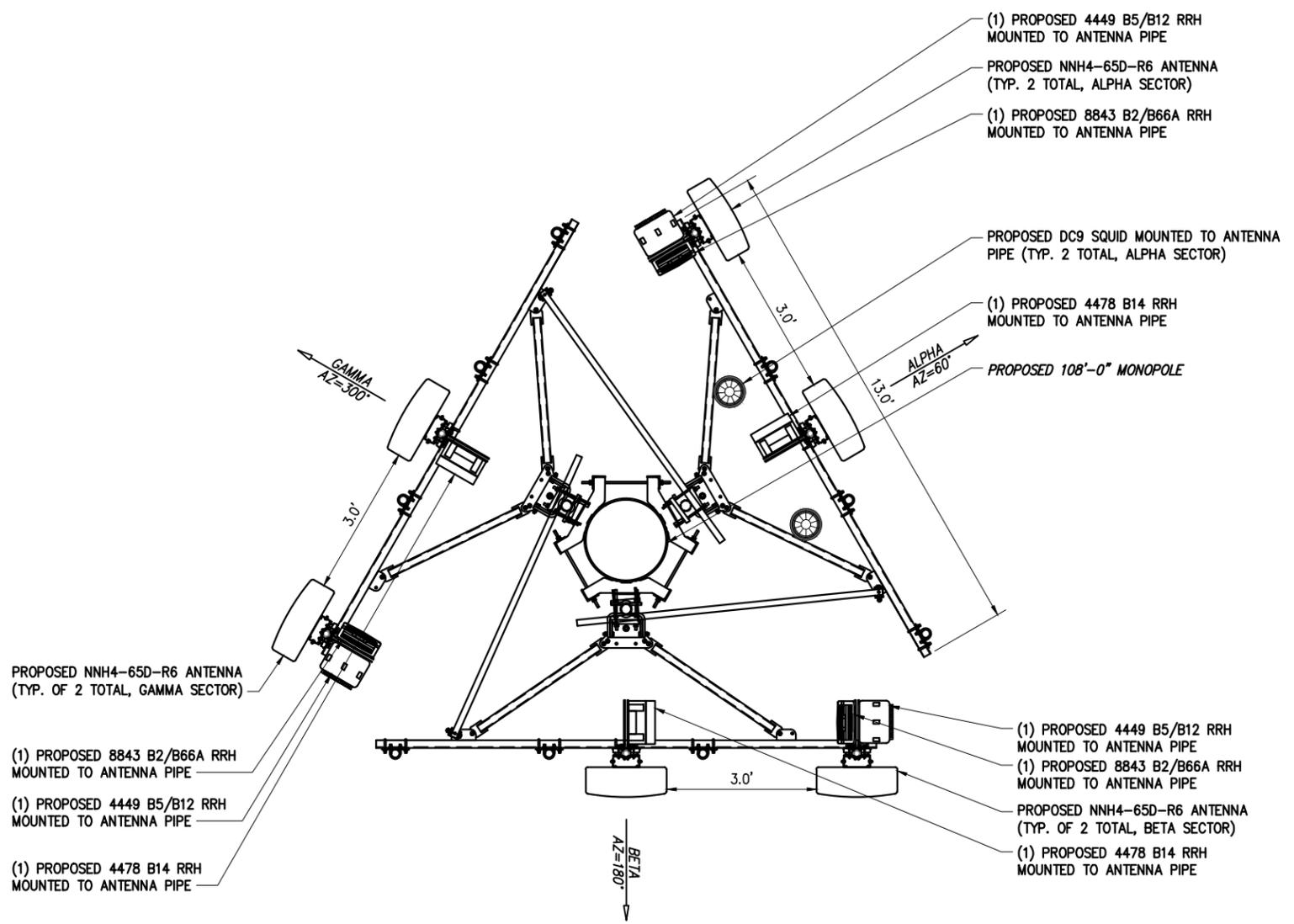
Drawing Scale:
AS NOTED
Date:
06/30/21
CD

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Drawing Number
C9

ANTENNA AND RRH SCHEDULE					
SECTOR	ANTENNA MODEL	TECHNOLOGY	AZIMUTH	ANTENNA HEIGHT	RRH MODEL
ALPHA	NNH4-65D-R6	5G 850 LTE 700/1900/AWS	60°	105'-0"±	(1) 4449 B5/B12 (1) 8843 B2/B66A
	-	-	-	-	-
	NNH4-65D-R6	LTE 700	60°	105'-0"±	(1) 4478 B14
	-	-	-	-	-
BETA	NNH4-65D-R6	5G 850 LTE 700/1900/AWS	180°	105'-0"±	(1) 4449 B5/B12 (1) 8843 B2/B66A
	-	-	-	-	-
	NNH4-65D-R6	LTE 700	180°	105'-0"±	(1) 4478 B14
	-	-	-	-	-
GAMMA	NNH4-65D-R6	5G 850 LTE 700/1900/AWS	300°	105'-0"±	(1) 4449 B5/B12 (1) 8843 B2/B66A
	-	-	-	-	-
	NNH4-65D-R6	LTE 700	300°	105'-0"±	(1) 4478 B14
	-	-	-	-	-

CABLE COUNT	
QUANTITY	CABLE TYPE
6	6 CONDUCTOR (3 PR) 3/4" DC CABLE
2	36 FIBER (18 PR) 10MM FIBER
2	2" INNERDUCT



11	ISSUED FOR CONSTRUCTION	JUD	11/14/24
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4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21
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2136-Z0001-C

Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CHURCH, KY 40119



Drawing Title
ANTENNA PLAN

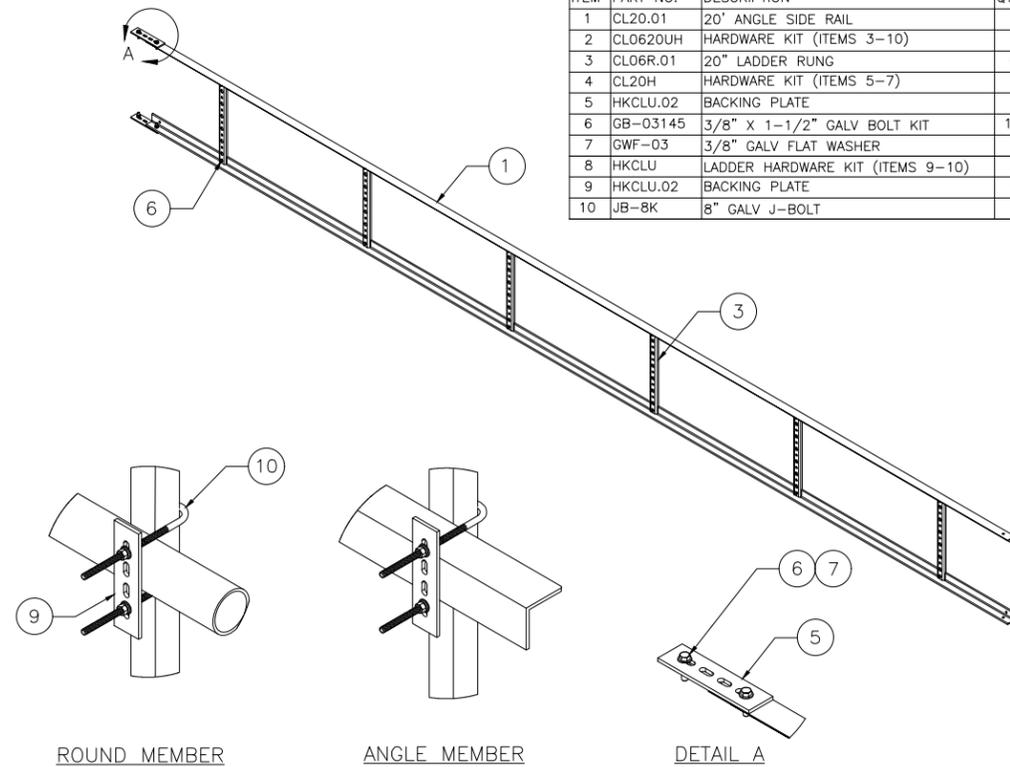
Drawing Scale:
AS NOTED
Date:
06/30/21

CD

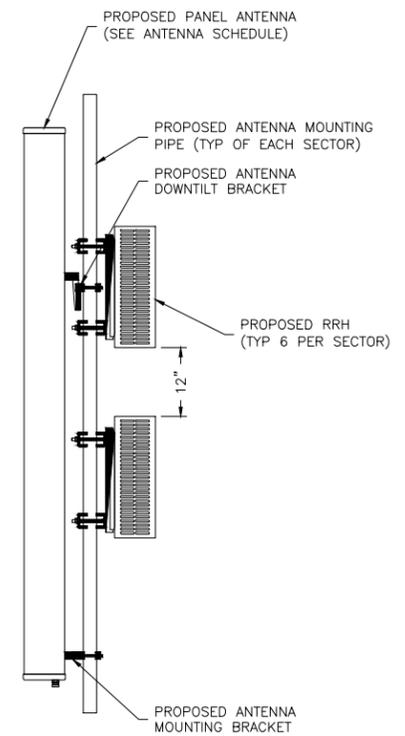
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Drawing Number
C10

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

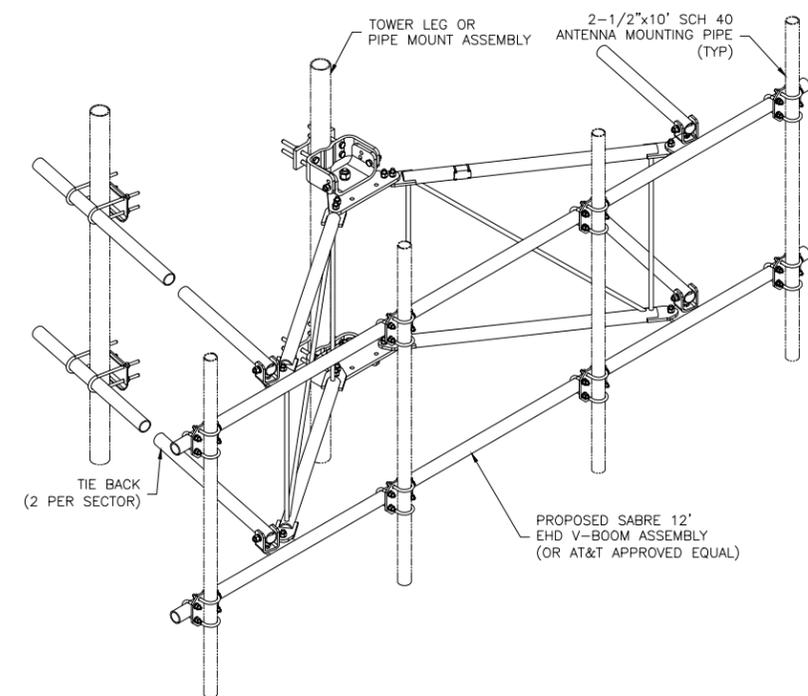


1 ANDREW CABLE LADDER CL-0620-U DETAIL
--- NOT TO SCALE



2 RRH MOUNTING DETAIL
--- NOT TO SCALE

APPROVED AT&T MOUNTS	
MANUFACTURER	MODEL
ADVANCED TOWER	HEAVY WLL-3-NP
BETTER METAL	BVM-U12K-WLL-3
COMMSCOPE	SFG2CT-12-B3
CONNECT-IT WIRELESS	3-PVFM12-3-B
KENWOOD TELECOM	T1672KT12-3S
NEWAVE	ATV-312-3
ROHN PRODUCTS	(3) KY2016A12 (3) KY1995A
SABRE	C10857007C
VALMONT	VFA10-HD3T5NP



3 ANTENNA MOUNT FRAME DETAIL
--- NOT TO SCALE

11	ISSUED FOR CONSTRUCTION	JJD	11/14/24
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Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119

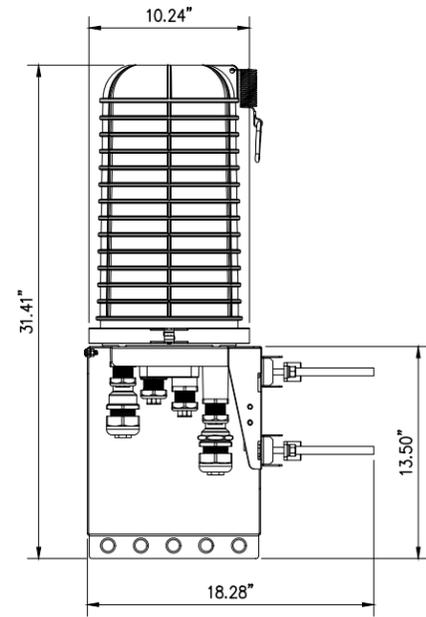


Drawing Title
DETAILS

Drawing Scale:
AS NOTED
Date:
06/30/21
CD

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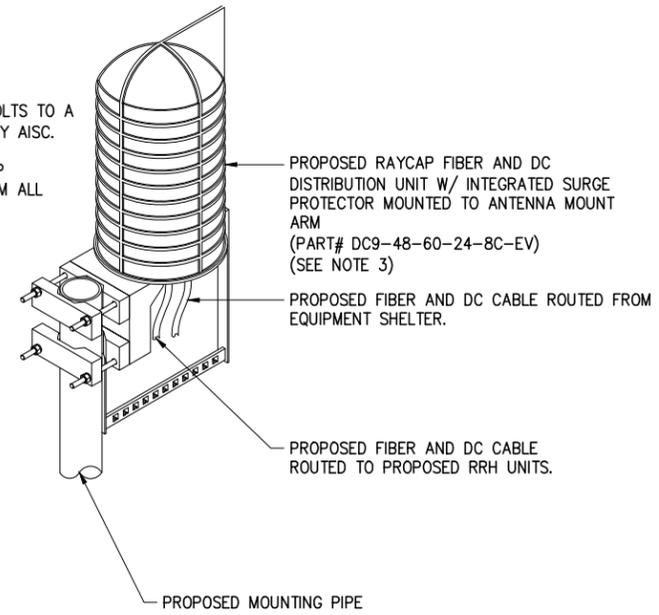
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C10.1



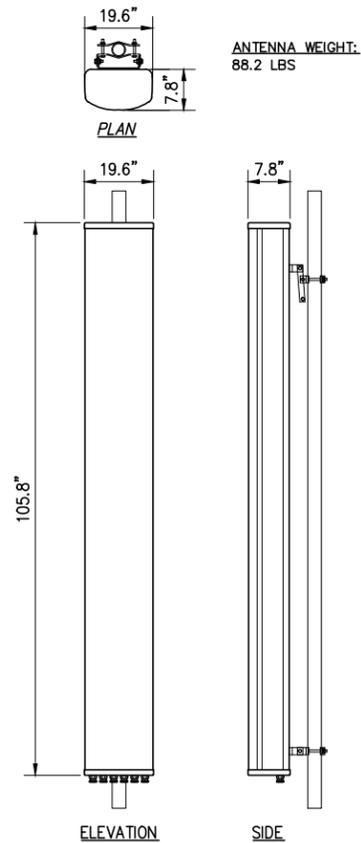
1 RAYCAP DC9-48-60-24-8C-EV DETAIL
 -- NOT TO SCALE

NOTES:

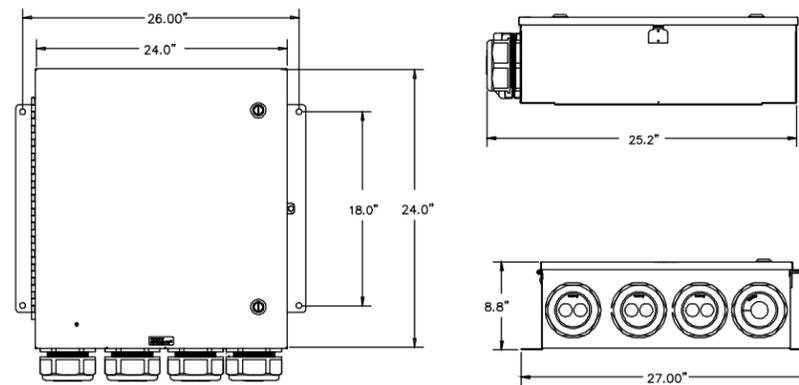
1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRHS.



2 RAYCAP MOUNTING DETAIL
 -- NOT TO SCALE



3 NNH4-65D-R6 ANTENNA DETAILS
 -- NOT TO SCALE



DC SURGE PROTECTION SOLUTIONS DC12-48-60-0-25E
 DIMENSIONS, HxWxD: 24.00"x24.00"x8.00"
 VOLTAGE PROTECTION RATING (VPR): 400V
 VOLTAGE PROTECTION RATING [Up]: 410V
 TOTAL WEIGHT: 56.3 lbs

4 DC12 SURGE PROTECTION DETAILS
 -- NOT TO SCALE



11	ISSUED FOR CONSTRUCTION	JJD	11/14/24
10	ISSUED FOR CONSTRUCTION	JJD	10/23/24
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4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21
No.	Submittal / Revision	App'd	Date

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 Checked: C.W. Date: 06/30/21

Project Number: 2136-Z0001-C

Project Title: 15346957 TI-OPP-17878 FALLING BRANCH 2589 BLUE BIRD ROAD FALLS CREEK, KY 40119



Drawing Title: DC6 & ANTENNA SPECIFICATIONS

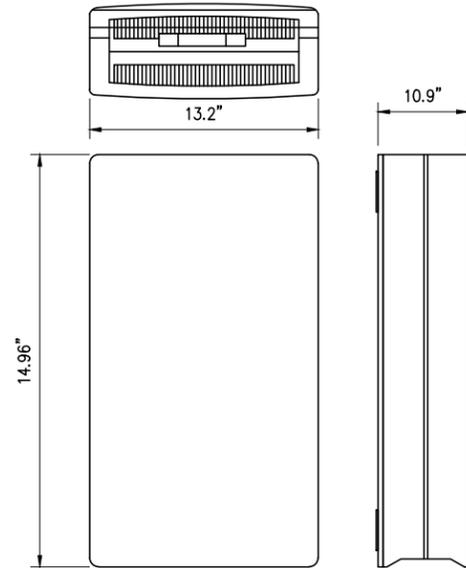
Drawing Scale: AS NOTED
 Date: 06/30/21
CD

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Drawing Number: **C11**

ERICSSON RRUS-8843 B2/B66A

- DIMENSIONS (H x W x D):
14.96" x 13.2" x 10.9" (INCLUDES SUNSHIELD)
- WEIGHT: 72.0 LBS
- B2: TX=1930-1990 MHz
RX=1850-1910 MHz
- B66: TX=2110-2180 MHz
RX=1710-1780 MHz
- CPRI 2 PORTS X 2.5/4.9/9.8/10.1 GBPS.

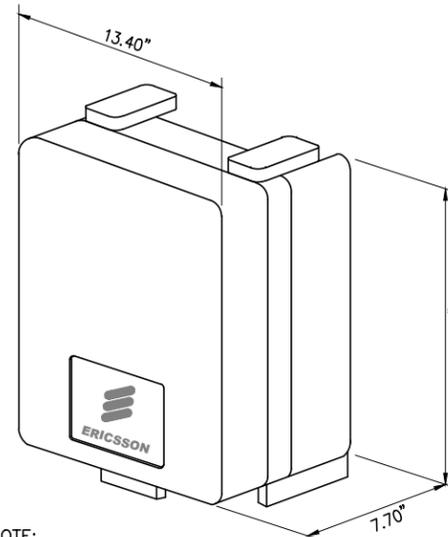


NOTE:
RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

1 ERICSSON RRUS 8843 B2/B66A
-- NOT TO SCALE

ERICSSON RRUS-4478 B14

- DIMENSIONS (H x W x D):
16.50" x 13.4" x 7.7" (INCLUDES SUNSHIELD)
- WEIGHT: 59.9 LBS
- TX=869-894 MHz
RX=824-849 MHz
- CPRI 2 PORTS X 2.5/4.9/9.8/10.1 GBPS.

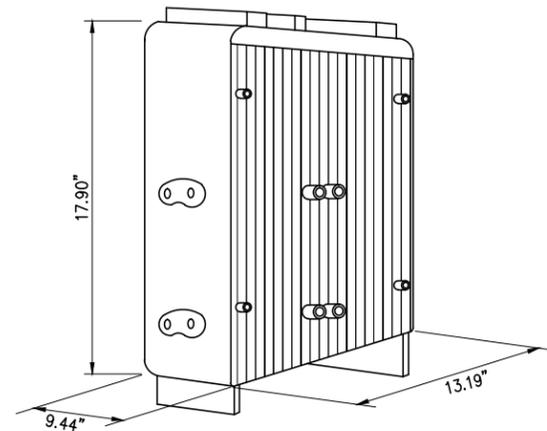


NOTE:
RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

2 ERICSSON RRUS 4478 B14
-- NOT TO SCALE

ERICSSON RRUS-4449 B5/B12

- DIMENSIONS (H x W x D):
17.90" x 13.19" x 9.44" (INCLUDES SUNSHIELD)
- WEIGHT: 71.0 LBS
- LTE: MAX 6 CARRIERS PER PORT (DL)
MAX 6 CARRIERS PER PORT (UL)
- CPRI SUPPORT- 2.5/4.9/9.8/10.1 GBPS.



NOTE:
RRUS CAN ONLY BE PAINTED ON SOLAR SHIELD.

3 ERICSSON RRUS 4449 B5/B12
-- NOT TO SCALE

11	ISSUED FOR CONSTRUCTION	JLD	11/14/24
10	ISSUED FOR CONSTRUCTION	JLD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
7	ISSUED FOR CONSTRUCTION	CS	07/15/24
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4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21
No.	Submittal / Revision	App'd	Date

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Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119

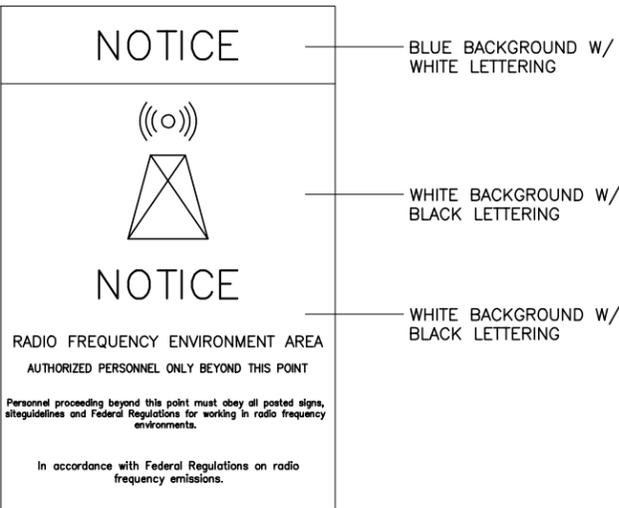


Drawing Title
RRU
DETAILS

Drawing Scale:
AS NOTED
Date:
06/30/21
CD

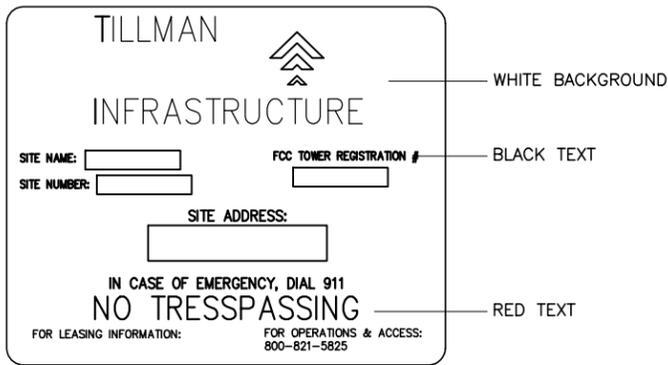
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Drawing Number
C12



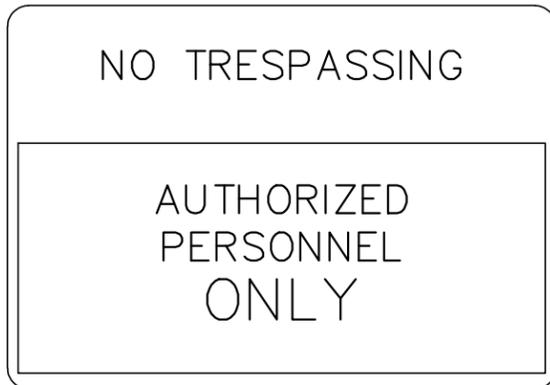
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MOUNTED ON .040
THICK ALUMINUM
(OPERATIONS PROVIDED)

1 NOTICE-RF SIGN (BLUE)
--- NOT TO SCALE



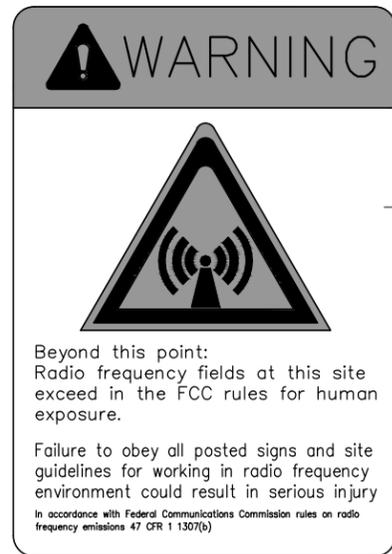
24"x30"
WHITE BACKGROUND, RED/BLACK LETTERING
QUANTITY: 1 OR 2

2 PROPERTY OF TILLMAN INFRASTRUCTURE
--- NOT TO SCALE



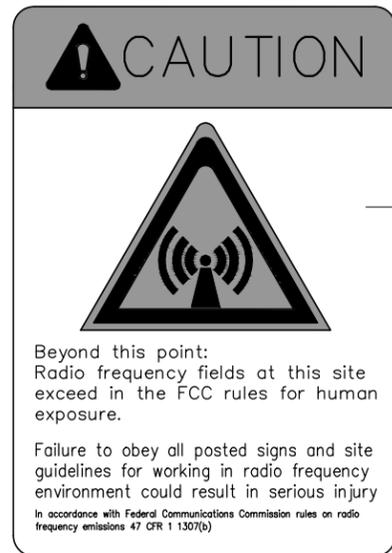
12"x18" .040
ALUMINUM

4 NO TRESPASSING SIGN
--- NOT TO SCALE



12"x18" DIGITAL PRINT
MOUNTED ON .040
THICK ALUMINUM
(OPERATIONS PROVIDED)

3 WARNING-RF SIGN
--- NOT TO SCALE



12"x18" DIGITAL PRINT
MOUNTED ON .040
THICK ALUMINUM
(OPERATIONS PROVIDED)

5 CAUTION-RF SIGN
--- NOT TO SCALE

SIGNAGE NOTES:

- SIGNS SHALL BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL & PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
- SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE HOG RINGS OR BRACKETS, WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METALS AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
- ADDITIONAL E911 ADDRESS AND FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
- CARRIER SITE # & EMERGENCY CONTACT SIGNS SHALL BE MOUNTED ON THE EQUIPMENT CABINET WITH PERMANENT SET ADHESIVE. TWO SIDED TAPE SHALL BE UTILIZED AT EACH CORNER OF THE BACKSIDE TO AVOID PLACEMENT UNTIL THE ADHESIVE SETS.

11	ISSUED FOR CONSTRUCTION	JD	11/14/24
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4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
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Project Number
2136-Z0001-C

Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLING BRANCH, KY 40119

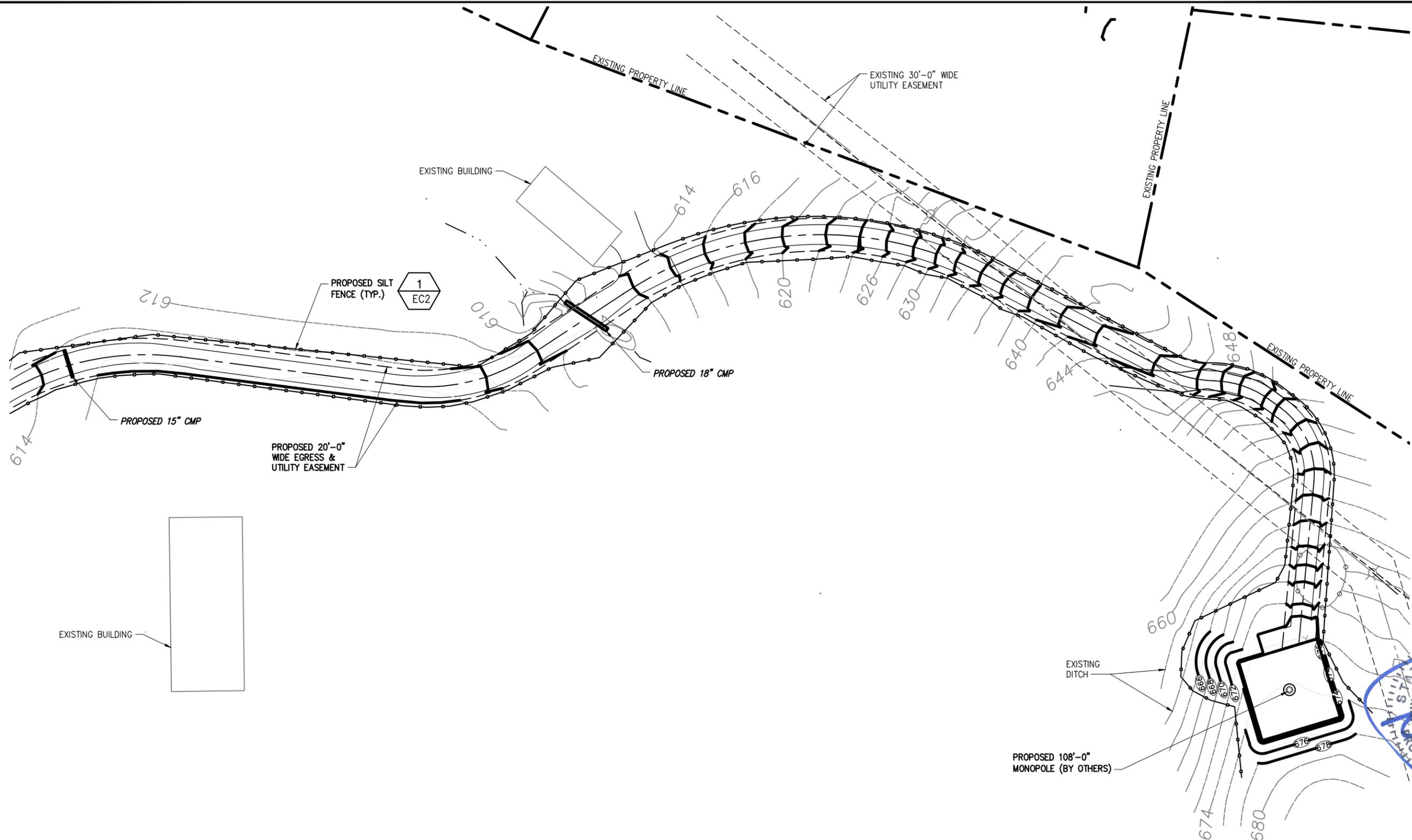


Drawing Title
SIGNAGE DETAILS

Drawing Scale:
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Date:
06/30/21
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Drawing Number
C13



11	ISSUED FOR CONSTRUCTION	JUD	11/14/24
10	ISSUED FOR CONSTRUCTION	JUD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
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Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119



Drawing Title
GRADING, EROSION
& SEDIMENT
CONTROL PLAN

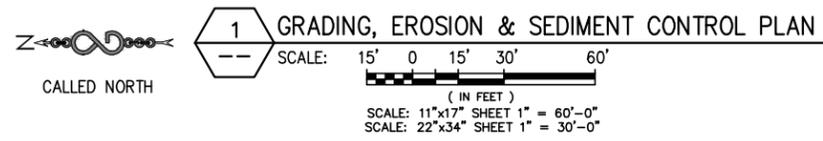
Drawing Scale:
AS NOTED
Date:
06/30/21
CD

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Drawing Number
EC1

LEGEND:

-----	EXISTING GRADING LINE
- - - - -	RELOCATED GRADING LINE
—————	NEW GRADING LINE



GRADING & EXCAVATING NOTES:

- ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
- ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
- AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
- USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND
-BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS
-BE PLACED IN 6" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS, WHERE 90% STANDARD PROCTOR
- REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW, STRIP, OR BREAK UP SLOPED SURFACES STEEPER THAN THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
- PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
- REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL GRAVEL RESURFACING MATERIAL AS REQUIRED. BEFORE GRAVEL SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE, SUBJECT TO ENGINEER'S APPROVAL.
- DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED/REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
- ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
- ALL CUT AND FILL SLOPES SHALL BE MAXIMUM 2 HORIZONTAL TO 1 VERTICAL.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING SITE VEHICLE TRAFFIC AS TO NOT ALLOW VEHICLES LEAVING THE SITE TO TRACK MUD ONTO PUBLIC STREETS. THE CONTRACTOR IS RESPONSIBLE FOR CLEANING PUBLIC STREETS DUE TO MUDDY VEHICLES LEAVING THE SITE.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

- THE SOIL EROSION AND SEDIMENT CONTROL MEASURES AND DETAILS AS SHOWN HEREIN AND STIPULATED WITHIN STATE STANDARDS SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
- PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR THE LOCAL JURISDICTION INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE.
- FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
- SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
- ALL CUT AND FILL SLOPES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
- CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

SEEDING GUIDELINES:

FINAL STABILIZATION OF ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, SHALL BE LOAMED AND SEEDED. LOAM SHALL BE PLACED AT A MINIMUM COMPACTED DEPTH OF 4". RECOMMENDED SEEDING DATES FOR PERMANENT VEGETATION SHALL BE BETWEEN JUNE 15 THROUGH AUGUST 1 AND SEPTEMBER 15 THROUGH OCTOBER 15. TEMPORARY VEGETATIVE MEASURES SHALL CONSIST OF AN ANNUAL OR PERENNIAL RYE GRASS WITH RECOMMENDED SEEDING DATES BEING FROM JUNE 1 THROUGH AUGUST 15 AND SEPTEMBER 30 THROUGH NOVEMBER 30.

EVALUATE PROPOSED COVER MATERIAL

BEFORE SPREADING COVER MATERIAL OVER THE DESIGNATED AREA, OBTAIN A REPRESENTATIVE SOIL SAMPLE AND SUBMIT TO A REPUTABLE SOIL TESTING LABORATORY FOR CHEMICAL AND PHYSICAL ANALYSIS. THE PRELIMINARY TEST IS NECESSARY TO DETERMINE THE REQUIRED INORGANIC AND/OR ORGANIC AMENDMENTS THAT ARE NEEDED TO ASSIST IN ESTABLISHING THE SEED MIXTURE IN AN ENVIRONMENTALLY AND ECONOMICALLY SOUND MANNER. THE RESULTS WILL GIVE THE COVER MATERIAL CHARACTERISTICS SUCH AS pH AND FERTILIZATION NEEDS. THESE RESULTS SHALL BE KEPT ON-SITE BY THE CONTRACTOR AND AVAILABLE FOR REVIEW BY THE COUNTY.

SEED BED PREPARATION

PROPOSED COVER MATERIAL SHOULD BE SPREAD EVENLY OVER THE SITE AREA IN A MINIMUM 4" LIFT VIA BULLDOZER/BUCKET LOADER. USING THE INFORMATION FROM THE SOIL ANALYSIS, CAREFULLY CALCULATE THE QUANTITIES OF LIMESTONE AND PRE-PLANT FERTILIZER NEEDED PRIOR TO APPLYING. PRE-PLANT AMENDMENTS CAN BE APPLIED WITH A BROADCAST AND/OR DROP SEEDER AND INCORPORATED WITH AN OFFSET DISK, YORK RAKE, AND/OR HAND RAKE. AFTER INCORPORATION THE PRE-PLANT SOIL AMENDMENTS, THE SEED BED SHOULD BE SMOOTH AND FIRM PRIOR TO SEEDING. THE FOLLOWING SEED MIXTURES SHALL BE USED AS NOTED:

SEED MIXTURE

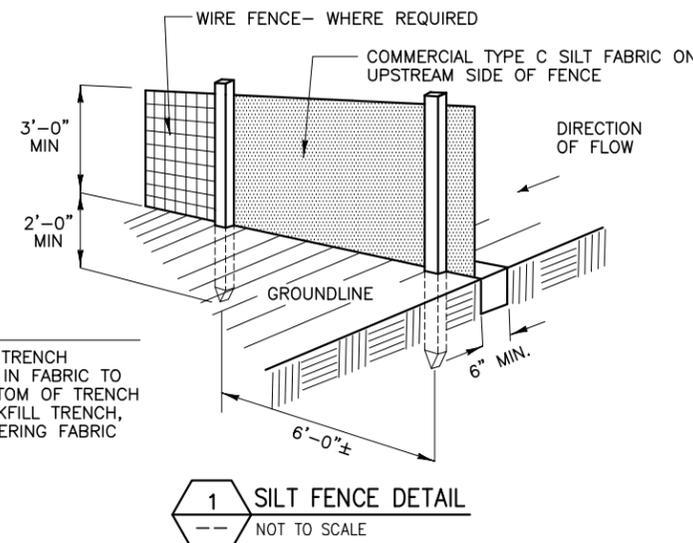
SPECIES/VARIETY	LBS/ACRE
CREeping RED FESCUE	20
KENTUCKY BLUEGRASS	20
PERENNIAL RYEGRASS	5

SEED TIME AND METHOD

THE PREFERRED TIME FOR SEEDING THE COOL SEASON MIXTURE IS LATE SUMMER. SOIL AND AIR TEMPERATURES ARE IDEAL FOR SEED GERMINATION AND SEEDING GROWTH. WEED COMPETITION IS REDUCED BECAUSE SEEDS OF MANY WEED SPECIES GERMINATE EARLIER IN THE GROWING SEASON. ADDITIONALLY, HERBICIDE USE IS GREATLY REDUCED. HOWEVER, SEEDING MAY BE DONE AT ANY OF THE ABOVE NOTED TIMES.

MULCHING

NEWLY SEEDER AREAS SHOULD BE MULCHED TO INSURE ADEQUATE MOISTURE FOR SUCCESSFUL TURF ESTABLISHMENT AND TO PROTECT AGAINST SURFACE MOVEMENT OF SEDIMENT-BOUND AGROCHEMICALS AND SOIL EROSION. IF MULCHING PROCEDURES ARE NOT SPECIFIED ON PLANS, APPLY GOOD QUALITY STRAW OR HAY AT A RATE OF 2 BALES/1000 SQ. FT. OTHER COMMERCIALY AVAILABLE MULCHES CAN BE USED.



- NOTE:
- DIG TRENCH
 - LAY IN FABRIC TO BOTTOM OF TRENCH
 - BACKFILL TRENCH, COVERING FABRIC

1 SILT FENCE DETAIL
NOT TO SCALE

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS: STEEL EITHER T OR U TYPE.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH: FILTER X, MIRAFI 100X' STABILINKA T140N OR APPROVED EQUAL.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. PREFABRICATED UNIT: GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
- ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES. D.O.T. QUALIFIED PRODUCTS LIST.



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Designed: CES Date: 06/30/21
Checked: C&W Date: 06/30/21

Project Number: 2136-Z0001-C

Project Title: 15346957 TI-OPP-17878 FALLING BRANCH 2589 BLUE BIRD ROAD FALLS CREEK, KY 40119



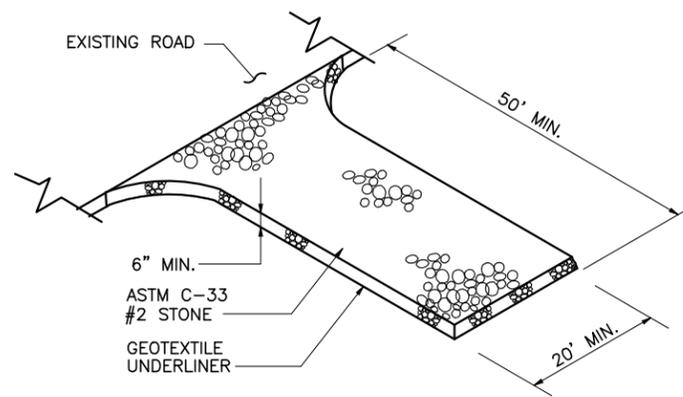
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Drawing Scale: AS NOTED
Date: 06/30/21
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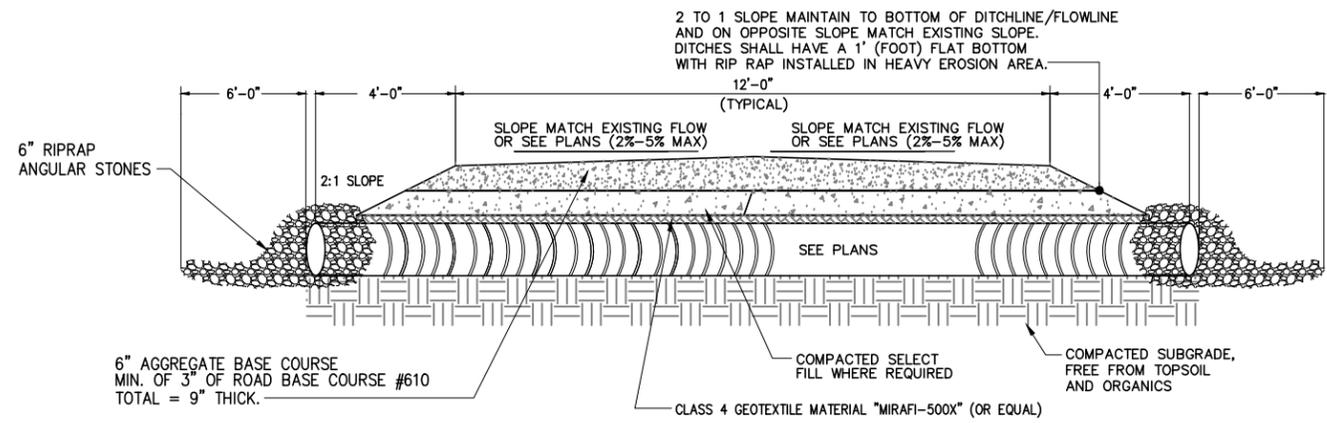
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NOTES:
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
-AGGREGATE IS BASED ON STANDARD AASHTO. ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.

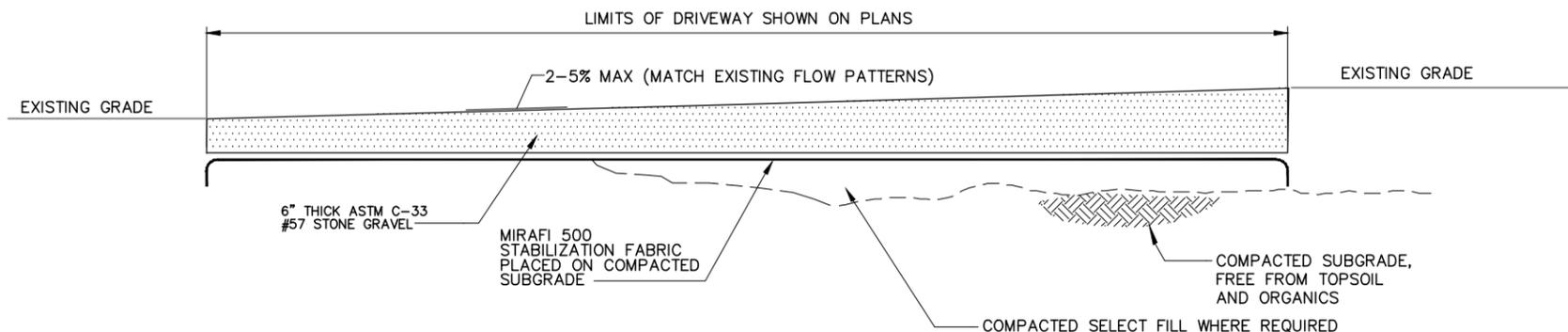


1 CONSTRUCTION EXIT DETAIL
--- NOT TO SCALE



2 DRIVEWAY SECTION AT CULVERT
--- NOT TO SCALE

NOTES:
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
-AGGREGATE IS BASED ON STANDARD AASHTO. ACCESS ROAD WIDTH ON EACH SIDE FOR PROPER SHOULDERING.



3 DRIVEWAY SECTION
--- NOT TO SCALE

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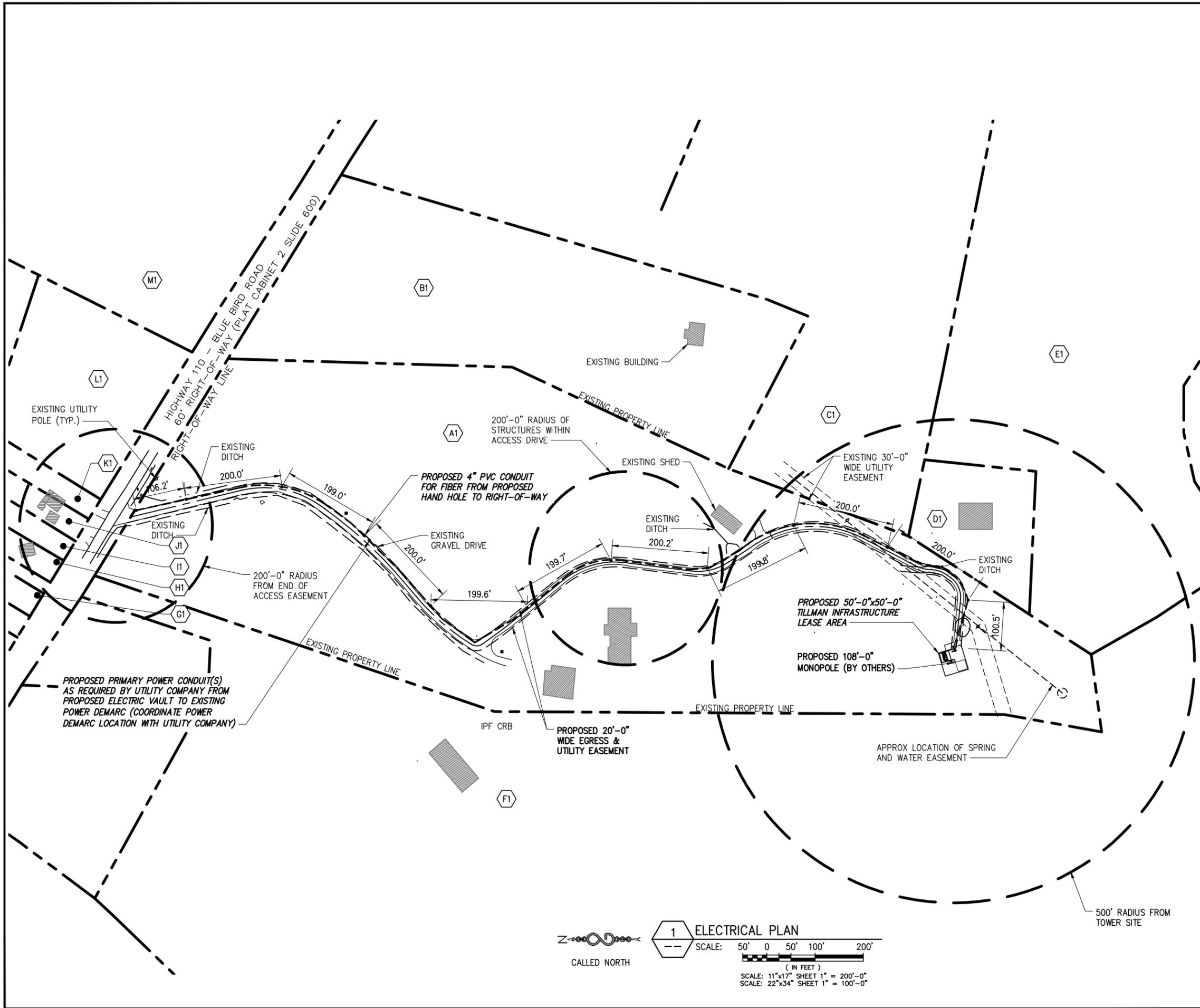


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PARCEL KEY:

- A1 PARCEL ID: 034-00-00-013
TERRY L. NEWTON & KIMBERLY D. NEWTON
2589 BLUE BIRD ROAD
FALLS OF ROUGH, KY 40119
- B1 PARCEL ID: 034-00-00-013.0D
ROGER & JANELLE NICOLAI
2663 BLUE BIRD RD
FALLS OF ROUGH, KY 40119
- C1 PARCEL ID: 034-00-00-013.0G
ROGER & JANELLE NICOLAI
2663 BLUE BIRD RD
FALLS OF ROUGH, KY 40119
- D1 PARCEL ID: 034-00-00-013.0J
ROGER & JANELLE NICOLAI
2663 BLUE BIRD RD
FALLS OF ROUGH, KY 40119
- E1 PARCEL ID: 034-00-00-013.0F
SHELTON ROBERT WAYNE JR & DEBRA R.
362 CHERRY HILL PARKWAY
MT WASHINGTON, KY 40047
- F1 PARCEL ID: 034-00-00-013.0C
COPPAGE MARTHA RAASCH
187 CHIPMUNK LN
FALLS OF ROUGH, KY 40119
- G1 PARCEL ID: FENTRS CS-057
LIVERS EMILY
36 CIRCLE HILL RD.
FALLS OF ROUGH, KY 40119
- H1 PARCEL ID: FENTRS CS-058
RITO HANNAH RENNEE & WHEATLEY TROY
21 CIRCLE HILL RD.
FALLS OF ROUGH, KY 40119
- I1 PARCEL ID: FENTRS CS-059
RITO HANNAH RENNEE & WHEATLEY TROY
21 CIRCLE HILL RD.
FALLS OF ROUGH, KY 40119
- J1 PARCEL ID: FENTRS CS-060
STREBLE NICHOLAS & WHITNEY
2878 WEAVERS RUN RD
WEST POINT, KY 40177
- K1 PARCEL ID: FENTRS CS-061
STREBLE NICHOLAS & WHITNEY
2878 WEAVERS RUN RD
WEST POINT, KY 40177
- L1 PARCEL ID: FENTRS CS-062
THOMPSON ADAM & MICHELS TRAVIS
261 N. SKYLINE DR.
LOUISVILLE, KY 40229
- M1 PARCEL ID: LOOK 0-000.0
FENTRESS GEORGE FAMILY LLC
2230 JUNCTION RD.
FALLS OF ROUGH, KY 40119

8372 E. BROAD ST.
REYNOLDSBURG, OH 43068

152 W. 57TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677

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Office # (678) 444-4163

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2589 BLUE BIRD ROAD
FALLS OF ROUGH, KY 40119

11/15/24

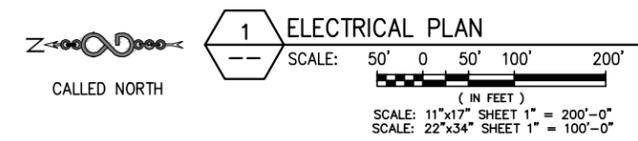
Drawing Title
ELECTRICAL PLAN

Drawing Scale:
AS NOTED

Date:
06/30/21

Drawing Number
E1

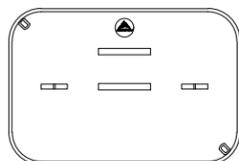
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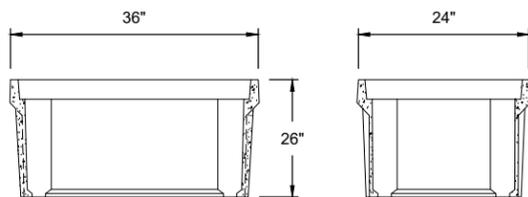
TILLMAN ELECTRICAL REFERENCE NOTES

- 1 PROPOSED TOWER LIGHT CONTROLLER. COORDINATE WITH TOWER MANUFACTURER FOR SPECIFICS.
- 2 PROPOSED 100A-2P MAIN CIRCUIT BREAKER FOR TILLMAN INFRASTRUCTURE.
- 3 PROPOSED 125A RATED, 120/240V-1Ø-3W, NEMA-3R, LOAD CENTER FOR TILLMAN INFRASTRUCTURE WITH (1) 100A-2P MAIN CIRCUIT BREAKER & 12 SPACE LOAD CENTER.
- 4 PROPOSED 200A, 240V, 1Ø, 3W UTILITY METER SOCKET PER UTILITY STANDARDS. PER ATTACHED ENGRAVED NAME PLATE INDICATING "TILLMAN INFRASTRUCTURE".
- 5 PROPOSED NEMA 3R TELCO ENCLOSURE

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(24" x 36" x 26")
WEIGHT	208.95 LBS
MANUFACTURER	QUAZITE
MODEL	PD2436BA26



PLAN



FRONT

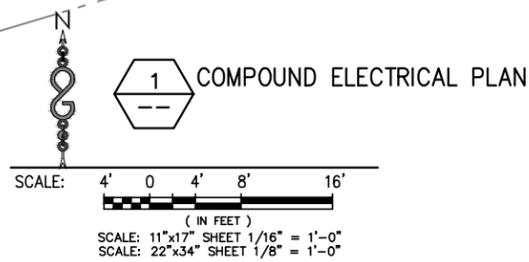
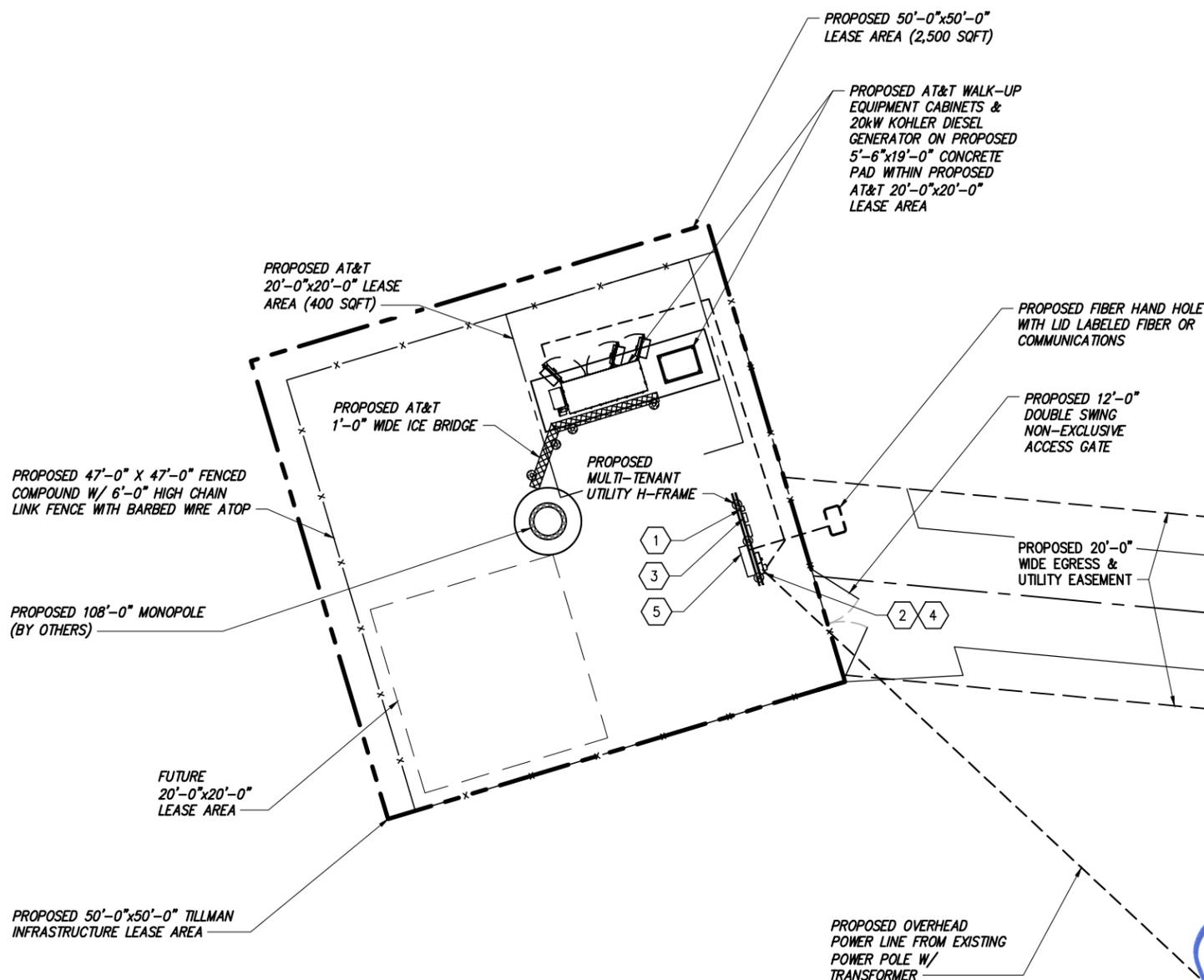
SIDE

NOTES:

- 1. LABEL AS "TELECOMMUNICATIONS"
- 2. THE BOTTOM OF THE HAND HOLE SHOULD BE LINED WITH 2 INCHES OF CLEAN # 57 GRAVEL
- 3. THE CONDUIT SHOULD ENTER AT A 45-DEGREE ANGLE AND BE 3 INCHES FROM THE TOP OF THE GRAVE, PROVIDING AT LEAST 18 INCHES OF CLEARANCE TO THE BOTTOM OF THE LID.
- 4. SITES BUILT FOR 'AT&T' OR OTHER CARRIERS; (1) HH SHOULD BE STENCILED TILLMAN WITH 3-INCH LETTERS AND THE OTHER STENCILED "FUTURE" WITH 3-INCH LETTERS.

PULLBOX DETAIL

NOTE:
UTILITY ROUTING/TERMINATION
POINTS ARE DIAGRAMMATIC &
MAY VARY FROM THAT SHOWN.



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Drawing Title
COMPOUND
ELECTRICAL PLAN

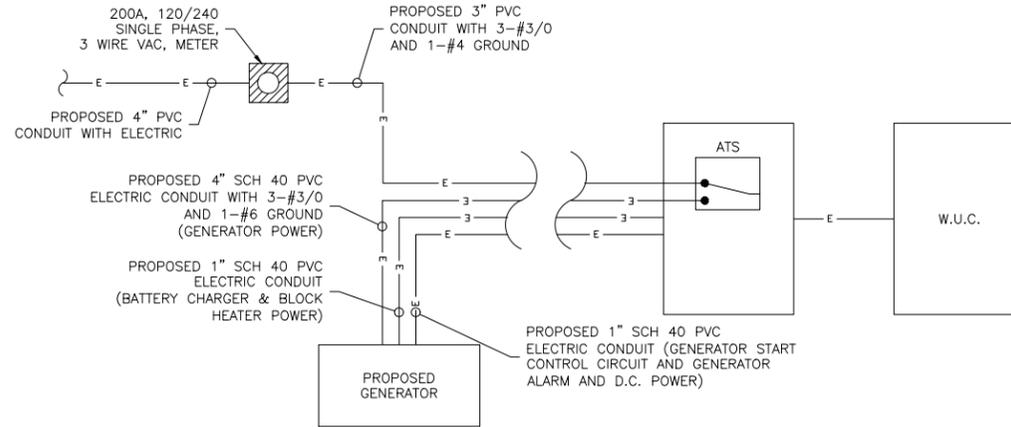
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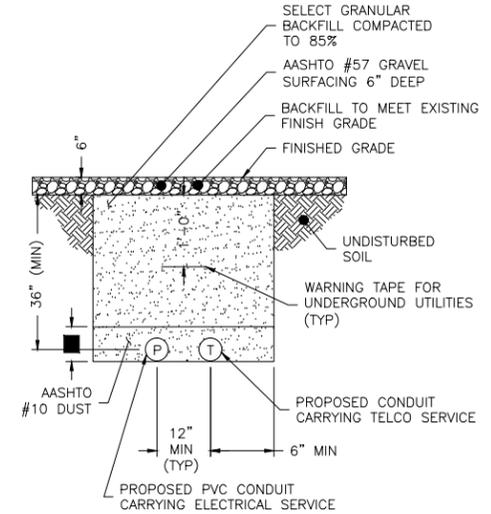
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ELECTRICAL NOTES

- 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 "I" 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 CONDUITS 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 CONDUITS SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUITS 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 CONDUITS 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.



1 POWER DIAGRAM
NOT TO SCALE



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

2 TYPICAL TRENCH DETAIL
NOT TO SCALE

INTEGRATED LOAD CENTER																							
LOAD			LOAD PER PHASE (VA)							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	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												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												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												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												RED		1400	1400	1		16
					BLK												BLK						18
					RED												RED						20
GFCI RECEPTACLES	2	180	180		BLK			12	(12)	20							BLK						22
OPTIONAL FIBER BOX RECEPTACLE	1	180	180		RED			12	(12)	20							RED						24
BATTERY CHARGER	1	240	240		BLK			12	(12)	20							BLK						26
BLOCK HEATER	1	500	500		RED			12	(12)	20							RED						28
OIL HEATER	1	180	180		BLK			12	(12)	20							BLK						30
SUBTOTAL CONTINUOUS			5,600	5,600													5,600	5,600	SUBTOTAL CONTINUOUS	TOTAL KVA CONTINUOUS x 1.25	28,000		
SUBTOTAL NON-CONTINUOUS			600	600													-	-	SUBTOTAL NON-CONTINUOUS	TOTAL KVA NON-CONTINUOUS	1280		
SUBTOTAL SUB-PANEL			-	-													-	-	SUBTOTAL SUB-PANEL	TOTAL KVA SUB-PANEL	-		
PANEL DESIGNATION: ELECTRICAL PANEL (ITEM 2)																					TOTAL KVA	29,280	
MAIN LUGS: N/A			MAIN BREAKER: 200 AMP			BRANCH BREAKER TYPE: SIEMENS - BL												TOTAL KVA	29,280				
VOLTAGE: 120/240			CYCLE: 60			PHASE: 1			WIRES: 3			MAIN COPPER BUS: 200 AMPS			NEUTRAL: 200 AMPS			TOTAL AMPS	122.0				



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REYNOLDSBURG, OH 43068



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NEW YORK, NEW YORK 10019
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2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119



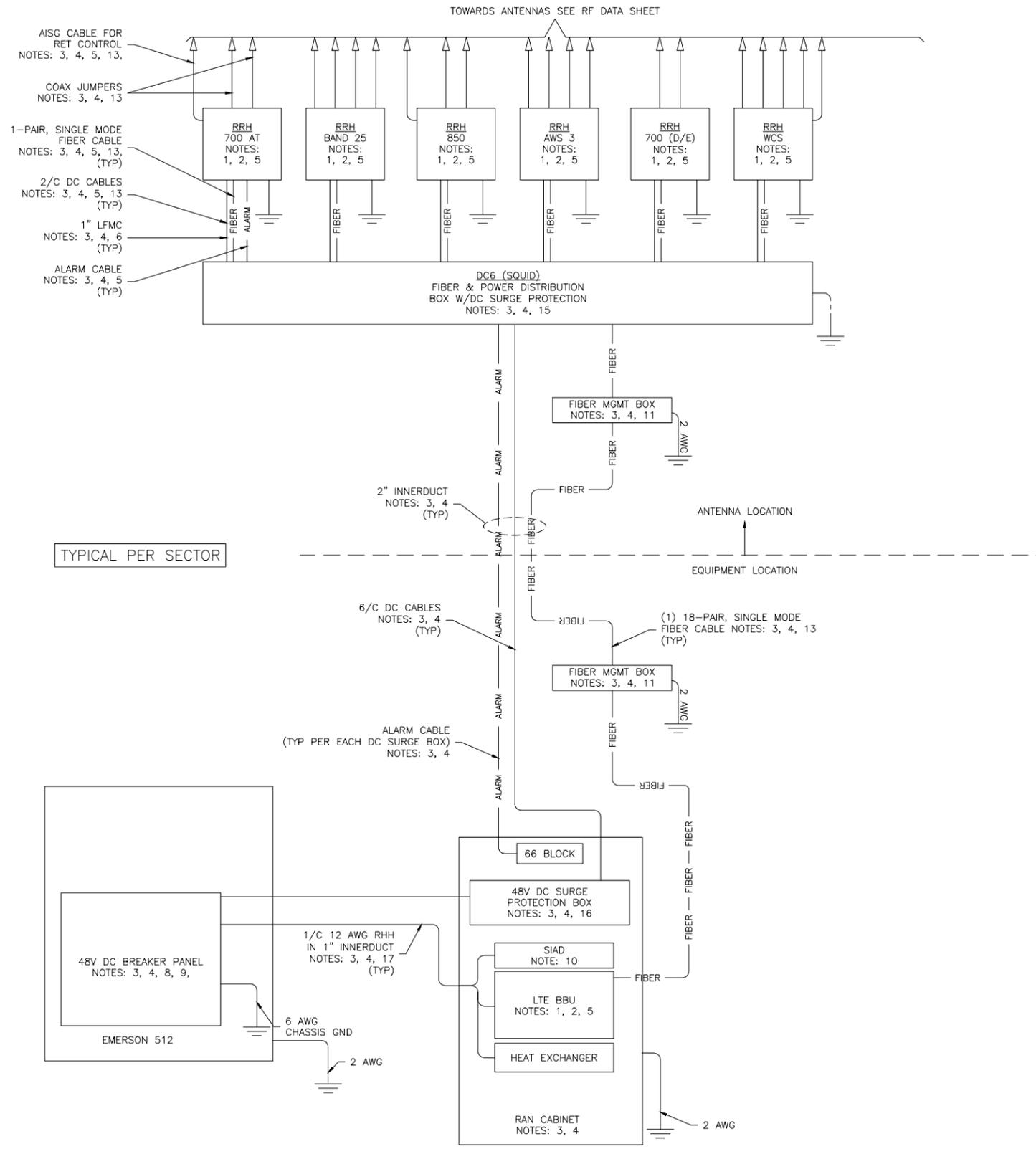
Professional Engineer
Douglas E. Hays
21727
11/15/24

Drawing Title
ELECTRICAL
PANEL SCHEDULE,
DIAGRAM & NOTES

Drawing Scale:
AS NOTED
Date:
06/30/21
CD

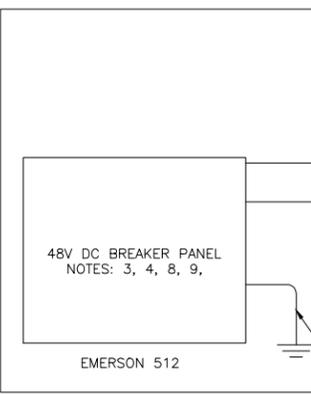
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Drawing Number
E3



AISG CABLE FOR RET CONTROL
NOTES: 3, 4, 5, 13,
COAX JUMPERS
NOTES: 3, 4, 13
1-PAIR, SINGLE MODE FIBER CABLE
NOTES: 3, 4, 5, 13, (TYP)
2/C DC CABLES
NOTES: 3, 4, 5, 13 (TYP)
1" LPMC
NOTES: 3, 4, 6 (TYP)
ALARM CABLE
NOTES: 3, 4, 5 (TYP)

TYPICAL PER SECTOR



1 TYPICAL DC/FIBER SYSTEM DIAGRAM
NOT TO SCALE

NOTES:

- FURNISHED BY OEM/AT&T.
- INSTALLED BY OEM OR AS SCOPED BY MARKET.
- FURNISHED BY OTHERS.
- INSTALLED BY OTHERS.
- FINAL CONNECTION BY OEM OR AS SCOPED BY MARKET.
- OPEN END OF LFMC TO BE LEFT WEATHERPROOFED UNTIL TERMINATED.
- DELETED.
- BREAKERS SPECIFIED SOLD SEPARATELY.
- BREAKERS TO BE TAGGED AND LOCKED OUT.
- 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.
- FIBER MANAGEMENT BOX IS J-SOURCE MODEL 12126FM4SEC.
- LEC TO FURNISH AND INSTALL NETWORK INTERFACE DEVICE.
- LEAVE COILED AND PROTECTED UNTIL TERMINATED.
- SEE DETAIL 1408 FOR DC POWER CABLE SIZES.
- FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-18-8F.
- POWER DISTRIBUTION W/DC SURGE PROTECTION BOX SHALL BE RAYCAP MODEL DC6-48-60-0-18.
- 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.
- 10A FUSE FOR HEAT EXCHANGER FURNISHED AND INSTALLED BY OTHERS.
- DELETED.
- 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.
- RET CONTROL FROM THE RRH IS AN OPTIONAL METHOD OF CONNECTION. REFER TO RF DATA SHEET FOR APPLICABILITY.
- DELETED.
- FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC6-48-60-0-1E.
- FIBER MANAGEMENT BOX IS COMMSCOPE MODEL FB 18188.
- FIBER AND POWER DISTRIBUTION BOX 4/48V SURGE SHALL BE RAYCAP MODEL DC12-48-60-0-25E.



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Project Title: 15346957 TI-OPP-17878 FALLING BRANCH 2589 BLUE BIRD ROAD FALLS CREEK, KY 40119

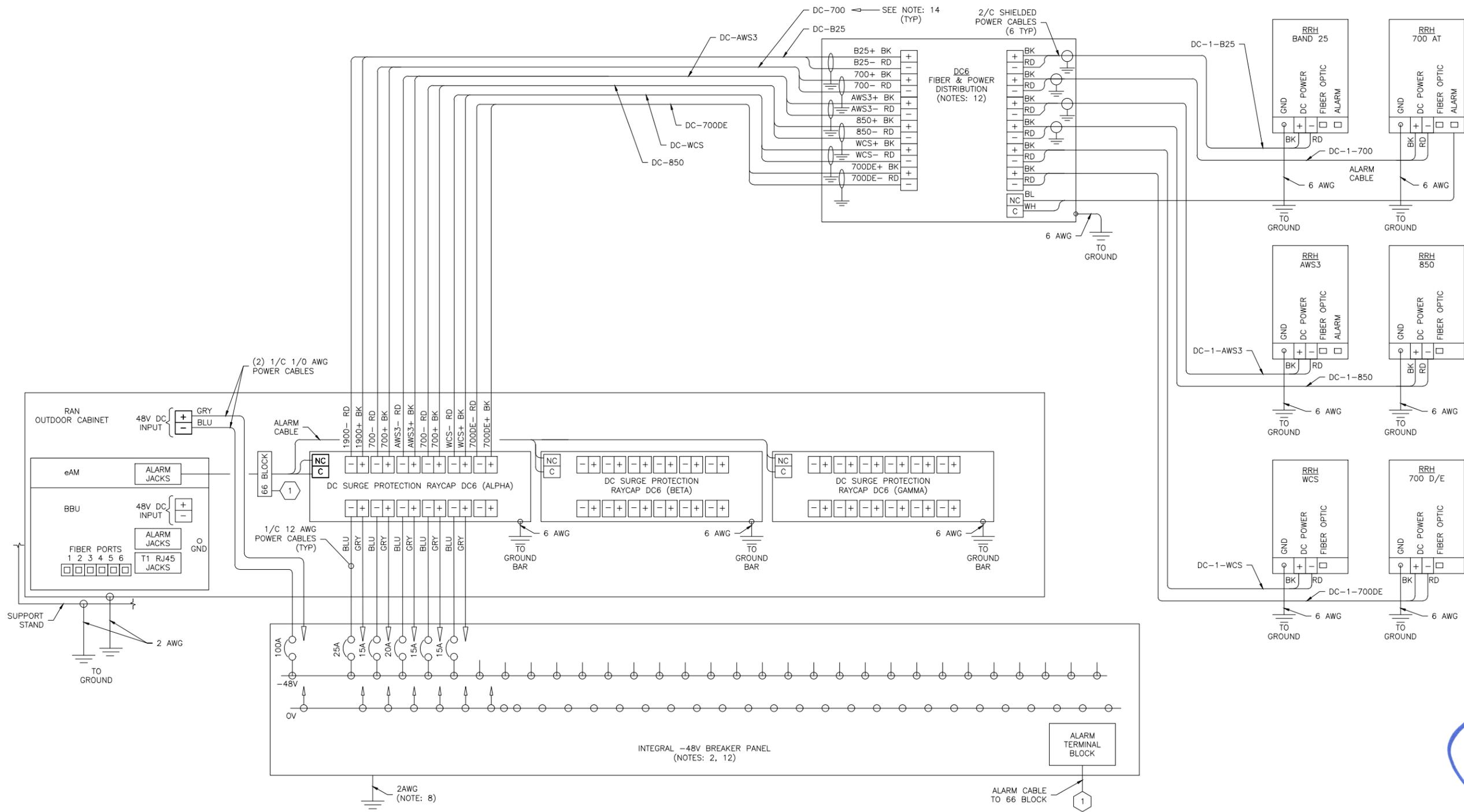


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Drawing Number: E4



NOTES

- 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+.
- INSTALL ON IN AUXILIARY EQUIPMENT CABINET.
- CABLE TERMINALS FOR +24V INPUT FEED A, FEED B AND REFERENCE GROUND SHALL BE 2-HOLE: 3/8" ON 1" CENTER.
- INSTALL CABLE TERMINALS FOR FEED A AND FEED B RETURN BACK-TO-BACK ON OPPOSITE SIDES OF PAD USING 1-HOLE 3/8" TERMINALS.
- CABLE TERMINALS FOR CHASSIS GROUND SHALL BE 2-HOLE, 1/4" ON 5/8" CENTER.
- WHEN DISTRIBUTION BOX IS NOT USED, INSTALL 3 RUNS OF (2) 2/C CABLES IN CONDUIT, 1 EACH FROM DC SURGE SHELF TO DC6s.
- A JUNCTION BOX IS REQUIRED WHEN FIBER OPTIC CABLES ARE INSTALLED IN CONDUIT AS SCOPED BY MARKET.
- CONVERTER REFERENCE GROUND IS NOT REQUIRED WHEN CONVERTER AND 24V DC POWER PLANT ARE ON THE SAME RACK OR ENCLOSURE.
- 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.
- SEE ALARM BLOCK ASSIGNMENT DETAIL FOR ALARM CABLE CONNECTIONS.
- PROVIDE A JUNCTION BOX, AS SCOPED BY MARKET, TO COIL EXCESS DC POWER AND OPTICAL FIBER CABLES (FIBER CABLES NOT SHOWN FOR CLARITY)
- NOTED EQUIPMENT MAY BE COMMON TO LTE AND UMS SYSTEMS.
- CABLE GROUND WIRE AND SHIELD DRAIN WIRE TO BE LEFT UN-TERMINATED AT RRH.
- WHEN AN RRH IS USED INSTEAD OF AN AWS RRH CABLE, LABELS SHOULD REFLECT CORRECT FREQUENCY BAND.

TYPICAL PER SECTOR

1 TYPICAL DC WIRING DIAGRAM
NOT TO SCALE



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Drawing Title: TYPICAL DC WIRING DIAGRAM

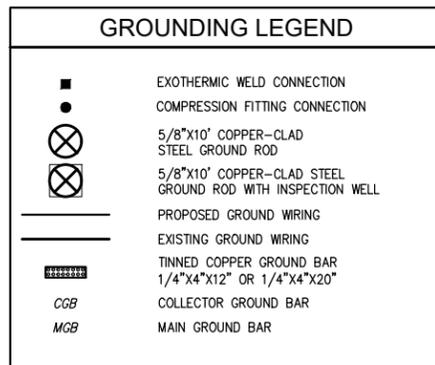
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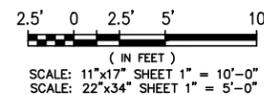
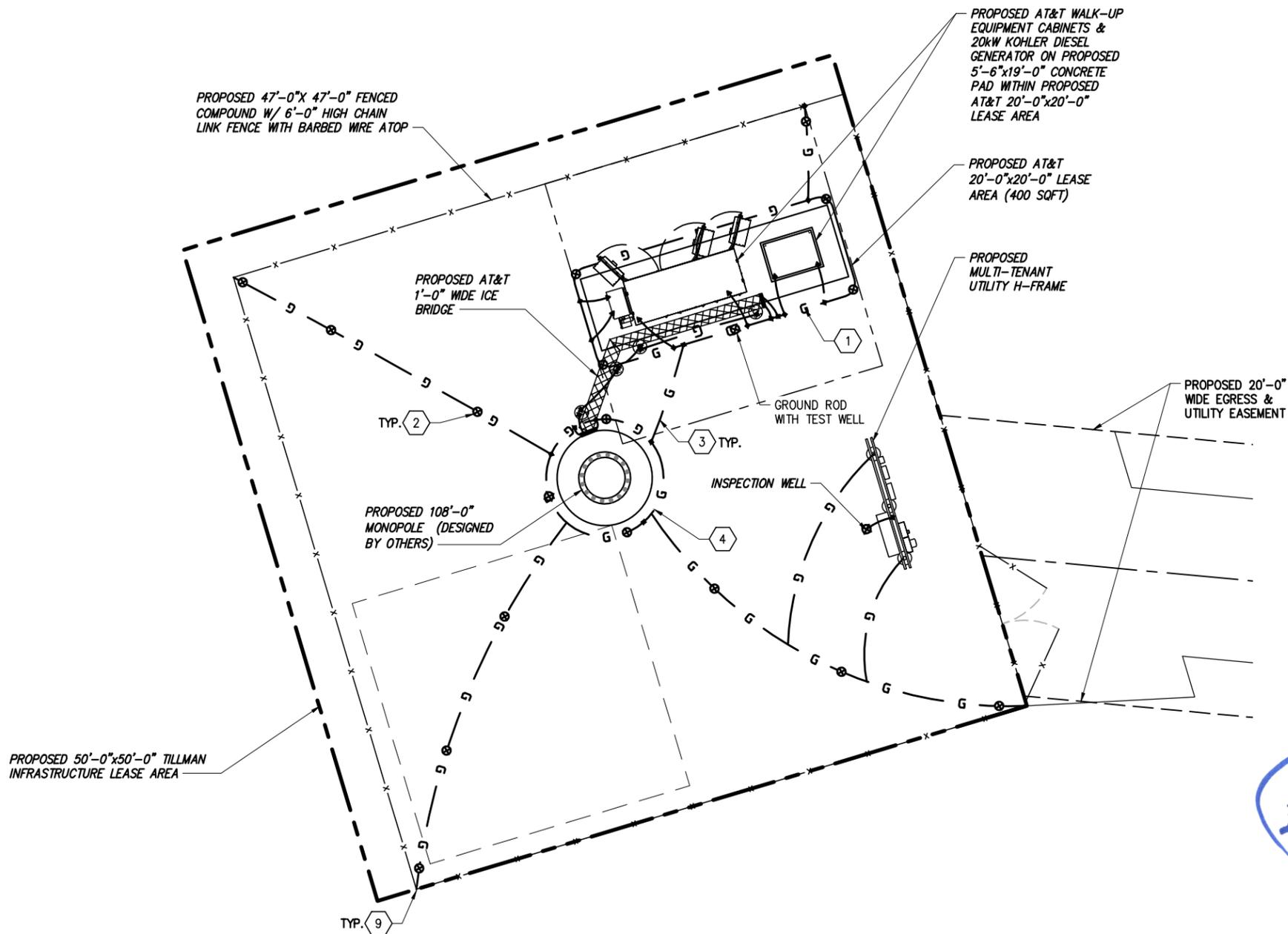
GROUNDING REFERENCE NOTES

- 1 APPROXIMATE LOCATION OF #2 AWG SOLID BARE TINNED GROUND RING. GROUND RING SHALL BE BURIED 6" BELOW THE FROST LINE OR 32" BELOW GRADE TO BE DETERMINE ON SITE AND BASE ON "FALL OF POTENTIAL GROUND RESISTANCE METHOD" FOR RESISTANCE <5 OHMS. UNLESS OTHERWISE NOTED, DRIVEN GROUND RODS ARE TO BE BURIED AT 15-20 FEET INTERVALS. SEE SHEET E-5 FOR ADDITIONAL GROUNDING INFORMATION.
- 2 PROVIDE 5/8" X 10'-0" LONG COPPER CLAD STEEL (COPPER WELD) GROUND ROD AS SHOWN. PROVIDE INSPECTION SLEEVE AT GROUND ROD TO SHOW BOND TO EXTERIOR BURIED GROUND RING (MINIMUM OF 4 INSPECTION SLEEVES). INSTALL GROUND ROD TWO (2) FEET MINIMUM AWAY FROM ANY SLAB. INSTALL SO THAT TOP OF GROUND ROD IS 32" BELOW GRADE OR 6" FROST LINE, WHICHEVER IS DEEPER. EXACT LOCATION AND NUMBER OF GROUND RODS TO BE ESTABLISHED ON SITE AND BASE ON "FALL OF POTENTIAL GROUND RESISTANCE METHOD" FOR RESISTANCE <5 OHMS, UNLESS OTHERWISE NOTED, DRIVEN GROUND RODS ARE BONDED TO THE BURIED GROUND RING AT 15-20' FEET INTERVALS.
- 3 NEW #2 AWG SOLID BARE TINNED COPPER CONDUCTOR FROM TOWER GROUNDING FLANGE AT BASE OF TOWER TO TOWER GROUND RING.
- 4 NEW #2 AWG SOLID BARE TINNED TOWER GROUND RING WITH GROUND RODS, TOWER GROUND RING SHALL BE SPACED A MINIMUM OF 2'-0" FROM TOWER FOUNDATION.



NOTE:
UTILITY ROUTING/TERRMINATION
POINTS ARE DIAGRAMMATIC &
MAY VARY FROM THAT SHOWN.

- NOTES:**
- CONTRACTOR SHALL INSPECT AND TEST ANY NEW AT&T GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
 - CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED.



NOTE: PIGTAIL ALL
GROUNDING FOR FUTURE
EQUIPMENT AS REQUIRED.



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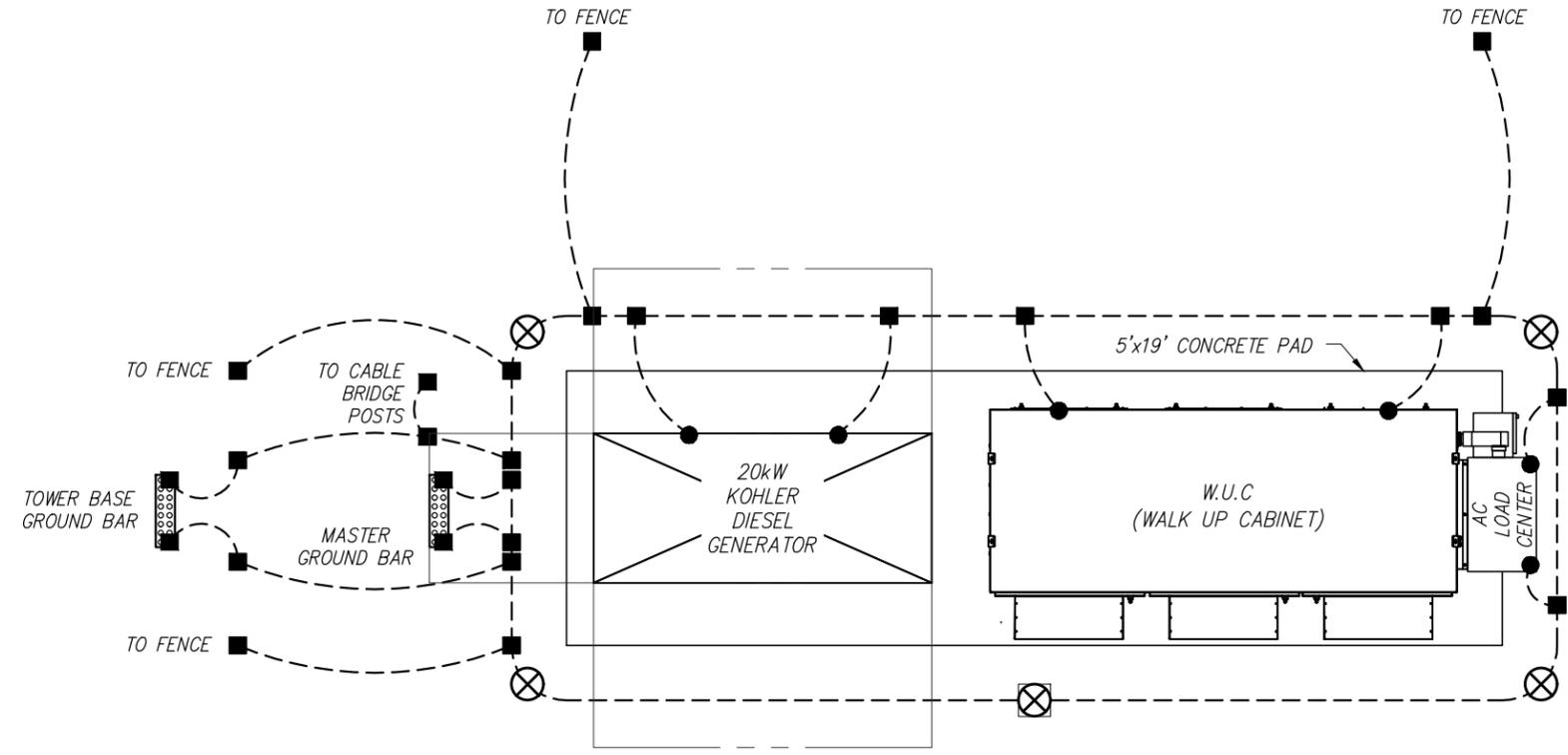
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Drawing Number
G1

GROUNDING LEGEND	
■	EXOTHERMIC WELD CONNECTION
●	COMPRESSION FITTING 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
CGB	COLLECTOR GROUND BAR
MGB	MAIN GROUND BAR



1 TYPICAL AT&T EQUIPMENT GROUNDING PLAN
 -- NOT TO SCALE

at&t
 MOBILITY CORP.
 8372 E. BROAD ST.
 REYNOLDSBURG, OH 43068

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Drawing Title
 EQUIPMENT GROUNDING PLAN

Drawing Scale:
 AS NOTED

Date:
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Drawing Number
G2

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 ANTIOXIDANT 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 16' 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 WIRES SHALL BE IN LIQUID TIGHT CONDUIT AND SHOULD BE 6-8" ABOVE GRADE/GRAVEL AND RUN TO AT LEAST 6-8" BELOW SURFACE WITH A TOTAL LENGTH OF 14-18" 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 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.

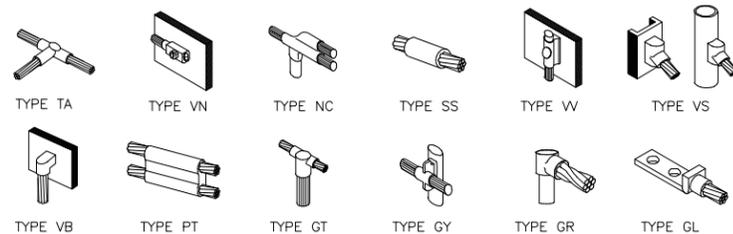
CABLE COLOR CODING NOTES:

- 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.

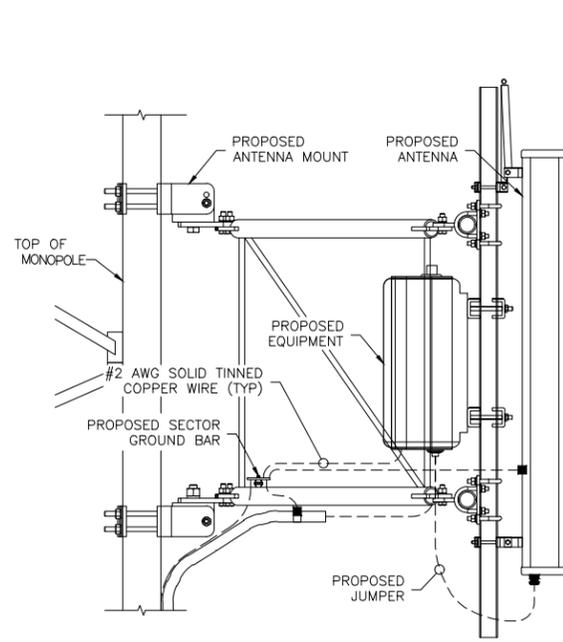
CABLE MARKING TAGS:

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 UMS LINE TAG" DETAIL.

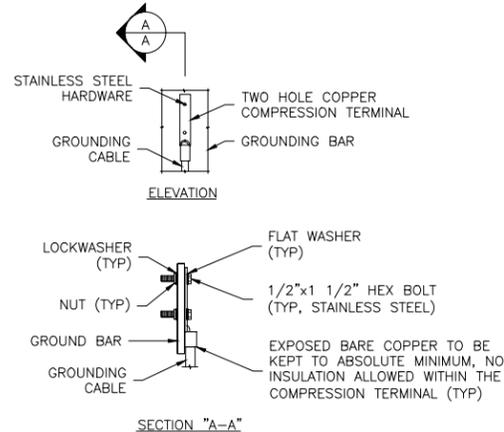
NO.	LOCATIONS
1	EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR SHELTER.
3	CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.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



1 CADWELD GROUNDING CONNECTION DETAILS
NOT TO SCALE

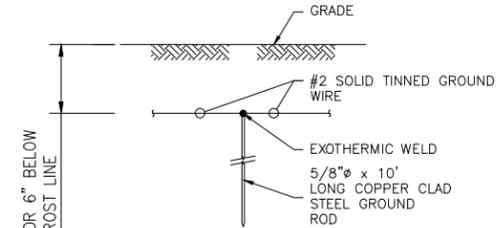


2 ANTENNA & CABLE GROUNDING
NOT TO SCALE

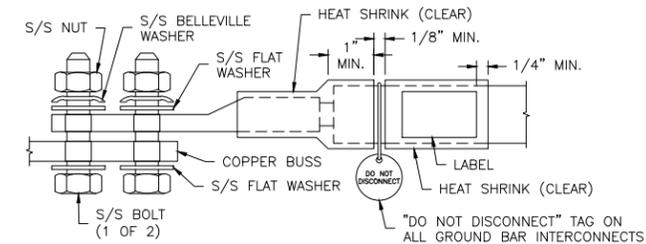


NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

5 TYPICAL GROUND BAR CONNECTION DETAIL
NOT TO SCALE

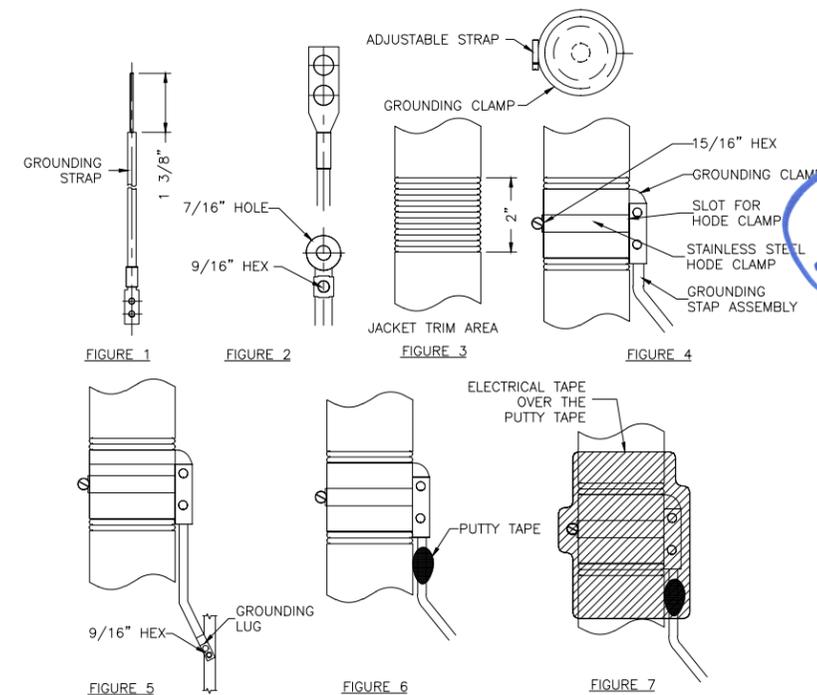


3 GROUNDING ROD DETAIL
NOT TO SCALE



- NOTES:**
- ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND.
 - COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.

4 GENERAL LUG DETAIL
NOT TO SCALE



6 GROUNDING STRAP WEATHERPROOFING DETAIL
NOT TO SCALE



8372 E. BROAD ST.
REYNOLDSBURG, OH 43068

TILLMAN
INFRASTRUCTURE

152 W. 57TH STREET
NEW YORK, NEW YORK 10019
TEL: 212-706-1677

INFINIGY
FROM ZERO TO INFINIGY
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INFINIGY ENGINEERING, PLLC
500 W OFFICE CENTER DR, SUITE 150
FORT WASHINGTON, PA 19034
Office # (678) 444-4463

11	ISSUED FOR CONSTRUCTION	JLD	11/14/24
10	ISSUED FOR CONSTRUCTION	JLD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
7	ISSUED FOR CONSTRUCTION	CS	07/15/24
6	ISSUED FOR CONSTRUCTION	RCD	05/29/24
5	ISSUED FOR CONSTRUCTION	CES	10/14/21
4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21

Drawn: RCD Date: 06/30/21
Designed: CES Date: 06/30/21
Checked: CWH Date: 06/30/21

Project Number
2136-Z0001-C

Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119



Drawing Title
GROUNDING DETAILS & NOTES

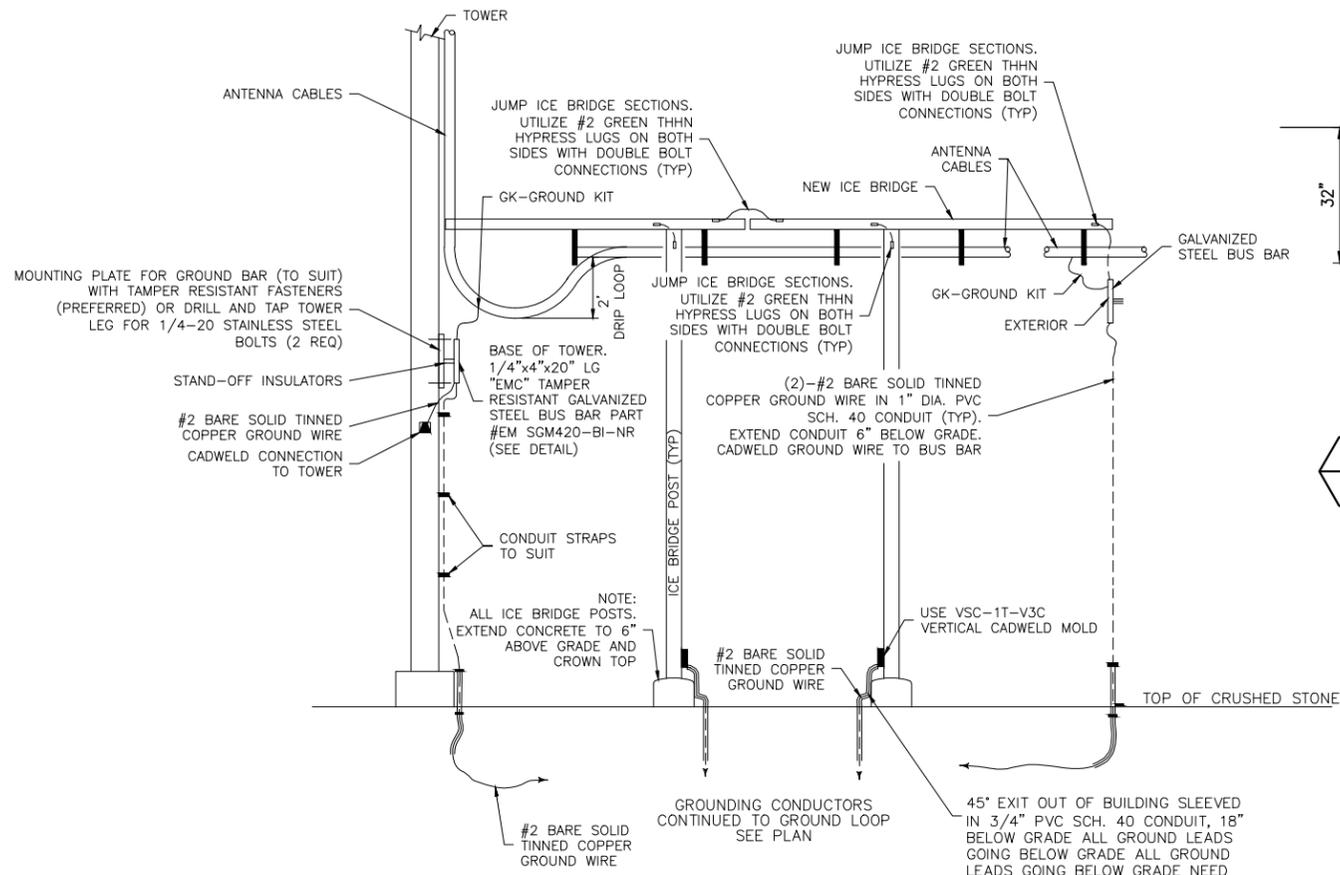
Drawing Scale:
AS NOTED

Date:
06/30/21

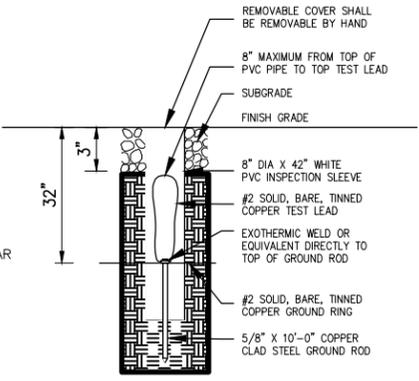
CD

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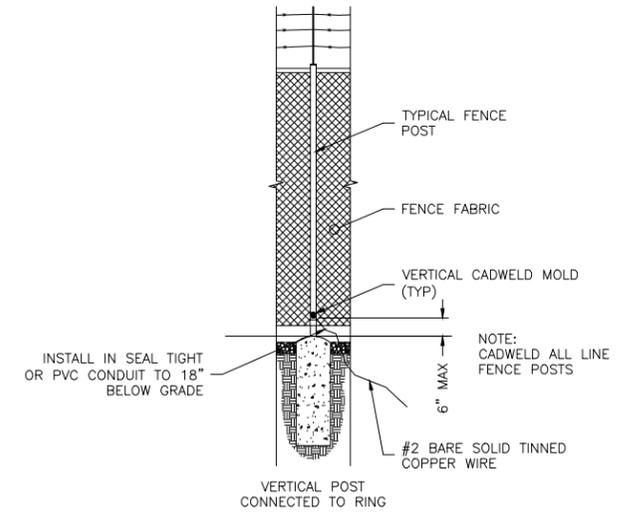
Drawing Number
G3



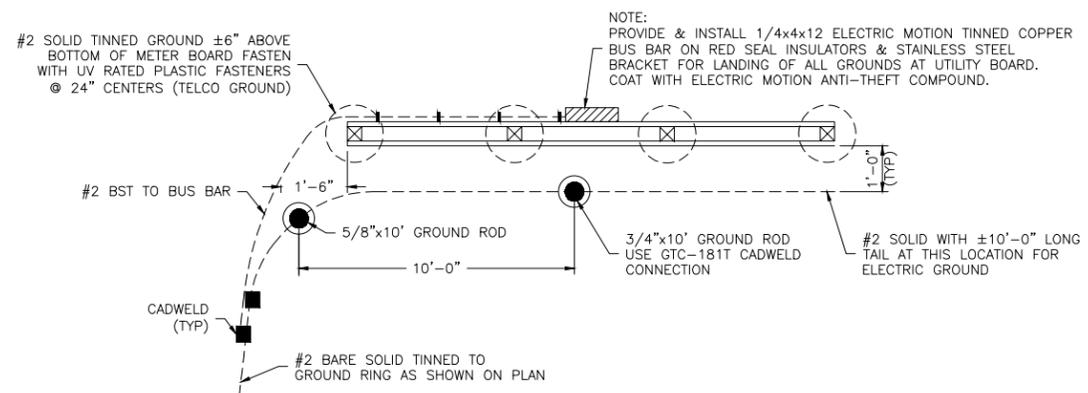
1 COAXIAL GROUNDING AT ICE BRIDGE
-- NOT TO SCALE



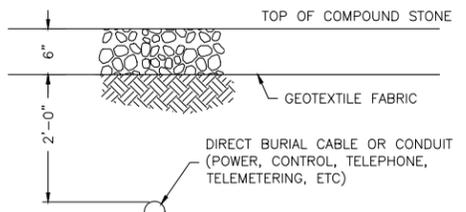
2 INSPECTION WELL DETAIL
-- NOT TO SCALE



3 TYPICAL FENCE POST GROUNDING
-- NOT TO SCALE



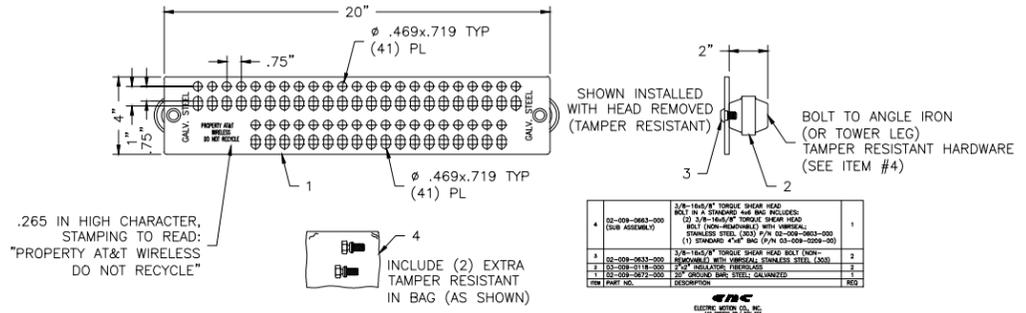
4 METER BOARD UTILITY GROUNDING DETAIL
-- NOT TO SCALE



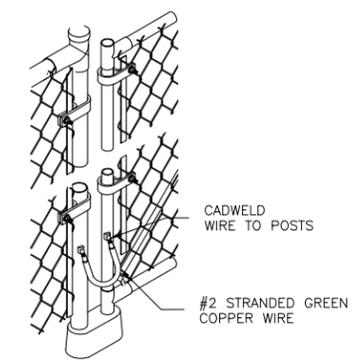
5 STANDARD MARKER TAPE DETAIL
-- NOT TO SCALE

INSTALLATION
 1. THE TAPE SHALL BE LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER RIGID TYPE AND OIL MAT PAVEMENTS, AND DIRECTLY ON TOP OF THE COMPACTED EARTH SUBGRADE IMMEDIATELY BEFORE RESTORING THE PAVEMENT.
 2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT A DISTANCE OF 8" BELOW THE SURFACE OF THE AREA.
 3. THE ENDS OF THE TAPE SHALL BE LAPPED APPROXIMATELY SIX (6) INCHES.
 4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:

RED	CAUTION	CAUTION	CAUTION
	BURIED ELECTRIC LINE BELOW		
ORANGE	CAUTION	CAUTION	CAUTION
	BURIED TELEPHONE LINE BELOW		



6 TOWER BUS BAR DETAIL
-- NOT TO SCALE



7 GATE GROUNDING DETAIL
-- NOT TO SCALE

11	ISSUED FOR CONSTRUCTION	JLD	11/14/24
10	ISSUED FOR CONSTRUCTION	JLD	10/23/24
9	ISSUED FOR CONSTRUCTION	RCD	09/13/24
8	ISSUED FOR CONSTRUCTION	PT	08/15/24
7	ISSUED FOR CONSTRUCTION	CS	07/15/24
6	ISSUED FOR CONSTRUCTION	RCD	05/29/24
5	ISSUED FOR CONSTRUCTION	CES	10/14/21
4	ISSUED FOR CONSTRUCTION	LMG	10/01/21
3	ISSUED FOR CONSTRUCTION	LMG	09/10/21
2	ISSUED FOR CONSTRUCTION	CES	08/25/21

Drawn: RCD Date: 06/30/21
 Designed: CES Date: 06/30/21
 Checked: C&W Date: 06/30/21

Project Number
2136-Z0001-C

Project Title
15346957
TI-OPP-17878
FALLING BRANCH
2589 BLUE BIRD ROAD
FALLS CREEK, KY 40119



Drawing Title
GROUNDING DETAILS

Drawing Scale:
AS NOTED
CD
Date:
06/30/21

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Drawing Number
G4

EXHIBIT C

**CONSTRUCTION MANAGER LETTER
LIST OF QUALIFIED PROFESSIONALS
FALL ZONE LETTER
TOWER AND FOUNDATION DESIGN**

October 7, 2024

Kentucky Public Service Commission
211 Sower Blvd,
Frankfort, KY 40602-0615

RE: Site Name – Falling Branch
Proposed Cell Tower
37 35' 46.17" (37.596158°) -86° 29' 26.44" (-86.490678°)

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 Moorehead

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

FALLING BRANCH – List of Qualified Professionals

Emmanuel Poulin, P.E.
Licensed Professional Engineer
License #21727
Infinigy Engineering, PLLC
500 W. Office Center Drive, Suite 150
Fort Washington, PA 19034

G. Darrell Taylor
Licensed Professional Land Surveyor
License #4179
Point to Point Land Surveyors
100 Governors Trace, Ste. 103
Peachtree City, GA 30269

John Lounsbury
Tillman Infrastructure
152 W 57th Street
New York, NY 10019

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

Joseph V. Borrelli
Kentucky Licensed Professional Engineer
License #30809
Delta Oaks Group
4904 Professional Court, Second Floor
Raleigh, NC 27609

Sara C. Russek, P.E.
Delta Oaks Group
4904 Professional Court, Second Floor
Raleigh, NC 27609

September 25, 2024

Ms. Chelsea Iglesias
Project Controls Coordinator Sr.
Tillman Infrastructure, LLC.
299 Market St, Suite 350
Saddle Brook, NJ 07663

RE: Proposed 108' Sabre Monopole for TI-OPP-17878 Falling Branch, KY

Dear Ms. Iglesias,

Upon receipt of order, we propose to design a monopole for the above referenced project for a Basic Wind Speed of 106 mph and 30 mph with 1.5" radial ice, Structure Class II, Exposure Category C, Topographic Category 1 in accordance with the Telecommunications Industry Association Standard ANSI/TIA-222-G, "Structural Standard for Antenna Supporting Structures and Antennas".

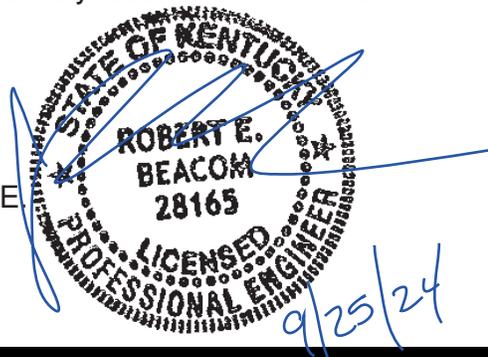
When designed according to this standard, the wind pressures and steel strength capacities include several safety factors. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within the monopole shaft, above the base plate. Assuming that the wind pressure profile is similar to that used to design the monopole, the monopole will buckle at the location of the highest combined stress ratio within the monopole shaft. This is likely to result in the portion of the monopole above leaning over and remaining in a permanently deformed condition. **Please note that this letter only applies to the above referenced monopole designed and manufactured by Sabre Industries.** This would effectively result in a fall radius within the 50' x 50' leased area

Sincerely,

Robert E. Beacom, P.E., S.E.
Engineering Manager





Structural Design Report

108' Monopole

Site: TI-OPP-17878, KY

Site Number: 15878887

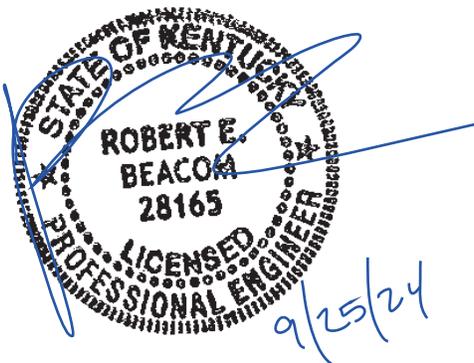
Prepared for: TILLMAN INFRASTRUCTURE, LLC

by: Sabre Industries™

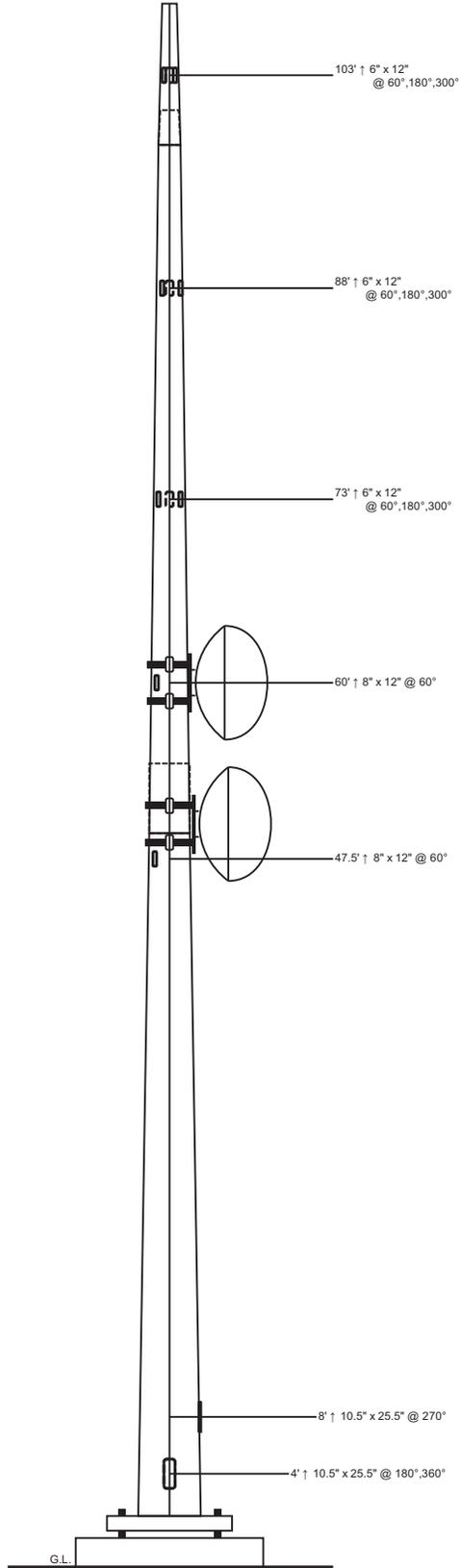
Job Number: 25-0065-RRM-R1

September 24, 2024

Monopole Profile.....	1
Foundation Design Summary (Option 1).....	2
Foundation Design Summary (Option 2).....	3
Pole Calculations.....	4-18
Foundation Calculations.....	19-28



Length (ft)	53'-3"	53'-3"	10'-0"
Number Of Sides	18	51'-3"	
Thickness (in)	5/16"	1/4"	
Lap Splice (ft)	33.21'	16.32"	14"
Top Diameter (in)	53.23"	35.59"	17.76"
Bottom Diameter (in)	0.376		
Taper (in/ft)	A572-65		
Grade	9641		
Weight (lbs)	9641	3985	667
Overall Steel Height (ft)	107		



Designed Appurtenance Loading

Elev	Description	Tx-Line
105	(1) 278 sq. ft. EPA 6000# (no Ice)	(9) 1 5/8"
90	(1) 278 sq. ft. EPA 6000# (no Ice)	(9) 1 5/8"
75	(1) 208 sq. ft. EPA 4000# (no ice)	(9) 1 5/8"
60	(1) Dish Mount (Monopole Only) - Pipe Mount (8'-10' Dish)	
60	(1) 8' Solid Dish W/ Radome	(1) EW63
50	(1) Dish Mount (Monopole Only) - Pipe Mount (8'-10' Dish)	
50	(1) 8' Solid Dish W/ Radome	(1) EW63

Design Criteria - ANSI/TIA-222-G

ASCE 7-16 Ultimate Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Structure Class	II
Risk Category	II
Exposure Category	C
Topographic Category	1
Seismic Importance Factor, I _e	1.00
0.2-sec Spectral Response, S _s	0.263 g
1-sec Spectral Response, S ₁	0.126 g
Site Class	D (DEFAULT)
Seismic Design Category	C
Basic Seismic Force-Resisting System	Telecommunication Tower (Pole: Steel)

Limit State Load Combination Reactions

Load Combination	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
1.2 D + 1.0 W _o	37.12	35.91	3008.48	6.34	6.8
0.9 D + 1.0 W _o	27.85	35.93	2980.01	6.24	6.69
1.2 D + 1.0 D _i + 1.0 W _i	72.64	5.04	448.02	0.99	1.07
1.2 D + 1.0 E _v + 1.0 E _h	39.8	1.84	170.48	0.39	0.43
0.9 D - 1.0 E _v + 1.0 E _h	26.75	1.84	167.74	0.38	0.42
1.0 D + 1.0 W _o (Service @ 60 mph)	30.93	10.77	897.44	1.91	2.03

Base Plate Dimensions

Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	65.5"	2"	59.75"	12	2.25"

Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish
84"	2.25"	2.625"	1453.2	A615-75	Galv

Material List

Display	Value
A	2' - 6"

Notes

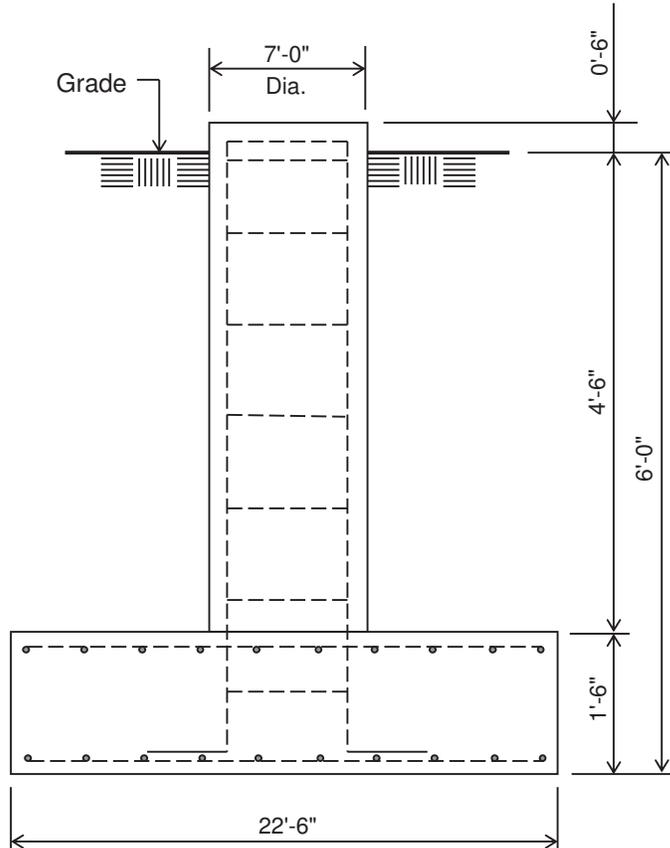
- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) Full Height Step Bolts
- 5) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2015 International Building Code.
- 6) Tower Rating: 95%

 <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><small>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.</small></p>	Job:	25-0065-RRM-R1
	Customer:	TILLMAN INFRASTRUCTURE, LLC
	Site Name:	TI-OPP-17878, KY 15878887
	Description:	108' Monopole
	Date:	9/24/2024	By: TTW

Customer: TILLMAN INFRASTRUCTURE, LLC

Site: TI-OPP-17878, KY 15878887

108' Monopole



ELEVATION VIEW

(35.25 Cu. Yds.)

(1 REQUIRED; NOT TO SCALE)

Notes:

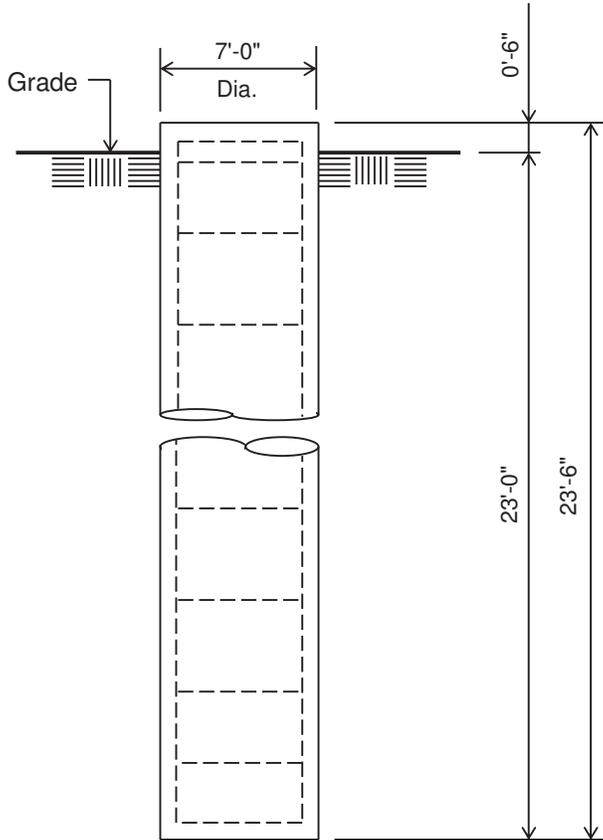
- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Delta Oaks Group, Project No. GEO24-21158-08 Revision 1, dated April 23, 2024.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 4.5 ft of soil cover is required over the entire area of the foundation slab.
- 8) The foundation is based on the following factored loads:
 Moment = 3,008.48 k-ft
 Axial = 37.12 k
 Shear = 35.91 k

Rebar Schedule for Pad and Pier	
Pier	(36) #8 vertical rebar w/ hooks at bottom w/ #5 ties, (2) within top 5" of pier, then 12" C/C
Pad	(41) #8 horizontal rebar evenly spaced each way top and bottom (164 total)

Customer: TILLMAN INFRASTRUCTURE, LLC

Site: TI-OPP-17878, KY 15878887

108' Monopole



Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 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 Delta Oaks Group, Project No. GEO24-21158-08 Revision 1, dated April 23, 2024.
- 6) See the geotechnical report for drilled pier installation requirements, if specified.
- 7) The foundation is based on the following factored loads:
 Moment = 3,008.48 k-ft
 Axial = 37.12 k
 Shear = 35.91 k

ELEVATION VIEW

(33.5 Cu. Yds.)

(1 REQUIRED; NOT TO SCALE)

Rebar Schedule for Pier	
Pier	(36) #8 vertical rebar w/ #5 ties, (2) within top 5" of pier, then 8" C/C

Processed under license at:
 Sabre Towers and Poles on: 24 sep 2024 at: 10:29:48
 =====

108' Monopole / TI-OPP-17878, KY

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

POLE GEOMETRY
 =====

ELEV	SECTION	No.	OUTSIDE	THICK	RESISTANCES		SPLICE	..OVERLAP...		w/t
ft	NAME	SIDE	DIAM	-NESS	*Pn	*Mn	TYPE	LENGTH	RATIO	
			in	in	kip	ft-kip		ft		
107.0										
	A	18	14.22	0.250	810.6	227.0				8.1
			17.07	0.250	976.4	330.3				
99.5										
	A/B	18	17.07	0.250	976.4	330.3	SLIP	2.50	1.74	
			17.53	0.250	1003.2	348.9				
97.0										
	B	18	17.53	0.250	1003.2	348.9				10.4
			34.22	0.250	1804.0	1241.8				
53.2										
	B/C	18	34.22	0.250	1804.0	1241.8	SLIP	5.00	1.71	
			35.64	0.312	2489.8	1779.5				
48.2										
	C	18	35.64	0.312	2489.8	1779.5				18.0
			54.05	0.312	3219.2	3510.9				
0.0										

POLE ASSEMBLY
 =====

SECTION	BASE	.....BOLTS AT BASE OF SECTION.....			.....		CALC
NAME	ELEV	NUMBER	TYPE	DIAM	STRENGTH	THREADS IN	BASE
	ft			in	ksi	SHEAR PLANE	ELEV
							ft
A	97.000	0	A325	0.00	92.0	0	97.000
B	48.250	0	A325	0.00	92.0	0	48.250
C	0.000	0	A325	0.00	92.0	0	0.000

POLE SECTIONS
 =====

SECTION	No. of	LENGTH	OUTSIDE DIAMETER		BEND	MAT-	FLANGE ID		FLANGE WELD	
NAME	SIDES		BOT	TOP	RAD	ERIAL	BOT	TOP	..GROUP ID..	
		ft	*	*	in	ID			BOT	TOP
			in	in						
A	18	10.00	18.03	14.22	0.000	1	0	0	0	0
B	18	51.25	36.14	16.57	0.000	2	0	0	0	0
C	18	53.25	54.05	33.72	0.000	3	0	0	0	0

* - Diameter of circumscribed circle

MATERIAL TYPES
 =====

TYPE OF	TYPE	NO OF	ORIENT	HEIGHT	WIDTH	.THICKNESS.		IRREGULARITY	
SHAPE	NO	ELEM.				WEB	FLANGE	.PROJECTION.	% OF ORIENT
								% OF	AREA

		& deg	in	in	in	in	in	deg	
PL	1	1	0.0	18.03	0.25	0.250	0.250	0.00	0.0
PL	2	1	0.0	36.14	0.25	0.250	0.250	0.00	0.0
PL	3	1	0.0	54.05	0.31	0.312	0.312	0.00	0.0

& - With respect to vertical

MATERIAL PROPERTIES

=====

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

* Only 5 condition(s) shown in full

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

=====

LOADING CONDITION A

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

LOADS ON POLE

=====

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	104.000	0.00	0.0	0.0	0.0000	1.1681	0.0000	0.0000
C	104.000	0.00	0.0	0.0	10.2309	7.2000	0.0000	0.0000
C	89.000	0.00	0.0	0.0	0.0000	0.9996	0.0000	0.0000
C	89.000	0.00	0.0	0.0	9.9042	7.2000	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.0000	0.8312	0.0000	0.0000
C	74.000	0.00	0.0	0.0	7.1313	4.8000	0.0000	0.0000
C	59.000	0.00	0.0	0.0	0.0000	0.0361	0.0000	0.0000
C	49.000	0.00	0.0	0.0	0.0000	0.0300	0.0000	0.0000
D	107.000	0.00	180.0	0.0	0.0296	0.0466	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0319	0.0504	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0342	0.0922	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0342	0.0922	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0369	0.0592	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0586	0.1044	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0604	0.2485	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0604	0.2485	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0623	0.1457	0.0000	0.0000
D	18.094	0.00	180.0	0.0	0.0667	0.1821	0.0000	0.0000
D	18.094	0.00	180.0	0.0	0.0647	0.1913	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0700	0.2095	0.0000	0.0000

ANTENNA LOADING

=====

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT		.....ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	49.0	0.0	2.2	0.0	1.37	0.00	0.40	0.00
STD+R	59.0	0.0	2.0	0.0	1.42	0.00	0.40	0.00

=====

LOADING CONDITION M

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

LOADS ON POLE

=====

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD .AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	104.000	0.00	0.0	0.0	0.0000	0.8761	0.0000	0.0000
C	104.000	0.00	0.0	0.0	10.2309	5.4000	0.0000	0.0000
C	89.000	0.00	0.0	0.0	0.0000	0.7497	0.0000	0.0000
C	89.000	0.00	0.0	0.0	9.9042	5.4000	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.0000	0.6234	0.0000	0.0000
C	74.000	0.00	0.0	0.0	7.1313	3.6000	0.0000	0.0000
C	59.000	0.00	0.0	0.0	0.0000	0.0271	0.0000	0.0000
C	49.000	0.00	0.0	0.0	0.0000	0.0225	0.0000	0.0000
D	107.000	0.00	180.0	0.0	0.0296	0.0349	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0319	0.0378	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0342	0.0692	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0342	0.0692	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0369	0.0444	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0586	0.0783	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0604	0.1864	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0604	0.1864	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0623	0.1092	0.0000	0.0000
D	18.094	0.00	180.0	0.0	0.0667	0.1366	0.0000	0.0000
D	18.094	0.00	180.0	0.0	0.0647	0.1434	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0700	0.1571	0.0000	0.0000

ANTENNA LOADING
=====

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT		.....ANTENNA FORCES.....			
			RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	49.0	0.0	2.2	0.0	1.37	0.00	0.30	0.00
STD+R	59.0	0.0	2.0	0.0	1.42	0.00	0.30	0.00

LOADING CONDITION Y
=====

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

LOADS ON POLE
=====

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD .AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	104.000	0.00	0.0	0.0	0.0000	1.1681	0.0000	0.0000
C	104.000	0.00	0.0	0.0	1.4324	17.3044	0.0000	0.0000
C	89.000	0.00	0.0	0.0	0.0000	0.9996	0.0000	0.0000
C	89.000	0.00	0.0	0.0	1.3781	17.1498	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.0000	0.8312	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.9851	11.3134	0.0000	0.0000
C	59.000	0.00	0.0	0.0	0.0000	0.0361	0.0000	0.0000
C	49.000	0.00	0.0	0.0	0.0000	0.0300	0.0000	0.0000
D	107.000	0.00	180.0	0.0	0.0056	0.0806	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0060	0.0869	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0063	0.1312	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0063	0.1312	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0066	0.1007	0.0000	0.0000
D	90.750	0.00	180.0	0.0	0.0066	0.1007	0.0000	0.0000
D	90.750	0.00	180.0	0.0	0.0073	0.1127	0.0000	0.0000
D	84.500	0.00	180.0	0.0	0.0073	0.1127	0.0000	0.0000
D	84.500	0.00	180.0	0.0	0.0078	0.1247	0.0000	0.0000
D	78.250	0.00	180.0	0.0	0.0078	0.1247	0.0000	0.0000
D	78.250	0.00	180.0	0.0	0.0084	0.1366	0.0000	0.0000
D	72.000	0.00	180.0	0.0	0.0084	0.1366	0.0000	0.0000
D	72.000	0.00	180.0	0.0	0.0089	0.1484	0.0000	0.0000
D	65.750	0.00	180.0	0.0	0.0089	0.1484	0.0000	0.0000
D	65.750	0.00	180.0	0.0	0.0094	0.1600	0.0000	0.0000
D	59.500	0.00	180.0	0.0	0.0094	0.1600	0.0000	0.0000
D	59.500	0.00	180.0	0.0	0.0098	0.1715	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0098	0.1715	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0102	0.3190	0.0000	0.0000

D	48.250	0.00	180.0	0.0	0.0102	0.3190	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0103	0.2183	0.0000	0.0000
D	42.219	0.00	180.0	0.0	0.0103	0.2183	0.0000	0.0000
D	42.219	0.00	180.0	0.0	0.0106	0.2307	0.0000	0.0000
D	36.187	0.00	180.0	0.0	0.0106	0.2307	0.0000	0.0000
D	36.187	0.00	180.0	0.0	0.0106	0.2452	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0112	0.2927	0.0000	0.0000

ANTENNA LOADING

=====

..... ANTENNA	ATTACHMENT				..... ANTENNA FORCES			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	49.0	0.0	2.2	0.0	0.12	0.00	1.39	0.00
STD+R	59.0	0.0	2.0	0.0	0.13	0.00	1.41	0.00

=====

LOADING CONDITION AK

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

LOADS ON POLE

=====

LOAD	ELEV	APPLY..LOAD..AT	LOAD	..... FORCES .....		..... MOMENTS	
TYPE	ft	RADIUS	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
		ft		kip	kip	ft-kip	ft-kip
C	104.000	0.00	0.0	0.1003	1.2224	0.0000	0.0000
C	104.000	0.00	0.0	0.6185	7.5348	0.0000	0.0000
C	102.000	0.00	0.0	0.0418	0.5286	0.0000	0.0000
C	89.000	0.00	0.0	0.0640	1.0461	0.0000	0.0000
C	89.000	0.00	0.0	0.4608	7.5348	0.0000	0.0000
C	74.000	0.00	0.0	0.0375	0.8697	0.0000	0.0000
C	74.000	0.00	0.0	0.2168	5.0232	0.0000	0.0000
C	73.880	0.00	0.0	0.1917	4.4550	0.0000	0.0000
C	59.000	0.00	0.0	0.0260	0.9255	0.0000	0.0000
C	59.000	0.00	0.0	0.0011	0.0378	0.0000	0.0000
C	49.000	0.00	0.0	0.0183	0.9255	0.0000	0.0000
C	49.000	0.00	0.0	0.0006	0.0314	0.0000	0.0000
C	26.620	0.00	0.0	0.0604	9.6613	0.0000	0.0000
D	107.000	0.00	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	0.0000	0.0000	0.0000	0.0000

ANTENNA LOADING

=====

..... ANTENNA	ATTACHMENT				..... ANTENNA FORCES			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	49.0	0.0	2.2	0.0	0.00	0.00	0.00	0.00
STD+R	59.0	0.0	2.0	0.0	0.00	0.00	0.00	0.00

=====

LOADING CONDITION AL

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

LOADS ON POLE

=====

LOAD	ELEV	APPLY..LOAD..AT	LOAD	..... FORCES .....		..... MOMENTS	
TYPE	ft	RADIUS	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
		ft		kip	kip	ft-kip	ft-kip
C	104.000	0.00	0.0	0.1003	0.8218	0.0000	0.0000
C	104.000	0.00	0.0	0.6185	5.0652	0.0000	0.0000
C	102.000	0.00	0.0	0.0418	0.3553	0.0000	0.0000
C	89.000	0.00	0.0	0.0640	0.7032	0.0000	0.0000
C	89.000	0.00	0.0	0.4608	5.0652	0.0000	0.0000
C	74.000	0.00	0.0	0.0375	0.5847	0.0000	0.0000

C	74.000	0.00	0.0	0.0	0.2168	3.3768	0.0000	0.0000
C	73.880	0.00	0.0	0.0	0.1917	2.9947	0.0000	0.0000
C	59.000	0.00	0.0	0.0	0.0260	0.6222	0.0000	0.0000
C	59.000	0.00	0.0	0.0	0.0011	0.0254	0.0000	0.0000
C	49.000	0.00	0.0	0.0	0.0183	0.6222	0.0000	0.0000
C	49.000	0.00	0.0	0.0	0.0006	0.0211	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0604	6.4947	0.0000	0.0000
D	107.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000

ANTENNA LOADING

=====

..... ANTENNA	ATTACHMENT				..... ANTENNA FORCES			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	49.0	0.0	2.2	0.0	0.00	0.00	0.00	0.00
STD+R	59.0	0.0	2.0	0.0	0.00	0.00	0.00	0.00

=====

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108' Monopole / TI-OPP-17878, KY

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

MAST ELEV ft	..... DEFLECTIONS (ft) .....			..... ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
107.0	6.34A	-0.03W	0.54A	6.80G	-0.03W	0.02E
103.8	5.96A	-0.03W	0.49A	6.80G	-0.03W	0.02E
100.6	5.59A	-0.03W	0.45A	6.75G	-0.03W	0.02E
97.0	5.17A	-0.03W	0.40A	6.63G	-0.03W	0.02E
90.7	4.48A	-0.02W	0.32A	6.30G	-0.03W	0.02E
84.5	3.82A	-0.02W	0.25A	5.88A	-0.02W	0.02E
78.2	3.21A	-0.02W	0.19A	5.38A	-0.02W	0.02E
72.0	2.66A	-0.02W	0.14A	4.84A	-0.02W	0.02E
65.7	2.16A	-0.01W	0.10A	4.28A	-0.02W	0.02E
59.5	1.73A	-0.01W	0.07A	3.71A	-0.02W	-0.02J
53.2	1.36A	-0.01W	0.05A	3.16A	-0.02W	-0.01J
48.2	1.10A	-0.01W	0.04A	2.81A	-0.02W	-0.01J
42.2	0.82A	-0.01W	0.02A	2.39A	-0.02W	-0.01J
36.2	0.59A	0.00W	0.01A	1.99A	-0.01W	-0.01J
30.2	0.40A	0.00W	0.01A	1.61A	-0.01W	-0.01J
24.1	0.25A	0.00W	0.00A	1.25A	-0.01W	0.00J
18.1	0.14A	0.00W	0.00A	0.91A	-0.01W	0.00J
12.1	0.06A	0.00W	0.00A	0.59A	0.00W	0.00J

6.0	0.01A	0.00W	0.00AE	0.29A	0.00W	0.00J
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS

ELEV ft	ANT AZI deg	ANT TYPE	..... BEAM DEFLECTIONS (deg)			
			ROLL	YAW	PITCH	TOTAL
59.0	0.0	STD+R	-3.622 J	0.108 K	3.669 A	3.669 A
49.0	0.0	STD+R	-2.817 J	0.067 K	2.863 A	2.863 A

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

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION ft-kip
		ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
107.0	-0.01 J	-0.02 P	0.01 X	-0.03 C	0.02 X	0.00 X
103.8	18.74 Y	10.35 O	0.01 X	-2.57 G	-0.02 X	0.00 X
100.6	18.74 Z	10.35 C	-0.03 C	-2.58 L	0.04 F	0.00 F
97.0	19.01 Z	10.45 C	-0.03 C	-38.72 L	0.08 C	0.02 W
90.7	19.01 Z	10.49 G	-0.06 Q	-38.77 L	0.07 C	0.02 W
84.5	19.48 Z	10.61 G	-0.06 Q	-79.43 G	0.21 Q	-0.04 Q
78.2	19.48 Z	10.62 G	-0.06 W	-79.39 G	0.21 Q	-0.04 Q
72.0	20.11 Z	10.85 G	-0.06 W	-152.01 G	0.50 W	-0.08 Q
65.7	20.11 Z	10.85 G	-0.05 O	-152.02 G	0.49 W	-0.08 Q
59.5	38.96 Z	21.01 G	-0.05 O	-274.06 G	0.77 W	-0.12 Q
53.2	38.96 Z	21.02 G	-0.04 O	-274.06 G	0.77 W	-0.12 Q
48.2	39.74 Z	21.29 G	-0.04 O	-416.06 G	1.02 W	-0.17 O
42.2	39.74 Z	21.30 O	-0.05 Q	-416.06 G	1.02 W	-0.17 O
36.2	52.74 Z	28.73 O	-0.05 Q	-574.40 G	1.26 W	-0.22 O
	52.74 Z	28.73 O	-0.06 O	-574.43 G	1.27 W	-0.22 O
	53.67 Z	29.05 O	-0.06 O	-766.09 G	1.60 W	-0.29 O
	53.67 Z	29.07 O	-0.07 Q	-766.11 G	1.60 W	-0.29 O
	54.67 Z	29.40 O	-0.07 Q	-958.78 G	2.00 Q	-0.35 O
	54.67 Z	29.42 O	-0.11 O	-958.79 G	1.98 Q	-0.35 O
	57.19 Z	31.10 X	-0.26 W	-1160.11 G	-3.09 AH	3.30 E
	57.19 Z	31.12 M	-0.26 W	-1160.12 G	-3.09 AH	3.30 E
	60.20 Z	32.79 M	-0.43 W	-1323.56 G	-6.03 AH	6.51 E
	60.20 Z	32.78 X	0.43 D	-1323.54 G	-6.03 AH	6.51 E
	61.52 Z	33.15 X	0.43 D	-1526.67 G	6.44 W	-6.56 J
	61.52 Z	33.15 X	0.43 D	-1526.66 G	6.45 W	-6.56 J
	62.91 Z	33.54 X	0.43 D	-1734.19 A	9.05 W	-6.62 J

	62.91 Z	33.54 M	0.43 P	-1734.19 A	9.05 W	-6.62 J
	64.41 Z	33.93 M	0.43 P	-1943.14 A	11.59 W	-6.66 J
30.2	64.41 Z	33.93 X	0.43 P	-1943.13 A	11.60 W	-6.66 J
	65.96 Z	34.32 X	0.43 P	-2153.42 A	14.19 W	-6.69 J
24.1	65.96 Z	34.33 X	-0.43 W	-2153.43 A	14.20 W	-6.69 J
	67.56 Z	34.73 X	-0.43 W	-2365.07 A	16.80 W	-6.71 J
18.1	67.56 Z	34.72 X	0.43 D	-2365.06 A	16.80 W	-6.71 J
	69.20 Z	35.11 X	0.43 D	-2578.16 A	19.35 W	-6.73 J
12.1	69.20 Z	35.10 X	0.43 D	-2578.16 A	19.36 W	-6.73 J
	70.90 Z	35.51 X	0.43 D	-2792.62 A	21.90 W	-6.74 J
6.0	70.90 Z	35.52 X	0.43 D	-2792.62 A	21.90 W	-6.74 J
	72.64 Z	35.93 X	0.43 D	-3008.48 A	24.40 W	-6.74 J

base	72.64 Z	-35.93 X	-0.43 D	3008.48 A	-24.40 W	6.74 J
reaction						

COMPLIANCE WITH 4.8.2 & 4.5.4
=====

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t (w/t)	MAX ALLOWED
107.00	0.00J	0.00C	0.00P	0.00C	YES	8.11A	45.2
	0.02Y	0.01G	0.02O	0.02AD	YES	8.96A	45.2
103.79	0.02Z	0.01L	0.02C	0.02AC	YES	8.96A	45.2
	0.02Z	0.12L	0.02C	0.13L	YES	9.82A	45.2
100.57	0.02Z	0.12L	0.02G	0.13L	YES	9.82A	45.2
	0.02Z	0.21G	0.02G	0.22G	YES	10.76A	45.2
97.00	0.02Z	0.23G	0.02G	0.24G	YES	10.41A	45.2
	0.02Z	0.34G	0.02G	0.34G	YES	12.07A	45.2
90.75	0.02Z	0.34G	0.02G	0.34G	YES	12.07A	45.2
	0.03Z	0.48G	0.03G	0.50G	YES	13.73A	45.2
84.50	0.03Z	0.48G	0.03G	0.50G	YES	13.73A	45.2
	0.03Z	0.59G	0.03G	0.61G	YES	15.38A	45.2
78.25	0.03Z	0.59G	0.03O	0.61G	YES	15.38A	45.2
	0.03Z	0.69G	0.04O	0.71G	YES	17.04A	45.2
72.00	0.03Z	0.69G	0.04O	0.71G	YES	17.04A	45.2
	0.03Z	0.79G	0.04O	0.81G	YES	18.70A	45.2
65.75	0.03Z	0.79G	0.04O	0.81G	YES	18.70A	45.2
	0.03Z	0.87G	0.03O	0.89G	YES	20.36A	45.2
59.50	0.03Z	0.87G	0.03O	0.89G	YES	20.36A	45.2
	0.03Z	0.93G	0.03X	0.95G	YES	22.01A	45.2
53.25	0.02Z	0.70G	0.03M	0.71G	YES	17.26A	45.2
	0.02Z	0.73G	0.03M	0.74G	YES	18.32A	45.2
48.25							

	0.02Z	0.74G	0.03X	0.76G	YES	18.04A	45.2
42.22	0.02Z	0.77G	0.03X	0.78G	YES	19.32A	45.2
	0.02Z	0.77G	0.03X	0.78G	YES	19.32A	45.2
36.19	0.02Z	0.79A	0.02X	0.80A	YES	20.60A	45.2
	0.02Z	0.79A	0.02M	0.80A	YES	20.60A	45.2
30.16	0.02Z	0.81A	0.02M	0.82A	YES	21.88A	45.2
	0.02Z	0.81A	0.02X	0.82A	YES	21.88A	45.2
24.12	0.02Z	0.82A	0.02X	0.83A	YES	23.16A	45.2
	0.02Z	0.82A	0.02X	0.83A	YES	23.16A	45.2
18.09	0.02Z	0.83A	0.02X	0.84A	YES	24.43A	45.2
	0.02Z	0.83A	0.02X	0.84A	YES	24.43A	45.2
12.06	0.02Z	0.84A	0.02X	0.85A	YES	25.71A	45.2
	0.02Z	0.84A	0.02X	0.85A	YES	25.71A	45.2
6.03	0.02Z	0.85A	0.02X	0.86A	YES	26.99A	45.2
	0.02Z	0.85A	0.02X	0.86A	YES	26.99A	45.2
0.00	0.02Z	0.86A	0.02X	0.87A	YES	28.27A	45.2

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

DOWN	SHEAR.w.r.t.WIND.DIR	MOMENT.w.r.t.WIND.DIR	TORSION
kip	ALONG ACROSS	ALONG ACROSS	ft-kip
kip	kip	ft-kip	ft-kip
72.64	35.93	0.43	-3008.48
Z	X	D	A
			W
			J

(USA 222-G) - Monopole Spatial Analysis (c)2015 Guymast Inc.

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108' Monopole / TI-OPP-17878, KY

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

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

LOADING CONDITION A =====

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

LOADS ON POLE

LOAD TYPE	ELEV	APPLY	LOAD	AT	LOAD	FORCES	MOMENTS
		RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL
							TORSNAL

	ft	ft			kip	kip	ft-kip	ft-kip
C	104.000	0.00	0.0	0.0	0.0000	0.9734	0.0000	0.0000
C	104.000	0.00	0.0	0.0	3.0631	6.0000	0.0000	0.0000
C	89.000	0.00	0.0	0.0	0.0000	0.8330	0.0000	0.0000
C	89.000	0.00	0.0	0.0	2.9653	6.0000	0.0000	0.0000
C	74.000	0.00	0.0	0.0	0.0000	0.6926	0.0000	0.0000
C	74.000	0.00	0.0	0.0	2.1351	4.0000	0.0000	0.0000
C	59.000	0.00	0.0	0.0	0.0000	0.0301	0.0000	0.0000
C	49.000	0.00	0.0	0.0	0.0000	0.0250	0.0000	0.0000
D	107.000	0.00	180.0	0.0	0.0089	0.0388	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0095	0.0420	0.0000	0.0000
D	100.571	0.00	180.0	0.0	0.0102	0.0769	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0102	0.0769	0.0000	0.0000
D	97.000	0.00	180.0	0.0	0.0111	0.0493	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0176	0.0870	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0181	0.2071	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0181	0.2071	0.0000	0.0000
D	48.250	0.00	180.0	0.0	0.0187	0.1214	0.0000	0.0000
D	18.094	0.00	180.0	0.0	0.0200	0.1518	0.0000	0.0000
D	18.094	0.00	180.0	0.0	0.0194	0.1594	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0209	0.1746	0.0000	0.0000

ANTENNA LOADING

=====

..... ANTENNA	ATTACHMENT				..... ANTENNA FORCES			
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	49.0	0.0	2.2	0.0	0.41	0.00	0.34	0.00
STD+R	59.0	0.0	2.0	0.0	0.43	0.00	0.34	0.00

=====

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

=====

MAST ELEV ft	..... DEFLECTIONS (ft) .....			..... ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
107.0	1.91G	-0.01F	0.05L	2.03G	-0.01F	0.00D
103.8	1.79G	-0.01F	0.05L	2.03G	-0.01F	0.00D
100.6	1.68G	0.00F	0.04L	2.02G	-0.01F	0.00D
97.0	1.55G	0.00F	0.04L	1.98G	-0.01F	0.00D
90.7	1.34G	0.00F	0.03L	1.88G	0.00F	0.00D
84.5	1.14L	0.00F	0.02L	1.76G	0.00F	0.00D
78.2	0.96L	0.00F	0.02L	1.61G	0.00F	0.00D
72.0	0.79L	0.00F	0.01L	1.45G	0.00F	0.00D
65.7	0.65L	0.00D	0.01L	1.28G	0.00F	0.00D
59.5	0.52L	0.00D	0.01L	1.11G	0.00F	0.00D
53.2	0.40L	0.00D	0.01L	0.94L	0.00F	0.00D
48.2	0.33L	0.00D	0.00L	0.84L	0.00F	0.00D
42.2	0.25L	0.00D	0.00L	0.71L	0.00D	0.00D
36.2	0.18L	0.00D	0.00L	0.59L	0.00D	0.00D
30.2	0.12L	0.00D	0.00L	0.48L	0.00D	0.00D
24.1	0.08L	0.00D	0.00L	0.37L	0.00D	0.00D
18.1	0.04L	0.00D	0.00L	0.27L	0.00D	0.00D
12.1	0.02L	0.00D	0.00A	0.18L	0.00D	0.00D
6.0	0.00L	0.00D	0.00B	0.09L	0.00D	0.00D

0.0 0.00A 0.00A 0.00A 0.00A 0.00A 0.00A

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS

=====

ELEV ft	ANT AZI deg	ANT TYPE	..... BEAM DEFLECTIONS (deg)			
			ROLL	YAW	PITCH	TOTAL
59.0	0.0	STD+R	1.078 D	0.011 K	-1.094 G	1.094 G
49.0	0.0	STD+R	0.839 D	0.007 K	-0.853 G	0.853 G

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

=====

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION ft-kip
		ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
107.0	0.00 B	0.00 E	0.00 H	-0.01 G	0.01 H	0.00 H
	7.10 B	3.10 E	0.00 H	-0.77 A	-0.01 C	0.00 B
103.8	7.10 B	3.11 C	-0.01 I	-0.77 B	-0.01 C	0.00 B
	7.24 B	3.14 C	-0.01 I	-11.59 I	-0.04 B	0.00 B
100.6	7.24 K	3.14 C	-0.01 H	-11.59 I	-0.04 B	0.00 B
	7.51 K	3.18 C	-0.01 H	-23.76 C	-0.07 B	0.00 B
97.0	7.51 I	3.17 C	-0.01 H	-23.75 C	0.07 C	0.00 B
	7.84 I	3.24 C	-0.01 H	-45.39 C	0.12 H	0.01 B
90.7	7.84 I	3.25 G	-0.01 H	-45.38 C	0.12 H	0.01 B
	15.03 I	6.29 G	-0.01 H	-81.75 G	0.19 H	0.01 B
84.5	15.03 I	6.29 E	0.01 E	-81.75 G	0.19 H	0.01 B
	15.42 I	6.38 E	0.01 E	-124.07 G	0.24 H	0.01 B
78.2	15.42 I	6.38 G	0.01 E	-124.08 G	0.24 H	0.01 B
	20.54 I	8.60 G	0.01 E	-171.30 G	-0.30 E	0.02 B
72.0	20.54 I	8.60 G	0.01 E	-171.29 G	-0.30 E	0.02 B
	21.00 I	8.70 G	0.01 E	-228.40 G	-0.37 E	0.02 B
65.7	21.00 I	8.70 G	0.01 E	-228.40 G	-0.37 E	0.02 B
	21.49 I	8.80 G	0.01 E	-285.81 G	-0.44 E	0.02 B
59.5	21.49 I	8.80 F	0.02 E	-285.80 G	-0.44 E	0.02 B
	22.39 I	9.31 L	0.07 D	-346.19 G	0.85 F	0.99 D
53.2	22.39 I	9.31 A	0.07 D	-346.18 G	0.85 F	0.99 D
	23.79 I	9.81 A	0.13 D	-395.36 G	1.33 F	1.99 D
48.2	23.79 I	9.81 L	0.13 D	-395.37 G	1.34 F	1.99 D
	24.54 I	9.93 L	0.13 D	-455.94 G	1.55 F	2.00 D
42.2	24.54 I	9.93 A	0.13 D	-455.95 G	1.54 F	2.00 D
	25.32 I	10.04 A	0.13 D	-516.99 G	1.77 F	2.01 D
36.2	25.32 I	10.04 A	0.13 D	-516.99 G	1.77 F	2.01 D

30.2	26.15 I	10.16 A	0.13 D	-578.67 L	1.98 F	2.01 D
	26.15 I	10.16 L	0.13 D	-578.67 L	1.98 F	2.01 D
24.1	27.01 I	10.28 L	0.13 D	-641.48 L	-2.49 D	2.01 D
	27.01 I	10.28 L	0.13 D	-641.48 L	-2.49 D	2.01 D
18.1	27.90 I	10.40 L	0.13 D	-704.77 L	-3.27 D	2.02 D
	27.90 I	10.40 L	0.13 D	-704.77 L	-3.27 D	2.02 D
12.1	28.88 I	10.52 L	0.13 D	-768.54 L	-4.05 D	2.02 D
	28.88 I	10.52 L	0.13 D	-768.54 L	-4.05 D	2.02 D
6.0	29.89 I	10.64 L	0.13 D	-832.76 L	-4.82 D	2.02 D
	29.89 I	10.64 L	0.13 D	-832.76 L	-4.82 D	2.02 D
	30.93 I	10.77 L	0.13 D	-897.44 L	-5.59 D	2.02 D
base reaction	30.93 I	-10.77 L	-0.13 D	897.44 L	5.59 D	-2.02 D

COMPLIANCE WITH 4.8.2 & 4.5.4
=====

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t (w/t)	MAX ALLOWED
107.00	0.00B	0.00G	0.00E	0.00G	YES	8.11A	45.2
103.79	0.01B	0.00A	0.01E	0.01A	YES	8.96A	45.2
	0.01B	0.00B	0.01C	0.01B	YES	8.96A	45.2
100.57	0.01B	0.04I	0.01C	0.04I	YES	9.82A	45.2
	0.01K	0.04I	0.01C	0.04I	YES	9.82A	45.2
97.00	0.01K	0.06C	0.01C	0.07C	YES	10.76A	45.2
	0.01I	0.07C	0.01C	0.08C	YES	10.41A	45.2
90.75	0.01I	0.10C	0.01C	0.11C	YES	12.07A	45.2
	0.01I	0.10C	0.01G	0.11C	YES	12.07A	45.2
84.50	0.01I	0.14G	0.01G	0.16G	YES	13.73A	45.2
	0.01I	0.14G	0.01E	0.16G	YES	13.73A	45.2
78.25	0.01I	0.18G	0.01E	0.19G	YES	15.38A	45.2
	0.01I	0.18G	0.01G	0.19G	YES	15.38A	45.2
72.00	0.01I	0.21G	0.01G	0.22G	YES	17.04A	45.2
	0.01I	0.21G	0.01G	0.22G	YES	17.04A	45.2
65.75	0.01I	0.24G	0.01G	0.25G	YES	18.70A	45.2
	0.01I	0.24G	0.01G	0.25G	YES	18.70A	45.2
59.50	0.01I	0.26G	0.01G	0.27G	YES	20.36A	45.2
	0.01I	0.26G	0.01F	0.27G	YES	20.36A	45.2
53.25	0.01I	0.28G	0.01L	0.29G	YES	22.01A	45.2
	0.01I	0.21G	0.01A	0.22G	YES	17.26A	45.2
48.25	0.01I	0.22G	0.01A	0.23G	YES	18.32A	45.2
	0.01I	0.22G	0.01L	0.23G	YES	18.04A	45.2

42.22	0.01I	0.23G	0.01L	0.24G	YES	19.32A	45.2
	0.01I	0.23G	0.01A	0.24G	YES	19.32A	45.2
36.19	0.01I	0.24G	0.01A	0.25G	YES	20.60A	45.2
	0.01I	0.24G	0.01A	0.25G	YES	20.60A	45.2
30.16	0.01I	0.24L	0.01A	0.25L	YES	21.88A	45.2
	0.01I	0.24L	0.01L	0.25L	YES	21.88A	45.2
24.12	0.01I	0.24L	0.01L	0.25L	YES	23.16A	45.2
	0.01I	0.24L	0.01L	0.25L	YES	23.16A	45.2
18.09	0.01I	0.25L	0.01L	0.26L	YES	24.43A	45.2
	0.01I	0.25L	0.01L	0.26L	YES	24.43A	45.2
12.06	0.01I	0.25L	0.01L	0.26L	YES	25.71A	45.2
	0.01I	0.25L	0.01L	0.26L	YES	25.71A	45.2
6.03	0.01I	0.25L	0.01L	0.26L	YES	26.99A	45.2
	0.01I	0.25L	0.01L	0.26L	YES	26.99A	45.2
0.00	0.01I	0.26L	0.01L	0.27L	YES	28.27A	45.2

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

DOWN kip	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION ft-kip
	ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
30.93 I	10.77 L	0.13 D	-897.44 L	-5.59 D	2.02 D

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

		Vertical Distribution of Seismic Forces						
		h_i (ft.)	w_i (kips)	W_{i1} (kips)	$\frac{w_i h_i^{k_e}}{F_{sz} \text{ or } E_{ih}}$ (kips)	E_v (kips)	$1.2 D + 1.0 E_v$ (kips)	$0.9 D - 1.0 E_v$ (kips)
Parameters								
Risk Category	II							
R	1.500							
S _S	0.263							
S ₁	0.126							
Site Class	D (default)							
T _L (sec)	12.000							
F _a	1.590							
F _v	2.348							
S _{MS}	0.418							
S _{M1}	0.296							
S _{DS}	0.279							
S _{D1}	0.197							
T _s	0.706							
I _e	1.000							
Ω	1.500							
C _s	0.058							
E (ksi)	29,000							
l _{top} (in ⁴)	261							
l _{bot} (in ⁴)	18,612							
l _{avg} (in ⁴)	9,437							
g (in/s ²)	386.4							
W _t (kips)	31.690							
W _u (kips)	16.000							
W _L (kips)	15.690							
L _p (in)	1284							
f ₁ (Hertz)	0.439							
T (sec)	2.278							
k _e	1.8890							
V _s (kips)	1.838							
Seismic Design Category	C							
		Σ	31.69	16.0000	115,169.41	1.84	1.77	26.75

Round Flange Plate and Bolts per ANSI/TIA 222-G
Elevation = 107 feet

Pole Data

Diameter: 14 in
 Thickness: 0.25 in
 Yield (Fy): 65 ksi
 # of Sides: 18 "0" IF Round
 Strength (Fu): 80 ksi

Reactions

Moment, Mu: 227 ft-kips
 Axial, Pu: 0 kips
 Shear, Vu: 0 kips

Bolt Data

Quantity: 10
 Diameter: 1.25 in
 Bolt Material: A325
 Strength (Fu): 105 ksi
 Yield (Fy): 81 ksi
 BC Diam. (in): 17.75 BC Override:

Flange Bolt Results

Allowable Φ *Rnt: 76.31 kips
 Adjusted Φ *Rnt (due to shear): 76.31 kips
 Maximum Bolt Tension: 61.39 kips
 Bolt Interaction Ratio: **80.4% Pass**

Plate Data

Diameter (in): 21 Dia. Override:
 Thickness: 1.5 in
 Center Hole Diam.: 7 in
 Yield (Fy): 50 ksi
 Single-Rod B-eff: 4.44 in
 Drain Hole: 1 in. diameter
 Drain Location: 5.75 in. center of pole to center of drain hole

Flange Plate Results

Compression Side Plate (Mu/Z): 27.4 ksi
 Allowable Φ *Fy: 45.0 ksi
 Compr. Plate Interaction Ratio: **60.9% Pass**

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

Pole Data

Diameter: 53.230 in (flat to flat)
Thickness: 0.3125 in
Yield (Fy): 65 ksi
of Sides: 18 "0" IF Round
Strength (Fu): 80 ksi

Reactions

Moment, Mu: 3008.48 ft-kips
Axial, Pu: 37.12 kips
Shear, Vu: 35.91 kips

Anchor Rod Data

Quantity: 12
Diameter: 2.25 in
Rod Material: A615
Strength (Fu): 100 ksi
Yield (Fy): 75 ksi
BC Diam. (in): 59.75 BC Override:

Anchor Rod Results

Maximum Rod (Pu+ Vu/η): 210.5 Kips
Allowable $\Phi \cdot R_{nt}$: 260.0 Kips (per 4.9.9)
Anchor Rod Interaction Ratio: **81.0% Pass**

Plate Data

Diameter (in): 65.5 Dia. Override:
Thickness: 2 in
Yield (Fy): 50 ksi
Eff Width/Rod: 14.08 in
Drain Hole: 2.625 in. diameter
Drain Location: 24.5 in. center of pole to center of drain hole
Center Hole: 41 in. diameter

Base Plate Results

Base Plate (Mu/Z): 32.7 ksi
Allowable $\Phi \cdot F_y$: 45.0 ksi (per AISC)
Base Plate Interaction Ratio: **72.6% Pass**

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

108' Monopole TILLMAN INFRASTRUCTURE, LLC TI-OPP-17878, KY (25-0065-RRM-R1) 09/24/24 TTW

Overall Loads:

Factored Moment (ft-kips)	3008.48
Factored Axial (kips)	37.12
Factored Shear (kips)	35.91
Bearing Design Strength (ksf)	3.87
Water Table Below Grade (ft)	999
Width of Mat (ft)	22.5
Thickness of Mat (ft)	1.5
Depth to Bottom of Slab (ft)	6
Quantity of Bolts in Bolt Circle	12
Bolt Circle Diameter (in)	59.75
Top of Concrete to Top of Bottom Threads (in)	60
Diameter of Pier (ft)	7
Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	4.5
Quantity of Bars in Mat	41
Bar Diameter in Mat (in)	1
Area of Bars in Mat (in ²)	32.20
Spacing of Bars in Mat (in)	6.58
Quantity of Bars Pier	36
Bar Diameter in Pier (in)	1
Tie Bar Diameter in Pier (in)	0.625
Spacing of Ties (in)	12
Area of Bars in Pier (in ²)	28.27
Spacing of Bars in Pier (in)	6.61
f'c (ksi)	4.5
fy (ksi)	60
Unit Wt. of Soil (kcf)	0.112
Unit Wt. of Concrete (kcf)	0.15

Max. Net Bearing Press. (ksf)	3.71
Allowable Bearing Pressure (ksf)	2.58
Safety Factor	2.00
Ultimate Bearing Pressure (ksf)	5.16
Bearing Φs	0.75

Minimum Pier Diameter (ft)	6.31
Equivalent Square b (ft)	6.20
Square Pier? (Y/N)	N

Recommended Spacing (in)	5 to 12
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Minimum Pier A _s (in ²)	27.71
Recommended Spacing (in)	5 to 12

Volume of Concrete (yd³) 35.25

Two-Way Shear Action:

Average d (in)	14
φv _c (ksi)	0.218
φv _c = φ(2 + 4/β _c)f' _c ^{1/2}	0.342
φv _c = φ(α _s d/b _o +2)f' _c ^{1/2}	0.218
φv _c = φ4f' _c ^{1/2}	0.228
Shear perimeter, b _o (in)	307.88
β _c	1

v _u (ksi)	0.152
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One-Way Shear:

φV _c (kips)	431.1
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V _u (kips)	262.4
-----------------------	-------

Stability:

Overturning Design Strength (ft-k)	4145.7
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Total Applied M (ft-k)	3241.9
------------------------	--------

Pier-Slab Transfer by Flexure:

b _{slab} (ft)	11.50
ØM _n (ft-kips)	1935.2

0.60M _{sc} (ft-kips)	1912.8
-------------------------------	--------

Pier Design:			
ϕV_n (kips)	645.9	V_u (kips)	35.9
$\phi V_c = \phi 2(1 + N_u / (2000 A_g)) f'_c{}^{1/2} b_w d$	645.9		
V_s (kips)	0.0	*** $V_s \text{ max} = 4 f'_c{}^{1/2} b_w d$ (kips)	1514.7
Maximum Spacing (in)	8.71	(Only if Shear Ties are Required)	
Actual Hook Development (in)	13.00	Req'd Hook Development l_{dh} (in)	12.52
		*** Ref. To Spacing Requirements ACI 11.5.4.3	

Flexure in Slab:			
ϕM_n (ft-kips)	1893.1	M_u (ft-kips)	1469.0
a (in)	1.87		
Steel Ratio	0.00852		
β_1	0.825		
Maximum Steel Ratio (ρ_t)	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	94.78	Required Development in Pad (in)	26.83

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Interaction Diagram	1
Two-Way Shear Action	1
One-Way Shear Action	1
Overtuning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1

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LFile for Windows, Version 2019-11.009

Analysis of Individual Files and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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This copy of LFile is being used by:

TTW
Sioux City

Serial Number of Security Device: 227885655

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is a violation of the software license agreement.

Files Used for Analysis

Path to file locations:
\Program Files (x86)\Ensoft\Lpile2019\files\

Name of input data file:
25-0065-RRM-R1.lpl1d

Name of output report file:
25-0065-RRM-R1.lpl1o

Name of plot output file:
25-0065-RRM-R1.lpl1p

Name of runtime message file:
25-0065-RRM-R1.lpl1r

Date and Time of Analysis

Date: September 24, 2024 Time: 10:37:21

Problem Title

Site : TI-OPP-17878, KY

Tower : 108' Monopole

Prepared for : TILLMAN INFRASTRUCTURE, LLC

Job Number : 25-0065-RRM-R1

Engineer : TTW

Program Options and Settings

Computational Options:

- Conventional Analysis
- Engineering Units Used for Data Input and Computations:
- US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed = 999
- Deflection tolerance for convergence = 1.0000E-05 in
- Maximum allowable deflection = 100.0000 in
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:

- Static loading specified
- Use of p-y modification factors for p-y curves not selected
- Analysis uses layering correction (Method of Georgiadis)
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:

- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

- Number of pile sections defined = 1
- Total length of pile = 23.500 ft
- Depth of ground surface below top of pile = 0.5000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	84.0000
2	23.500	84.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

- Section 1 is a round drilled shaft, bored pile, or CIDH pile
- Length of section = 23.500000 ft
- Shaft Diameter = 84.000000 in
- Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

- Ground Slope Angle = 0.000 degrees
- = 0.000 radians
- Pile Batter Angle = 0.000 degrees
- = 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 6 layers

Layer 1 is stiff clay without free water

Distance from top of pile to top of layer	=	0.500000	ft
Distance from top of pile to bottom of layer	=	3.500000	ft
Effective unit weight at top of layer	=	110.000000	pcf
Effective unit weight at bottom of layer	=	110.000000	pcf
Undrained cohesion at top of layer	=	500.000000	psf
Undrained cohesion at bottom of layer	=	500.000000	psf
Epsilon-50 at top of layer	=	0.020000	
Epsilon-50 at bottom of layer	=	0.020000	

Layer 2 is stiff clay without free water

Distance from top of pile to top of layer	=	3.500000	ft
Distance from top of pile to bottom of layer	=	6.500000	ft
Effective unit weight at top of layer	=	120.000000	pcf
Effective unit weight at bottom of layer	=	120.000000	pcf
Undrained cohesion at top of layer	=	1600.	psf
Undrained cohesion at bottom of layer	=	1600.	psf
Epsilon-50 at top of layer	=	0.007000	
Epsilon-50 at bottom of layer	=	0.007000	

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer	=	6.500000	ft
Distance from top of pile to bottom of layer	=	8.500000	ft
Effective unit weight at top of layer	=	120.000000	pcf
Effective unit weight at bottom of layer	=	120.000000	pcf
Undrained cohesion at top of layer	=	800.000000	psf
Undrained cohesion at bottom of layer	=	800.000000	psf
Epsilon-50 at top of layer	=	0.010000	
Epsilon-50 at bottom of layer	=	0.010000	

Layer 4 is stiff clay without free water

Distance from top of pile to top of layer	=	8.500000	ft
Distance from top of pile to bottom of layer	=	13.500000	ft
Effective unit weight at top of layer	=	120.000000	pcf
Effective unit weight at bottom of layer	=	120.000000	pcf
Undrained cohesion at top of layer	=	1200.	psf
Undrained cohesion at bottom of layer	=	1200.	psf
Epsilon-50 at top of layer	=	0.007000	
Epsilon-50 at bottom of layer	=	0.007000	

Layer 5 is stiff clay without free water

Distance from top of pile to top of layer	=	13.500000	ft
Distance from top of pile to bottom of layer	=	16.000000	ft
Effective unit weight at top of layer	=	125.000000	pcf
Effective unit weight at bottom of layer	=	125.000000	pcf
Undrained cohesion at top of layer	=	4000.	psf
Undrained cohesion at bottom of layer	=	4000.	psf
Epsilon-50 at top of layer	=	0.005000	
Epsilon-50 at bottom of layer	=	0.005000	

Layer 6 is stiff clay without free water

Distance from top of pile to top of layer	=	16.000000	ft
Distance from top of pile to bottom of layer	=	26.000000	ft
Effective unit weight at top of layer	=	140.000000	pcf
Effective unit weight at bottom of layer	=	140.000000	pcf
Undrained cohesion at top of layer	=	4500.	psf
Undrained cohesion at bottom of layer	=	4500.	psf
Epsilon-50 at top of layer	=	0.004000	
Epsilon-50 at bottom of layer	=	0.004000	

(Depth of the lowest soil layer extends 2.500 ft below the pile tip)

**** Warning - Possible Input Data Error ****

Values entered for effective unit weights of soil were outside the limits of 20 pcf to 140 pcf.

The maximum input value, in layer 6, for effective unit weight = 140.00 pcf

This data may be erroneous. Please check your data.

 Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Cohesion psf	E50 or krm
1	Stiff Clay	0.5000	110.0000	500.0000	0.02000
	w/o Free Water	3.5000	110.0000	500.0000	0.02000
2	Stiff Clay	3.5000	120.0000	1600.	0.00700
	w/o Free Water	6.5000	120.0000	1600.	0.00700
3	Stiff Clay	6.5000	120.0000	800.0000	0.01000
	w/o Free Water	8.5000	120.0000	800.0000	0.01000
4	Stiff Clay	8.5000	120.0000	1200.	0.00700
	w/o Free Water	13.5000	120.0000	1200.	0.00700
5	Stiff Clay	13.5000	125.0000	4000.	0.00500
	w/o Free Water	16.0000	125.0000	4000.	0.00500
6	Stiff Clay	16.0000	140.0000	4500.	0.00400
	w/o Free Water	26.0000	140.0000	4500.	0.00400

 Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

 Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load Analysis No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length	Run
1	1	V = 47880. lbs	M = 48135680. in-lbs	49493.	No	
2	1	V = 10770. lbs	M = 10769280. in-lbs	30930.	No	

V = shear force applied normal to pile axis
 M = bending moment applied to pile head
 y = lateral deflection normal to pile axis
 S = pile slope relative to original pile batter angle
 R = rotational stiffness applied to pile head
 Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
 Thrust force is assumed to be acting axially for all pile batter angles.

 Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

File Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section = 23.500000 ft

Shaft Diameter = 84.000000 in
 Concrete Cover Thickness (to edge of long. rebar) = 3.625000 in
 Number of Reinforcing Bars = 36 bars
 Yield Stress of Reinforcing Bars = 60000. psi
 Modulus of Elasticity of Reinforcing Bars = 29000000. psi
 Gross Area of Shaft = 5542. sq. in.
 Total Area of Reinforcing Steel = 28.274334 sq. in.
 Area Ratio of Steel Reinforcement = 0.51 percent
 Edge-to-Edge Bar Spacing = 5.602048 in
 Maximum Concrete Aggregate Size = 0.750000 in
 Ratio of Bar Spacing to Aggregate Size = 7.47
 Offset of Center of Rebar Cage from Center of Pile = 0.0000 in

Axial Structural Capacities:

 Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$ = 22785.579 kips
 Tensile Load for Cracking of Concrete = -2522.125 kips
 Nominal Axial Tensile Capacity = -1696.460 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.000000	0.785398	37.875000	0.000000
2	1.000000	0.785398	37.299594	6.576925
3	1.000000	0.785398	35.590858	12.954013
4	1.000000	0.785398	32.800712	18.937500
5	1.000000	0.785398	29.013933	24.345581
6	1.000000	0.785398	24.345581	29.013933
7	1.000000	0.785398	18.937500	32.800712
8	1.000000	0.785398	12.954013	35.590858
9	1.000000	0.785398	6.576925	37.299594
10	1.000000	0.785398	0.000000	37.875000
11	1.000000	0.785398	-6.576925	37.299594
12	1.000000	0.785398	-12.954013	35.590858
13	1.000000	0.785398	-18.937500	32.800712
14	1.000000	0.785398	-24.345581	29.013933
15	1.000000	0.785398	-29.013933	24.345581
16	1.000000	0.785398	-32.800712	18.937500
17	1.000000	0.785398	-35.590858	12.954013
18	1.000000	0.785398	-37.299594	6.576925
19	1.000000	0.785398	-37.875000	0.000000
20	1.000000	0.785398	-37.299594	-6.576925
21	1.000000	0.785398	-35.590858	-12.954013
22	1.000000	0.785398	-32.800712	-18.937500
23	1.000000	0.785398	-29.013933	-24.345581
24	1.000000	0.785398	-24.345581	-29.013933
25	1.000000	0.785398	-18.937500	-32.800712
26	1.000000	0.785398	-12.954013	-35.590858
27	1.000000	0.785398	-6.576925	-37.299594
28	1.000000	0.785398	0.000000	-37.875000
29	1.000000	0.785398	6.576925	-37.299594
30	1.000000	0.785398	12.954013	-35.590858
31	1.000000	0.785398	18.937500	-32.800712
32	1.000000	0.785398	24.345581	-29.013933
33	1.000000	0.785398	29.013933	-24.345581
34	1.000000	0.785398	32.800712	-18.937500
35	1.000000	0.785398	35.590858	-12.954013
36	1.000000	0.785398	37.299594	-6.576925

NOTE: The positions of the above rebars were computed by LFile

Minimum spacing between any two bars not equal to zero = 5.602 inches
 between bars 30 and 31.

Ratio of bar spacing to maximum aggregate size = 7.47

Concrete Properties:

 Compressive Strength of Concrete = 4500. psi
 Modulus of Elasticity of Concrete = 3823676. psi
 Modulus of Rupture of Concrete = -503.115295 psi
 Compression Strain at Peak Stress = 0.002001
 Tensile Strain at Fracture of Concrete = -0.0001152
 Maximum Coarse Aggregate Size = 0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	30.930
2	49.493

 Summary of Results for Nominal Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
 or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	30.930	62968.159	0.00300000
2	49.493	63586.217	0.00300000

Note that the values of moment capacity in the table above are not factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.75).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Load No.	Resist. Factor	Nominal Ax. Thrust kips	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in ²
1	0.65	30.930000	62968.	20.104500	40929.	1.3478E+09
2	0.65	49.493333	63586.	32.170667	41331.	1.3633E+09
1	0.75	30.930000	62968.	23.197500	47226.	1.2985E+09
2	0.75	49.493333	63586.	37.120000	47690.	1.3138E+09
1	0.90	30.930000	62968.	27.837000	56671.	825617415.
2	0.90	49.493333	63586.	44.544000	57228.	835879663.

 Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.5000	0.00	N.A.	No	0.00	36214.
2	3.5000	1.0519	Yes	No	36214.	112799.
3	6.5000	7.0748	Yes	No	149012.	53240.
4	8.5000	6.7484	Yes	No	202252.	192212.
5	13.5000	4.3744	Yes	No	394464.	249552.
6	16.0000	6.1901	Yes	No	644016.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

 Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
 Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
 Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
 Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
 Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

Load Case No.	Load Type 1	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	47880.	M, in-lb	4.81E+07	49493.	15.7819	-0.07848	-474744.	5.00E+07
2	V, lb	10770.	M, in-lb	1.08E+07	30930.	0.04786	-3.24E-04	-99786.	1.11E+07

Maximum pile-head deflection = 15.7819090552 inches
 Maximum pile-head rotation = -0.0784791558 radians = -4.496524 deg.

The analysis ended normally.

IBC 1807.3.2.1

Moment (ft·k)	3,008.48	
Shear (k)	35.91	
Caisson diameter (ft)	7	
Caisson height above ground (ft)	0.5	
Caisson height below ground (ft)	21	
Lateral soil pressure (lb/ft ²)	535.71	
Ground to application of force, h (ft)	84.28	
Applied lateral force, P (lb)	35,910	
Lateral soil bearing pressure, S ₁ (lb/ft)	3,750.00	
Diameter, b (ft)	7	
A	3.20	= (2.34P)/(S ₁ b)
Minimum depth of embedment, d (ft)	18.82	= 0.5A[1 + (1 + (4.36h / A)) ^{1/2}]

EXHIBIT D

COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

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

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

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4002000	1GLOBAL Operations (US) Inc.	Cellular	D	Durham	NC
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	Henderson	NV
<input type="button" value="View"/>	4115150	ACN Communication Services, LLC dba Flash Wireless dba Flash Mobile	Cellular	D	Concord	
<input type="button" value="View"/>	4113600	AFNET, LLC	Cellular	D	Alpharetta	GA
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC d/b/a AirTalk Wireless	Cellular	A	Houston	TX
<input type="button" value="View"/>	4115200	Airespring, Inc.	Cellular	C	Clearwater	FL
<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.	Cellular	D	Virginia Beach	VA

		d/b/a Affinity 4				
View	4114250	Approved Contact LLC	Cellular	D	Reno	NV
View	4115050	Aquarius Silver LLC	Cellular	C	Sheridan	WY
View	4105700	Assurance Wireless USA, L.P.	Cellular	D	Atlanta	GA
View	4114150	Atlantic Mobile US LLC d/b/a Angel Mobile	Cellular	D	Wilmington	DE
View	4113100	BARK TECHNOLOGIES, INC.	Cellular	D	Charlotte	NC
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4107600	Boomerang Wireless, LLC	Cellular	A	Dallas	TX
View	4115500	CALL CENTERS INDIA INCORPORATED d/b/a Blueconnects	Cellular		Seattle	WA
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4112900	Clear Mobile, LLC	Cellular	D	Tulsa	OK
View	4114550	Cliq Communications LLC d/b/a Cliq Mobile	Cellular	D	Coral Gables	FL
View	4111150	Comcast OTR1, LLC	Cellular	A	Phoeniexville	PA
View	4113550	Comlink Total Solutions Corp	Cellular	D	Fort Myers	FL
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4112700	Cox Wireless, LLC	Cellular	D	Atlanta	GA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	B	Long Island City	NY
View	4114000	Daywalker Mobile Inc.	Cellular	D	Bartlesville	OK
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	B	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	4113250	Elevate Platforms, LLC	Cellular	D	Nashville	TN

View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4113800	EVOLVE WIRELESS LLC	Cellular	D	Maumee	OH
View	4110450	Excellus Communications, LLC	Cellular	D	Harrisburg	SD
View	4112400	Excess Telecom Inc.	Cellular	D	Beverly Hills	CA
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	A	Lehi	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Miami	FL
View	4102200	Globalstar USA, LLC	Cellular	C	Covington	LA
View	4112850	GO TECHNOLOGY MANAGEMENT, LLC	Cellular	D	Atlanta	GA
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	4113500	GR8 CONNECT Corp.	Cellular	C	Brooklyn	NY
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4114300	Group F Consulting, LLC	Cellular	D		
View	4114050	Helix Wireless Inc.	Cellular	D	Monmouth Junction	NJ
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4112950	Hoop Wireless, LLC	Cellular	D	Lakewood	NJ
View	4103100	i-Wireless, LLC	Cellular	C	Newport	KY
View	4112550	IDT Domestic Telecom, Inc.	Cellular	D	Newark	NJ
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
View	4112650	Insight Mobile, Inc.	Cellular	D	Los Angeles	CA
View	4115300	Interactivetel LLC	Cellular	C	Houston	TX
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	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	B	Sunny Isles Beach	FL
View	4114900	Liberty Wireless, LLC	Cellular	C	Rockville	MD
View	4114750	Link Mobile, Inc.	Cellular	C	New York	NY
View	4111400	Locus Telecommunications, LLC	Cellular	D	Fort Lee	NJ
View	4114500	Lux Mobile USA, Inc	Cellular	D	Baton Rouge	LA

View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	B	Westlake Village	CA
View	4113850	MAXSIP TEL KENTUCKY LLC d/b/a Maxsip Telecom	Cellular	D	Woodmere	NY
View	4114800	Mediacom Wireless LLC	Cellular	C	Mediacom Park	NY
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	A	Costa Mesa	CA
View	4111850	Mobi, Inc.	Cellular	D	Honolulu	HI
View	4115100	Mobile 13, Inc	Cellular	C	South Jordan	UT
View	4114100	MVNO Connect LLC	Cellular	D	St. Petersburg	FL
View	4113350	NatWireless, LLC	Cellular	D	Houston	TX
View	4202400	New Cingular Wireless PCS, LLC	Cellular	A	San Antonio	TX
View	4110700	Norcell, LLC	Cellular	D	Clayton	WA
View	4113700	Nova Labs, Inc. dba Helium Mobile	Cellular	D	Las Vegas	NV
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4114950	Panda Mobile LLC	Cellular	C	Sparks	NV
View	4109050	Patriot Mobile LLC	Cellular	B	Grapevine	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	4114850	POWER MOBILE LLC	Cellular	C	Rockville Centre	NY
View	4112800	Prepaid Wireless Group, LLC dba Prepaid Wireless Wholesale	Cellular	D	Rockville	MD
View	4114350	PRESTO WIRELESS Corp.	Cellular	D	Fair Lawn	NJ
View	4115000	Prosper Wireless LLC	Cellular	D	Sherman Oaks	CA
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	D	Cedar Rapids	IA
View	4113200	Red Pocket Inc.	Cellular	D	Thousand Oaks	CA
View	4114200	Rocstar Wireless LLC	Cellular	D	Bedford	TX
View	4114700	Rocket Mobile LLC	Cellular	C	West Palm Beach	FL
View	4115400	RSCU Mobile, LLC	Cellular	C	Alpine	UT

View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	A	Los Angeles	CA
View	4113050	Sarver Corporation	Cellular	D	Rancho Cucamonga	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	A	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	4114400	Splash Cellular Inc.	Cellular	D	Bountiful	UT
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4115450	Surf Telecom, LLC	Cellular	C	Key Bixcayne	FL
View	4113450	Syntegra North America, LLC	Cellular	D	Denton	TX
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobility, LLC d/b/a TAG Mobile	Cellular	D	Plano	TX
View	4107200	Telefonica Global Solutions USA, Inc.	Cellular	D	Miami	FL
View	4112100	Tello LLC	Cellular	A	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Dallas	TX
View	4113900	TERRACOM Inc. d/b/a Maxsip Tel	Cellular	D	Chattanooga	TN
View	4113950	THE LIGHT PHONE INC.	Cellular	D	Brooklyn	NY
View	4110400	Torch Wireless Corp.	Cellular	C	Bartlett	TN
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4115350	TREK CELLULAR, LLC	Cellular	C	Stevensville	MD
View	4112250	TROOMI WIRELESS, Inc.	Cellular	D	Orem	UT
View	4114600	TruConnect Communications, Inc.	Cellular	D	Los Angeles	CA
View	4112600	Tube Incorporated dba Reach Mobile	Cellular	D	Atlanta	GA
View	4112750	Unity Wireless, Inc.	Cellular	D	Pembroke Pines	FL
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	C	Costa Mesa	CA
View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ

View	4113300	Via Wireless, LLC	Cellular	D	Houston	TX
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4113750	VOLT MOBILE Inc	Cellular	D	Delray Beach	FL
View	4114450	WeIncentivize LLC d/b/a ChosenWireless	Cellular	D	San Diego	CA
View	4113000	Whoop Connect Inc.	Cellular	D	Melbourne	FL
View	4115250	WHOOP MOBILE INC.	Cellular	C	Melbourne	FL
View	4106500	WiMacTel, Inc.	Cellular	D	Calgary, AB	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY
View	4113400	Wrizzle, Inc.	Cellular	D	New Milford	CT
View	4113650	XCHANGE TELECOM LLC	Cellular	D	Brooklyn	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.
 2023-ASO-31406-OE

Issued Date: 03/25/2024

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 Falls of Rough, KY - TI-17878
 Location: Falls of Rough, KY
 Latitude: 37-35-46.17N NAD 83
 Longitude: 86-29-26.44W
 Heights: 676 feet site elevation (SE)
 111 feet above ground level (AGL)
 787 feet above mean sea level (AMSL)

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

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

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.

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

This determination expires on 09/25/2025 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ASO-31406-OE.

Signature Control No: 605015920-616495181

(DNE)

Chris Smith
Specialist

Attachment(s)
Additional Information
Frequency Data

Map(s)

cc: FCC

BASIS FOR DECISION:

Part 77 authorizes the FAA to evaluate a structure or object's potential electromagnetic effects on air navigation, communication facilities, and other surveillance systems. It also authorizes study of impact on arrival, departure, and en route procedures for aircraft operating under visual or instrument flight rules, as well as the impact on airport traffic capacity at existing public use airports. Broadcast in the 3.7 to 3.98 GHz frequency (5G C band) currently causes errors in certain aircraft radio altimeters and the FAA has determined they cannot be relied upon to perform their intended function when experiencing interference from wireless broadband operations in the 5G C band. The FAA has adopted Airworthiness Directives for all transport and commuter category aircraft equipped with radio altimeters that prohibit certain operations when in the presence of 5G C band.

This determination of no hazard is based upon those mitigations implemented by the FAA and operators of transport and commuter category aircraft, and helicopters operating in the vicinity of your proposed location. It is also based on telecommunication industry and FAA collaboration on acceptable power levels and other parameters as reflected in the FAA 5G C band evaluation process.

The FAA 5G C band compatibility evaluation is a data analytics system used by FAA to evaluate operational hazards related to aircraft design. The FAA 5G C band compatibility evaluation process refers to the process in which the telecommunication companies and the FAA have set parameters, such as power output, locations, frequencies, and tilt angles for antenna that mitigate the hazard to aviation. As the telecommunication companies and FAA refine the tools and methodology, the allowable frequencies and power levels may change in the FAA 5G C band compatibility evaluation process. Therefore, your proposal will not have a substantial adverse effect on the safe and efficient use of the navigable airspace by aircraft provided the equipment and emissions are in compliance with the parameters established through the FAA 5G C band compatibility evaluation process.

Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

Frequency Data for ASN 2023-ASO-31406-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	824	MHz	500	W
806	901	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1990	MHz	1640	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2310	MHz	2000	W
2305	2360	MHz	2000	W
2345	2360	MHz	2000	W
3450	3550	MHz	3280	W
3700	3980	MHz	3280	W





EXHIBIT F

KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Department of Aviation, 90 Airport Road
Frankfort, KY 40601
www.transportation.ky.gov
502-564-0151

JIM GRAY
Secretary

APPROVAL OF APPLICATION

Tuesday, April 9, 2024

Tilman Infrastructure, LLC
152 West 57th Street, 8th Floor
New York, NY 10019

AS-2024-031-213 **Rough River State Park Airport**

APPLICANTS NAME: Tillman Infrastructure, LLC
NEAREST CITY: Falls of Rough, KY
LATITUDE/LONGITUDE: 37°35'46.17" N, 86°29'26.44" W
HEIGHT (In Feet): 111' AGL /871' AMSL
CONSTRUCTION PROPOSED: Telecommunications Tower

NOTES: The tower location is approximately 1.1 nm S of 213. It exceeds the 100:1 Slope Surface by 146+ ft and the Horizontal Surface by 60 ft.

FAA DETERMINATION: 2023-ASO-31406-OE. No Hazard/No Impact to Navigation. Lighting not Required. Emissions from this site must adhere to the FAA 5G C-band compatibility evaluation process.

This letter is to notify you that the Kentucky Airport Zoning Commission approved your permit application for the construction of Structures at the Location, Coordinates, and Height as indicated above. Construction must comply with requirements, if any, listed in the FAA Determination.

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

An email of this letter was also sent to your representative, Badon Delmotte, at compliance@consultdms.com. If you have any questions, please contact us.

Respectfully,

Anthony Adams

Airport Zoning Commission Administrator
KY Department of Aviation
502-564-0151 Office
AirportZoning@ky.gov

EXHIBIT G
GEOTECHNICAL REPORT



DELTA OAKS GROUP

GEOTECHNICAL INVESTIGATION REPORT

July 29, 2024

Prepared For:

LCS Wireless



**TI-OPP-17878
15346957**

Proposed 108-Foot Monopole Tower

2589 Blue Bird Road, Falls of Rough (Grayson County), Kentucky 40119

Latitude N 37° 35' 46.17" Longitude W 86° 29' 26.44"

Delta Oaks Group Project GEO24-21158-08

Revision 2

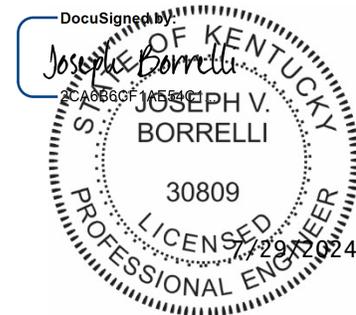
geotech@deltaoaksgroup.com

Performed By:

Sarah C. Russek, P.E.

Reviewed By:

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





DELTA OAKS GROUP

INTRODUCTION

This geotechnical investigation report has been completed for the proposed 108-foot monopole tower located at 2589 Blue Bird Road in Falls of Rough (Grayson County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located on a residential property in a grass and dirt-covered area adjacent to a tree line. The house previously existing at the proposed tower location has been demolished. Topography is generally flat across the tower compound but is gradually sloping across the subject property. Generally, topography slopes downward towards Blue Bird Road.

REFERENCES

- Project Information, provided by LCS Wireless via email
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the termination depth of 15.5 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Upon encountering auger refusal, 10.0 feet of rock coring was conducted in accordance with ASTM D 2113. Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

A boring plan portraying the spatial location of the boring in relation to the immediate surrounding area can be found in the Appendix.



DELTA OAKS GROUP

SUBSURFACE CONDITION SUMMARY

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

FILL

Fill material was not encountered during the subsurface field investigation.

SOIL

The residual soil encountered in the subsurface field investigation began at the existing ground surface in the boring and consisted of fat clay and sandy silt. The materials ranged from a medium stiff to hard consistency. Some of the soils which form the bearing stratum for foundations are plastic materials exhibiting high potential for shrink-swell movements with change in moisture.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 15.5 feet bgs.

ROCK

Rock was encountered during the subsurface investigation at a depth of 15.5 feet bgs. The rock can be described as highly fractured, highly weathered, soft shale with intermittent sandy lean clay and weathered limestone seams.

SUBSURFACE WATER

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

FROST PENETRATION

The frost penetration depth for Grayson County, Kentucky is 20 inches (1.7 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 1,220 ohms-cm.



DELTA OAKS GROUP

FOUNDATION DESIGN SUMMARY

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

As noted in the previous section, some of the soils which form the bearing stratum for foundations are plastic materials exhibiting high potential for shrink-swell movements with change in moisture. Care should be taken to maintain the natural moisture content of expansive soils during construction. If unable to do so, there is higher potential for shrink-swell movements of these soils under the structure and foundation elements. Supporting the structure on a drilled shaft foundation may reduce the potential for movement.

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 - 3.0	CH	110	0	500
	3.0 - 6.0	CH	120	0	1,600
	6.0 - 8.0	ML	120	0	800
	8.0 - 13.0	CH	120	0	1,200
	13.0 - 15.5	CH	125	0	4,000
	15.5 - 25.5	Shale	140	0	4,500

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



DELTA OAKS GROUP

SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.0	3,450
		4.0	7,360
		5.0	6,150
		6.0	6,120
	10.0 x 10.0	3.0	3,270
		4.0	6,150
		5.0	5,540
		6.0	5,530
	15.0 x 15.0	3.0	3,210
		4.0	5,740
		5.0	5,340
		6.0	5,330
	20.0 x 20.0	3.0	3,180
		4.0	5,540
		5.0	5,230
		6.0	5,230
	25.0 x 25.0	3.0	3,160
		4.0	5,420
		5.0	5,170
		6.0	5,170

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 1.7 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



DELTA OAKS GROUP

ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	110	0	500	0.00	1.00	500.00
Bottom	1.7	110	0	500	187.00	1.00	593.50
Top	1.7	110	0	500	187.00	1.00	1187.00
Bottom	3.0	110	0	500	330.00	1.00	1330.00
Top	3.0	120	0	1,600	330.00	1.00	3530.00
Bottom	6.0	120	0	1,600	690.00	1.00	3890.00
Top	6.0	120	0	800	690.00	1.00	2290.00
Bottom	8.0	120	0	800	930.00	1.00	2530.00
Top	8.0	120	0	1,200	930.00	1.00	3330.00
Bottom	10.0	120	0	1,200	1170.00	1.00	3570.00



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SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 - 3.0	--	--	--
	3.0 - 6.0	9,640	880	880
	6.0 - 8.0	18,550	440	440
	8.0 - 13.0	28,840	660	660
	13.0 - 15.5	39,860	2,040	2,040
	15.5 - 25.5	39,930	2,190	2,190

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



DELTA OAKS GROUP

CONSTRUCTION

SITE DEVELOPMENT

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

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

STRUCTURAL FILL PLACEMENT

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

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

SHALLOW FOUNDATIONS

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



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DRILLED SHAFT FOUNDATIONS

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

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

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

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



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QUALIFICATIONS

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

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

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

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



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APPENDIX



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BORING PLAN





PROJECT NAME TI-OPP-17878 (15346957)
PROJECT NUMBER GEO24-21158-08
PROJECT LOCATION Falls of Rough, Kentucky

CLIENT LCS Wireless

Boring No.: B-1

DATE DRILLED : 4/10/2024
DRILLING METHOD : Hollow Stem Auger & Rock Coring
GROUND ELEVATION :
BORING DEPTH (ft) : 25.5

GROUND WATER LEVELS:
AT TIME OF DRILLING : --- Not encountered
AT END OF DRILLING : --- N/A
AFTER DRILLING : --- Not measured

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE	MATERIAL CLASSIFICATION	Pocket Penetrometer (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE	▲ SPT N VALUE ▲													
									10	20	30	40	50	60	70	80	90					
0	Medium stiff, tan, gray, orange-brown, FAT CLAY (CH), trace gravel, moist		CH		1	2	3	5														
5	-- Very stiff, gray, tan, black, trace roots								5	7	9	16										
	Stiff, brown, fine to coarse grained, sandy SILT (ML), moist								4	5	3	8										
10	Stiff, tan, gray, brown, FAT CLAY (CH), trace sand, moist								4	5	7	12										
15	-- Hard				4	16	29	45														
20	Gray, brown, red-brown, highly fractured, highly weathered, soft, SHALE, with intermittent sandy lean clay and weathered limestone seams								REC = 45.0 %	RQD = 0%												
25					REC = 68.3 %	RQD = 0%																
Refusal at 15.5 feet. Bottom of borehole at 25.5 feet.																						

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 130 E. Market Street, Leitchfield, KY 42754, head west on E Market Street and travel approximately 440 feet.
2. Turn right at the 2nd cross street onto S Main Street and travel approximately 446 feet.
3. At the Public Square, take the 3rd exit onto West Main Street and travel approximately 1.0 miles.
4. Continue onto KY-54 W / Owensboro Road and travel approximately 10.0 miles.
5. Turn right onto KY-79 N and travel approximately 5.8 miles.
6. Turn right on KY-110 / Blue Bird Road and travel approximately 0.4 miles.
7. Turn right to stay on KY-110 / Blue Bird Road and travel approximately 0.9 miles.
8. Turn left to stay on KY-110 / Blue Bird Road and travel approximately 1.3 miles.
9. The site is located on the right at 2589 Blue Bird Road, Falls of Rough, KY 40119.
10. The site coordinates are:
 - a. North 37 deg 35 min 46.17 sec
 - b. West 86 deg 29 min 26.44 sec



Prepared by:
Aaron L. Roof
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: Northeast/TNKY
Cell Site Number: _____
Cell Site Name: _____
Search Ring Name: Falling Branch
Fixed Asset Number: 15346957

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 Terry L. Newton and Kimberly D. Newton, a married couple, having a mailing address of 2589 Blue Bird Road, Falls of Rough, Kentucky 40119 (“**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 2589 Blue Bird Road, in the County of Grayson, 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 100’ x 100’ parcel of property including the air space above such ground space, 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, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant’s sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord’s title to the Property and the feasibility or suitability of the Property for Tenant’s Permitted Use, all at Tenant’s expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant’s inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and loss by casualty or other causes beyond Tenant’s control excepted.

(c) In consideration of Landlord granting Tenant the Options contained in this Agreement, Tenant agrees to pay Landlord the sum of [REDACTED] Dollars [REDACTED] within thirty (30) business days after the Effective Date. The Option may be exercised during an initial term of [REDACTED] 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 [REDACTED] (the “**Renewal Option Term**”). Tenant shall pay Landlord an additional [REDACTED] Dollars [REDACTED] within thirty (30) business days after to 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.

(e) During the Option Term, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option, then Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, 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 or any of Landlord's contiguous, adjoining or surrounding 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 Premises, the Property or 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. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and 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; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "**Permitted Use**"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 1** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 1** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 1**. For a period of 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, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes 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. In the event Tenant desires to modify or upgrade the Communication Facility, in a manner that requires an additional portion of the Property (the "**Additional Premises**") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then-current per square foot rental rate charged by Landlord to Tenant times the square footage of the Additional Premises. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

3. **TERM.**

(a) The initial lease term will be five (5) years (the "**Initial Term**"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "**Term Commencement Date**"). The Initial Term will terminate on the fifth (5th) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for seventeen (17) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or the then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("**Annual Term**") until terminated by either party hereto by giving to the other party hereto written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

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

4. **RENT.**

(a) Commencing on the first day of the 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] Dollars [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.

(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 foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

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 termination fee equal to [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 single limit of [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.

9. **INDEMNIFICATION.**

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

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

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section 9 and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

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, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) 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 hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, 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, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party, 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, its 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 shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 4**, and upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. 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. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, [REDACTED] per day in consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenantable condition, subject to

reasonable wear and tear and damage from the elements. Landlord will be responsible for maintenance of landscaping on the Property, including any landscaping installed by Tenant as a condition of this Agreement or any required permit.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to sub-meter from Landlord. When sub-metering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Tenant shall reimburse Landlord for such utility usage at the same rate charged to Landlord by the utility service provider. Landlord further agrees to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within sixty (60) days of receipt of the usage data and required forms. Landlord shall maintain accurate and detailed records of all utility expenses, invoices and payments applicable to Tenant's reimbursement obligations hereunder. Within fifteen (15) days after a request from Tenant, Landlord shall provide copies of such utility billing records to the Tenant in the form of copies of invoices, contracts and cancelled checks. If the utility billing records reflect an overpayment by Tenant, Tenant shall have the right to deduct the amount of such overpayment from any monies due to Landlord from Tenant.

(c) As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(d) Tenant will have the right to install utilities, at Tenant's expense, and to improve present utilities on the Property and the Premises. Landlord hereby grants to 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. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to

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

16. 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. Landlord shall have the right to assign or otherwise transfer all or a portion of this Agreement and Easement granted herein, upon written notice to Tenant except for the following; any assignment or transfer in whole or part of this Agreement which is separate and distinct from a transfer of Landlord's entire right title and interest in the Property, shall require the prior written consent of Tenant which may be withheld in tenant's sole discretion.

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: Terry L. Newton and Kimberly D. Newton
2589 Blue Bird Road
Falls of Rough, Kentucky 40119

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. Tenant will be entitled to reimbursement for any prepaid Rent on a *pro rata* basis.

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 Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to terminate under this Section 19, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility 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) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (i) any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21 and (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

(b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal,

regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

(d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

(e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).

(f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17 and, in addition, a copy of any such notices shall be sent to the below address. Promptly after the Effective Date of this Agreement, Landlord shall provide the following address to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

Tillman Infrastructure LLC
152 W 57th Street
New York, New York 10017
Attn: Network Real Estate Administration--Taxes

(g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY.

(a) Landlord may sell the Property or a portion thereof to a third party, provided: (i) the sale is made subject to the terms of this Agreement; and (ii) if the sale does not include the assignment of Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.

(b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or 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. Old deed to Property
- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Copy of current Tax Bill
- v. New IRS Form W-9
- vi. Completed and Signed Tenant Payment Direction Form

vii. Full contact information for new Landlord including phone number(s)

(c) Landlord agrees not to sell, lease or use any areas of the Property or 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. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communication facility or equipment.

(d) The provisions of this Section 22 shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. **RIGHT OF FIRST REFUSAL.** Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments associated with this Agreement or an offer to purchase an easement with respect to the Premises ("**Offer**"), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the financial terms of the Offer and agree in writing to match such terms of the Offer 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 Lease 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 5**. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease.

(c) **Limitation of Liability.** Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

(d) **Compliance with Law.** Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations (“**Laws**”) applicable to Tenant’s use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord’s ownership and use of the Property and any improvements on the Property.

(e) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(f) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

(g) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(h) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term “including” will be interpreted to mean “including but not limited to”; (iii) whenever a party’s consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms “termination” or “expiration” are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate; and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

(i) **Affiliates.** All references to “Tenant” shall be deemed to include any Affiliate of 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”

Tiffany Chaffins
Name: Tiffany Chaffins
Alexis Reynolds
Name: Alexis Reynolds

Tiffany Chaffins
Name: Tiffany Chaffins
Alexis Reynolds
Name: Alexis Reynolds

“LANDLORD”

TERRY L. NEWTON and KIMBERLY D. NEWTON, a married couple

By: Terry L. Newton
Print Name: Terry L. Newton
Date: 2-19-21

By: Kimberly D. Newton
Print Name: Kimberly D. Newton
Date: 02/19/21

LANDLORD ACKNOWLEDGMENTS

STATE OF KENTUCKY)
) ss:
COUNTY OF GRAYSON)

BE IT REMEMBERED, that on this 19 day of February, 2021 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared **Terry L. Newton**, who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.

Jonathan Caswell
Notary Public: Jonathan Caswell #610834
My Commission Expires: 10-19-2022

STATE OF KENTUCKY)
) ss:
COUNTY OF GRAYSON)

BE IT REMEMBERED, that on this 19 day of February, 2021 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared **Kimberly D. Newton**, who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.

Jonathan Caswell
Notary Public: Jonathan Caswell #610834
My Commission Expires: 10-19-2022

Exhibit 1

Description of the Premises & Access and Utility Easements:

Page 1 of 2

to the Option and Lease Agreement dated March 19, 2021, by and between Terry L. Newton and Kimberly D. Newton, a married couple, as Landlord, and Tillman Infrastructure LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

Certain tract or parcel of land lying on or being near the waters of Rough Creek, in Grayson County, Kentucky, and being more fully described as follows:

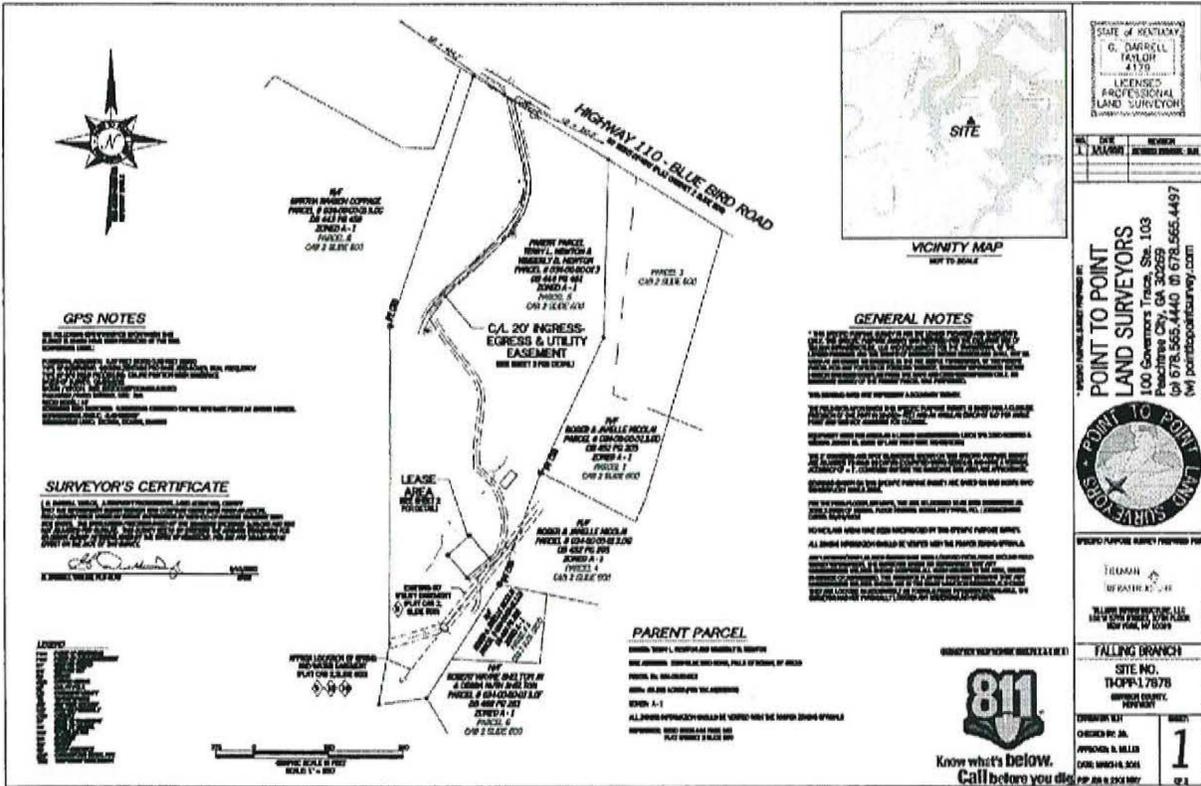
Being PARCEL NUMBER 5 (22.555 acres) of THE KENNETH AND MYRNA FENTRESS FARM DIVISION, as shown by plat completed September 28, 2015, appearing of record in Plat Cabinet 2, Slide 600, records of the Grayson County Clerk's Office.

BEING SUBJECT TO AN EASEMENT granted to the owners of Parcels # 1, #2 and #6 for the use water from the spring located subject property together with the 30' utility easement designated on Plat appearing in Plat Cabinet 2, Slide 600. as "water line easement leading from spring to house and barn".

Being a new survey description of a portion of that property conveyed to Frances Edwards and Beverly Razor by deed from Myrna Frances Fentress, a widow and single person, dated April 29, 2008, appearing in Deed Book 382, Page 440, records of the Grayson County Clerk.

Being the same property conveyed to Terry L. Newton and Kimberly D. Newton, his wife from Frances Edwards and Joseph Eugene Edwards, her husband by deed dated December 11, 2015 and recorded on December 23, 2015, in Deed Book 444, Page 461.

The Premises are described and/or depicted as follows:



Notes:

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

Prepared by:
Tillman Infrastructure LLC
299 Market Street, Suite 350
Saddle Brook, NJ 07663

TI-OPP Number: TI-OPP-17878
Fixed Asset Number: 15346957

**FIRST AMENDMENT TO AND RESTATEMENT OF
OPTION AND LEASE AGREEMENT**

THIS FIRST AMENDMENT TO AND RESTATEMENT OF OPTION AND LEASE AGREEMENT ("Amendment") is executed this 30th day of March, 2023 ("Effective Date") by and between Terry L. Newton and Kimberly D. Newton a married couple, having a mailing address of 2589 Blue Bird Road, Falls of Rough, Kentucky 40119 ("Landlord") and Tillman Infrastructure LLC, a Delaware limited liability company, having an address at 152 West 57th Street, New York, New York 10019 ("Tenant").

WHEREAS, Landlord and Tenant entered into that certain Option and Lease Agreement, dated March 19, 2021 ("Agreement") whereby Landlord leased to Tenant a portion of the real property (hereinafter referred to as "Premises") located at 2589 Blue Bird Road, Falls of Rough, Kentucky 40119 ("Property"), being more particularly described in the attached Exhibit "A"; and

WHEREAS, Landlord and Tenant desire and intend to amend, supplement and ratify the Agreement in order to extend the "Option Term" as provided herein.

NOW, THEREFORE, in consideration of the mutual covenants and agreement herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto covenant, agree and bind themselves to the following modifications to the Agreement:

1. **Amendment to Agreement.** Section 1(g) is added to the Agreement and states the following:

In consideration of Landlord granting Tenant an additional one (1) year Renewal Option Term commencing on March 19, 2023, to exercise its Option under the Agreement, Tenant agrees to pay the sum of [REDACTED] within thirty (30) days of the execution of this Amendment. All other terms and conditions of the Agreement shall remain in full force and effect.

2. Capitalized terms not defined in this Amendment will have the meaning ascribed to such terms in the Agreement.

3. This Amendment will be governed by and construed and enforced in accordance with the laws of the state in which the Property is located without regard to principles of conflicts of law.

4. Except as specifically set forth in this Amendment, the Agreement is otherwise unmodified and remains in full force and effect and is hereby ratified and reaffirmed. In the event of any inconsistencies between the Agreement and this Amendment, the terms of this Amendment shall take precedence.

5. Landlord represents and warrants to Tenant that the Landlord is the sole owner in fee simple title to the Premises and easements and the Landlord's interest under the Agreement and that consent or approval of no other person is necessary for the Landlord to enter into this Amendment.

6. The Recitals set forth above are incorporated into and are made a part of this Amendment.

7. The parties acknowledge and agree that this Amendment 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.

8. This Amendment may be executed in one or more counterparts, and by the different parties hereto in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same Amendment.

[The remainder of this page is intentionally left blank. Signatures to follow.]

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

“LANDLORD”


Terry L. Newton
Date: 3-28-23


Kimberly D. Newton
Date: 3-28-23

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

“TENANT”

TILLMAN INFRASTRUCTURE LLC,
a Delaware limited liability company

By: 
Name: Chris Mularacelis
Its: VT Legal
Date: 3/30/2023

Exhibit A
Page 1 of 3

Legal Description of the Property

The Property is legally described as follows:

Certain tract or parcel of land lying on or being near the waters of Rough Creek, in Grayson County, Kentucky, and being more fully described as follows:

Being PARCEL NUMBER 5 (22.555 acres) of THE KENNETH AND MYRNA FENTRESS FARM DIVISION, as shown by plat completed September 28, 2015, appearing of record in Plat Cabinet 2, Slide 600, records of the Grayson County Clerk's Office.

BEING SUBJECT TO AN EASEMENT granted to the owners of Parcels # 1, #2 and #6 for the use water from the spring located subject property together with the 30' utility easement designated on Plat appearing in Plat Cabinet 2, Slide 600, as "water line easement leading from spring to house and barn".

Being a new survey description of a portion of that property conveyed to Frances Edwards and Beverly Razor by deed from Myrna Frances Fentress, a widow and single person, dated April 29, 2008, appearing in Deed Book 382, Page 440, records of the Grayson County Clerk.

Being the same property conveyed to Terry L. Newton and Kimberly D. Newton, his wife from Frances Edwards and Joseph Eugene Edwards, her husband by deed dated December 11, 2015 and recorded on December 23, 2015, in Deed Book 444, Page 461.

Exhibit A
Page 2 of 3

The Premises is Legally described as follows:

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN GRAYSON COUNTY, KENTUCKY, AND BEING PARCEL 5 OF THE KENNETH AND MYRNA FENTRESS FARM DIVISION AS RECORDED IN PLAT CABINET 2, SLIDE 600, GRAYSON COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE, AT A CAPPED REBAR FOUND AT THE SOUTHWEST CORNER OF PARCEL 4 OF SAID FENTRESS FARM DIVISION, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3741592.1307 E:4706927.3185, AND FOUND BEARING SOUTH 20°30'32" WEST, 398.19' FEET FROM A CAPPED REBAR, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3741965.1674 E:4707066.8804; THENCE RUNNING ALONG A TIE-LINE, NORTH 81°53'45" WEST, 103.88 FEET TO A POINT; THENCE ALONG A TIE-LINE, NORTH 40°32'19" WEST, 10.00 FEET TO A POINT, AND THE TRUE POINT OF BEGINNING; THENCE RUNNING, NORTH 40°32'19" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 49°27'41" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 40°32'19" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 49°27'41" WEST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

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

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

Exhibit A
Page 3 of 3

The Access and Utility Easement is described as follows:

TOGETHER WITH A 20-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 10 FEET EACH SIDE OF CENTERLINE), LYING AND BEING IN GRAYSON COUNTY, KENTUCKY, AND BEING PARCEL 5 OF THE KENNETH AND MYRNA FENTRESS FARM DIVISION AS RECORDED IN PLAT CABINET 2, SLIDE 600, GRAYSON COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE, AT A CAPPED REBAR FOUND AT THE SOUTHWEST CORNER OF PARCEL 4 OF SAID FENTRESS FARM DIVISION, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3741592.1307 E:4706927.3185, AND FOUND BEARING SOUTH 20°30'32" WEST, 398.19' FEET FROM A CAPPED REBAR, SAID REBAR HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N:3741965.1674 E:4707066.8804; THENCE RUNNING ALONG A TIE-LINE, NORTH 81°53'45" WEST, 103.88 FEET TO A POINT, AND THE TRUE POINT OF BEGINNING; THENCE RUNNING, NORTH 49°27'41" EAST, 126.78 FEET TO A POINT; THENCE, 245.50 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 250.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 02°53'31" WEST, 235.76 FEET TO A POINT; THENCE, NORTH 43°47'18" WEST, 80.38 FEET TO A POINT; THENCE, NORTH 02°09'59" WEST, 61.82 FEET TO A POINT; THENCE, NORTH 06°59'54" EAST, 141.45 FEET TO A POINT; THENCE, 118.09 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 142.72 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 15°01'44" WEST, 114.75 FEET TO A POINT; THENCE, NORTH 39°01'56" WEST, 144.84 FEET TO A POINT; THENCE, NORTH 30°50'14" WEST, 97.94 FEET TO A POINT ON AN EXISTING GRAVEL DRIVE; THENCE RUNNING ALONG THE CENTERLINE OF SAID GRAVEL DRIVE, NORTH 35°53'34" EAST, 90.42 FEET TO A POINT; THENCE, NORTH 48°44'29" EAST, 128.49 FEET TO A POINT; THENCE, NORTH 45°12'05" EAST, 145.27 FEET TO A POINT; THENCE, 250.85 FEET ALONG THE ARC OF A CURVE TO THE LEFT, HAVING A RADIUS OF 250.00 FEET AND BEING SCRIBED BY A CHORD BEARING, NORTH 16°27'22" EAST, 240.46 FEET TO A POINT; THENCE, NORTH 12°17'20" WEST, 225.46 FEET TO THE ENDING AT A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF HIGHWAY 110/ BLUE BIRD ROAD (HAVING A 60-FOOT RIGHT-OF-WAY).

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

Prepared by:
Tillman Infrastructure LLC
152 West 57th Street
New York, New York 10019

TI-OPP Number: TI-OPP-17878
Fixed Asset Number: 15346957

SECOND AMENDMENT TO AND RESTATEMENT OF OPTION AND LEASE AGREEMENT

THIS SECOND AMENDMENT TO AND RESTATEMENT OF OPTION AND LEASE AGREEMENT ("Amendment") is executed this 17 day of July, 2024 ("Effective Date") by and between Terry L. Newton and Kimberly D. Newton a married couple, having a mailing address of 2589 Blue Bird Road, Falls of Rough, Kentucky 40119 ("Landlord") and Tillman Infrastructure LLC, a Delaware limited liability company, having an address at 152 West 57th Street, New York, New York 10019 ("Tenant").

WHEREAS, Landlord and Tenant entered into that certain Option and Lease Agreement, dated March 19, 2021, and First Amendment to and Restatement of Option and Lease Agreement dated March 30, 2023 (jointly, the "Agreement") whereby Landlord leased to Tenant a portion of the real property (hereinafter referred to as "Premises") located at 2589 Blue Bird Road, Falls of Rough, Kentucky 40119 ("Property"); and

WHEREAS, Landlord and Tenant desire and intend to amend, supplement and ratify the Agreement in order to extend the "Option Term" as provided herein, and desire to amend the Agreement to reflect the relocation of the Premises and easement for access and utilities located at the Property.

NOW, THEREFORE, in consideration of the mutual covenants and agreement herein contained and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto covenant, agree and bind themselves to the following modifications to the Agreement:

1. Amendment to Section 1 of the Agreement:

- a. Section 1(a) of the Agreement is hereby deleted, and the following is inserted in its place:

Landlord grants to Tenant an exclusive option (the "Option") to lease a certain portion of the property consisting of a 50' x 50' parcel of property including the air space above such ground space, as described on attached Exhibit 1, (the "Premises"), for the placement of a Communication Facility in accordance with the terms of this Agreement.

- b. Section 1(h) is added to the Agreement and states the following:

In consideration of Landlord granting Tenant an additional one (1) year Renewal Option Term commencing on March 19, 2024, to exercise its Option under the Agreement, Tenant agrees to pay the sum of [REDACTED] within thirty (30) days of the execution of this Amendment.

2. **Amendment to Exhibit 1 of the Agreement.** Exhibit 1 to the Agreement is deleted in its entirety and Exhibit 1 attached hereto and made a part hereof is hereby inserted as Exhibit 1 to the Agreement in lieu thereof. All references in the Agreement to Exhibit 1 shall now mean and refer to Exhibit 1 attached to this Amendment.
3. Capitalized terms not defined in this Amendment will have the meaning ascribed to such terms in the Agreement.
4. This Amendment will be governed by and construed and enforced in accordance with the laws of the state in which the Property is located without regard to principles of conflicts of law.
5. Except as specifically set forth in this Amendment, the Agreement is otherwise unmodified and remains in full force and effect and is hereby ratified and reaffirmed. In the event of any inconsistencies between the Agreement and this Amendment, the terms of this Amendment shall take precedence.
6. Landlord represents and warrants to Tenant that the Landlord is the sole owner in fee simple title to the Premises and easements and the Landlord's interest under the Agreement and that consent or approval of no other person is necessary for the Landlord to enter into this Amendment.
7. The Recitals set forth above are incorporated into and are made a part of this Amendment.
8. The parties acknowledge and agree that this Amendment 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.
9. This Amendment may be executed in one or more counterparts, and by the different parties hereto in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same Amendment.

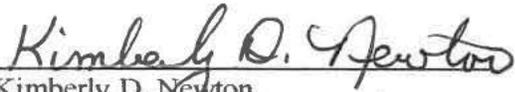
[The remainder of this page is intentionally left blank. Signatures to follow.]

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

“LANDLORD”



Terry L. Newton
Date: 7-8-2024



Kimberly D. Newton
Date: 07/08/2024

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

“TENANT”

TILLMAN INFRASTRUCTURE LLC,
a Delaware limited liability company

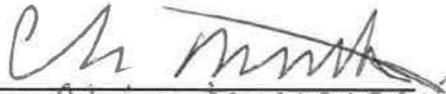
By: 
Name: Chris MULARDEN
Its: Authorized Signature
Date: 7/17/2024

Exhibit 1
Page 1 of 2

Legal Description of the Property

The Property is legally described as follows:

Certain tract or parcel of land lying on or being near the waters of Rough Creek, in Grayson County, Kentucky, and being more fully described as follows:

Being PARCEL NUMBER 5 (22.555 acres) of THE KENNETH AND MYRNA FENTRESS FARM DIVISION, as shown by plat completed September 28, 2015, appearing of record in Plat Cabinet 2, Slide 600, records of the Grayson County Clerk's Office.

BEING SUBJECT TO AN EASEMENT granted to the owners of Parcels # 1, #2 and #6 for the use water from the spring located subject property together with the 30' utility easement designated on Plat appearing in Plat Cabinet 2, Slide 600. as "water line easement leading from spring to house and barn".

Being a new survey description of a portion of that property conveyed to Frances Edwards and Beverly Razor by deed from Myrna Frances Fentress, a widow and single person, dated April 29, 2008, appearing in Deed Book 382, Page 440, records of the Grayson County Clerk.

Being the same property conveyed to Terry L. Newton and Kimberly D. Newton, his wife from Frances Edwards and Joseph Eugene Edwards, her husband by deed dated December 11, 2015 and recorded on December 23, 2015, in Deed Book 444, Page 461.

The Premises is described as follows:

All that tract or parcel of land lying and being in Grayson County, Kentucky, and being a portion of the lands of Terry L. Newton and Kimberly D. Newton, as recorded in Deed Book 444, Page 461, being Parcel 5 of the Kenneth and Myrna Fentress Farm Division as recorded in Plat Cabinet 2, Slide 600, Grayson County records, and being more particularly described as follows:

To find the point of beginning, COMMENCE, at a capped rebar found at the southwest corner of Parcel 4 of said Fentress Farm Division, said rebar having a Kentucky Grid North, NAD 83, Single Zone value of N:3741592.1307 E:4706927.3185, and found bearing South 20°30'32" West, 398.19' feet from a capped rebar, said rebar having a Kentucky Grid North, NAD83, Single Zone value of N:3741965.1674 E:4707066.8804; thence running along a tie line, South 64°15'15" West, 252.60 feet to a point and the true POINT OF BEGINNING; Thence, South 73°19'13" West, 50.00 feet to a point; Thence, North 16°40'47" West, 50.00 feet to a point; Thence, North 73°19'13" East, 50.00 feet to a point; Thence, South 16°40'47" East, 50.00 feet to a point and the POINT OF BEGINNING.

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

Said tract contains 0.0574 acres (2,500 square feet), more or less, as shown in a survey prepared for Tillman Infrastructure, LLC by POINT TO POINT LAND SURVEYORS, INC. dated October 4, 2023, and last revised on April 3, 2024.

Exhibit 1
Page 2 of 2

The Access and Utility Easement is described as follows:

Together with a 20-foot wide Ingress-Egress and Utility Easement, measuring 10 feet each side of centerline, lying and being in Grayson County, Kentucky, and being a portion of the lands of Terry L. Newton and Kimberly D. Newton, as recorded in Deed Book 444, Page 461, being Parcel 5 of the Kenneth and Myrna Fentress Farm Division as recorded in Plat Cabinet 2, Slide 600, Grayson County records, and being more particularly described by the following centerline data:

To find the point of beginning, COMMENCE, at a capped rebar found at the southwest corner of Parcel 4 of said Fentress Farm Division, said rebar having a Kentucky Grid North, NAD 83, Single Zone value of N:3741592.1307 E:4706927.3185, and found bearing South 20°30'32" West, 398.19' feet from a capped rebar, said rebar having a Kentucky Grid North, NAD83, Single Zone value of N:3741965.1674 E:4707066.8804; thence running along a tie line, South 64°15'15" West, 252.60 feet to a point on the Lease Area; thence running along said Lease Area, South 73°19'13" West, 50.00 feet to a point; thence, North 16°40'47" West, 50.00 feet to a point; Thence, North 73°19'13" East, 50.00 feet to a point; Thence, South 16°40'47" East, 38.46 feet to a point and the true POINT OF BEGINNING; Thence leaving said Lease Area and running, South 84°40'28" East, 100.17 feet to a point; Thence, 51.90 feet along the arc of a curve to the left, having a radius of 50.00 feet and being scribed by a chord bearing, North 65°35'29" East, 49.60 feet to a point; Thence, North 35°51'25" East, 8.89 feet to a point; Thence, 35.90 feet along the arc of a curve to the left, having a radius of 60.00 feet and being scribed by a chord bearing, North 18°42'51" East, 35.37 feet to a point; Thence, 34.03 feet along the arc of a curve to the right, having a radius of 75.00 feet and being scribed by a chord bearing, North 14°34'05" East, 33.73 feet to a point; Thence, North 27°33'54" East, 121.24 feet to a point; Thence, 234.16 feet along the arc of a curve to the left, having a radius of 220.00 feet and being scribed by a chord bearing, North 02°55'35" West, 223.26 feet to a point; Thence, North 33°25'04" West, 68.72 feet to a point; Thence, 81.67 feet along the arc of a curve to the right, having a radius of 115.00 feet and being scribed by a chord bearing, North 13°04'23" West, 79.96 feet to a point; Thence, North 07°16'17" East, 137.52 feet to a point; Thence, 137.97 feet along the arc of a curve to the left, having a radius of 170.00 feet and being scribed by a chord bearing, North 15°58'47" West, 134.22 feet to a point; Thence, North 39°13'51" West, 127.24 feet to a point; Thence, 86.06 feet along the arc of a curve to the right, having a radius of 1000.00 feet and being scribed by a chord bearing, North 36°45'55" West, 86.03 feet to a point; Thence, 23.13 feet along the arc of a curve to the right, having a radius of 20.00 feet and being scribed by a chord bearing, North 01°10'15" West, 21.86 feet to a point; Thence, 152.41 feet along the arc of a curve to the right, having a radius of 490.00 feet and being scribed by a chord bearing, North 40°52'09" East, 151.79 feet to a point; Thence, North 49°46'47" East, 39.51 feet to a point; Thence, 222.90 feet along the arc of a curve to the left, having a radius of 900.00 feet and being scribed by a chord bearing, North 42°41'05" East, 222.33 feet to a point; Thence, North 35°35'22" East, 11.82 feet to a point; Thence, 171.17 feet along the arc of a curve to the left, having a radius of 200.00 feet and being scribed by a chord bearing, North 11°04'18" East, 165.99 feet to a point; Thence, North 13°26'47" West, 236.95 feet to the ENDING at a point on the southerly right-of-way line of Highway No. 110 (a.k.a. Blue Bird Road, having a 60-foot public right-of-way).

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

As shown in a survey prepared for Tillman Infrastructure, LLC by POINT TO POINT LAND SURVEYORS, INC. dated October 4, 2023, and last revised on April 3, 2024.

EXHIBIT J

**NOTIFICATION LISTING
PVA RECORDS
PROOF OF NOTICE**

FALLING BRANCH – NOTICE LIST

034-00-00-013

Newton Terry L & Kimberly D
2589 Bluebird Rd
Falls of Rough, KY 40119

034-00-00-013.0D & 034-00-00-013.0G & 034-00-00-013.0J

Nicolai Roger & Janelle
2663 Blue Bird Rd
Falls of Rough, KY 40119

034-00-00-013.0F

Shelton Robert Wayne Jr & Debra R
362 Cherry Hill Parkway
Mt Washington, KY 40047

034-00-00-013.0C

Coppage Martha Raasch
187 Chipmunk Ln
Falls of Rough, KY 40119

FENTRS CS-057

Livers Emily
36 Circle Hill Rd
Falls of Rough, KY 40119

FENTRS CS-058 & FENTRS CS-059

Rito Hannah Rennee & Wheatley Troy
21 Circle Hill Rd
Falls of Rough, KY 40119

FENTRS CS-060 & FENTRS CS-061

Streble Nicholas & Whitney
2878 Weavers Run Rd
West Point, KY 40177

FENTRS CS-062

Thompson Adam & Michels Travis
261 N Skyline Dr
Louisville, KY 40229

LOOK O-000.0X

Fentress George Family LLC
2230 Junction Rd
Falls of Rough, KY 40119

Grayson County, KY PVA

Summary

Parcel Number 034-00-00-013
 Account Number 154738
 Location Address BLUE BIRD RD 2589
 Description 22.555 AC & BLDG & H PARCEL 5
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 09 County
 Rate Per Thousand 9.7900
 (City district rates are the combined rate of city and county.)

[View Map](#)



Owner

Primary Owner
 NEWTON TERRY L & KIMBERLY D
 2589 BLUEBIRD RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	Farm
Block		Electric	No
Acres	22.56	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Secondary
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$18,000	\$18,000	\$18,000	\$18,000	\$11,900	\$11,900
+ Improvement Value	\$219,500	\$219,500	\$219,500	\$219,500	\$5,000	\$5,000
+ Ag Improvement Value	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
= Total Taxable Value	\$257,500	\$257,500	\$257,500	\$257,500	\$36,900	\$36,900
- Exemption Value	(\$46,350)	(\$46,350)	(\$46,350)	(\$40,500)	(\$36,900)	\$0
= Net Taxable Value	\$211,150	\$211,150	\$211,150	\$217,000	\$0	\$36,900
+ Land FCV	\$49,000	\$49,000	\$49,000	\$49,000	\$40,900	\$40,900
+ Improvement FCV	\$219,500	\$219,500	\$219,500	\$219,500	\$5,000	\$5,000
+ Ag Improvement FCV	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
= Total FCV	\$288,500	\$288,500	\$288,500	\$288,500	\$65,900	\$65,900
Exemption	DX	DX	DX	DX	DX	
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

	2023	2022	2021	2020
Tax	\$2,107.16	\$2,042.91	\$0.00	\$384.64

Improvement Information

Building Number	1	Kitchens	0
Description	HOUSE	Dining Rooms	0
Residence Type	Single Family	Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type	None	Bedrooms	2
Year Built	2021	Full Baths	2
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	2,236
Exterior	Frame/Brick	Fireplaces/Water	1/1
Foundation	Poured Concrete	Supplemental Heat	
Construction Type	Wood Frame	Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	Yes
Roof Cover	Comp.Shingles	Heat Source	Electric
Roof Pitch		Heat Type	Forced Air
Basement Type	None	Air Conditioning	Yes
Basement Finish	None	AC/Type	Central
Basement Size	None	Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport	Garage	Sprinklers	No
Garage Size		Porch/Deck	None
Garage Type	Attached	Porch Sq Ft	853
Garage Exterior		Deck Sq Ft	0
Width	0	Concrete Sq Ft	0
Length	0	Farm Bldg Type	
Garage Sq Ft	1200	Value	\$0.00
Pool	None	Driveway	Gravel
Pool Size	0	Fence	0
Tennis Courts	None		

Building Number	2	Kitchens	0
Description	GARAGE	Dining Rooms	0
Residence Type		Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	0
Year Built	2017	Full Baths	0
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	1,800
Exterior	Metal	Fireplaces/Water	0/0
Foundation	Post & Pier	Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	No
Roof Cover	Metal	Heat Source	
Roof Pitch		Heat Type	
Basement Type		Air Conditioning	No
Basement Finish		AC/Type	
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport	Garage	Sprinklers	No
Garage Size		Porch/Deck	
Garage Type	Detached	Porch Sq Ft	600
Garage Exterior		Deck Sq Ft	0
Width	30	Concrete Sq Ft	0
Length	60	Farm Bldg Type	
Garage Sq Ft	0	Value	\$5,000.00
Pool		Driveway	Gravel
Pool Size	0	Fence	0
Tennis Courts			

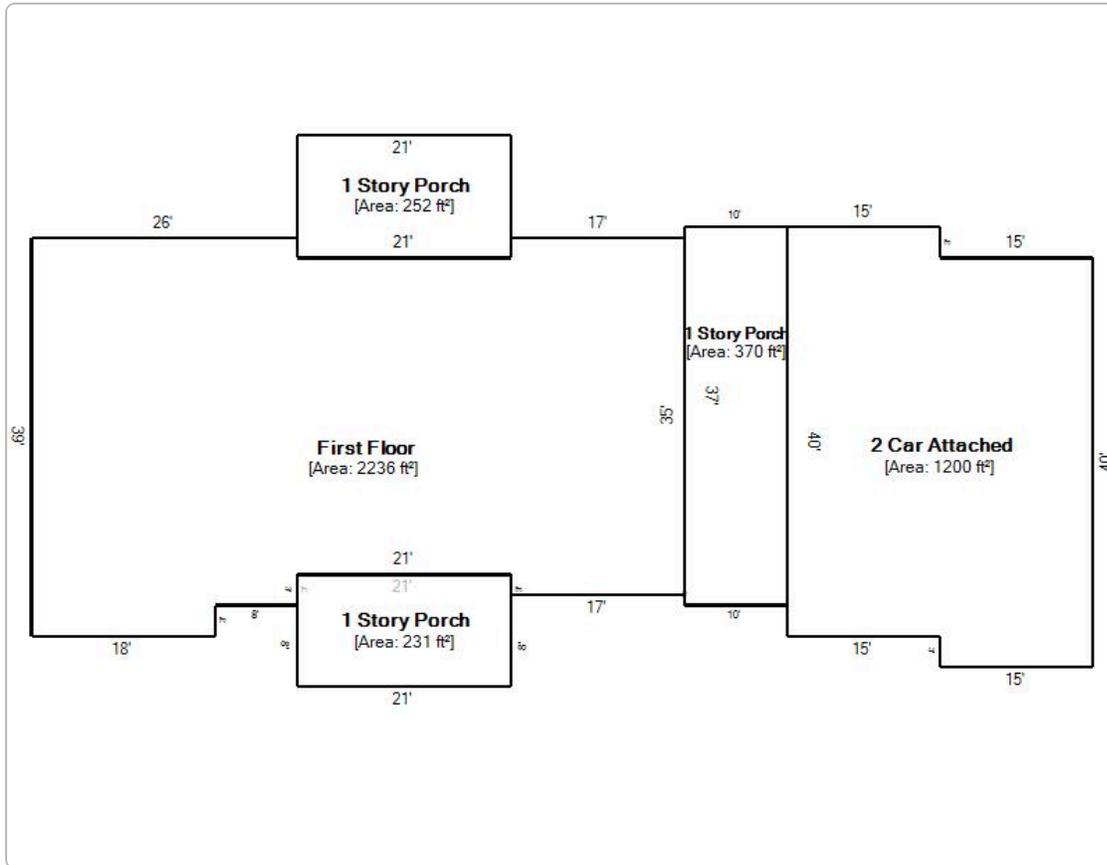
Sale Information

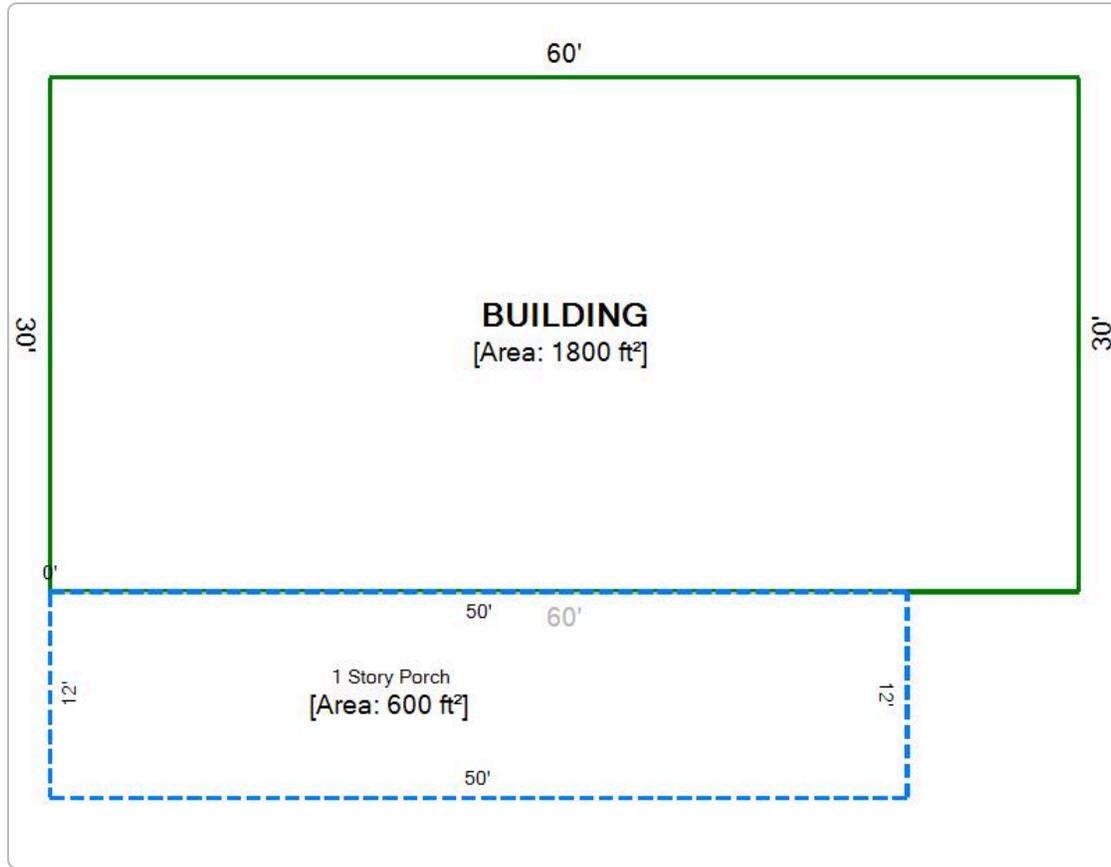
Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
12/11/2015	\$45,899	Partial Sale	444-461	NEWTON TERRY L & KIMBERLY D	EDWARDS FRANCES &
4/1/2008	\$151,335	Arms-Length Transaction	382-440	EDWARDS FRANCES &	FENTRESS MYRNA

Photos



Sketches





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Grayson County, KY PVA

Summary

Parcel Number 034-00-00-013.0D
 Account Number 156190
 Location Address BLUE BIRD RD 2663
 Description 7.976 AC
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 09 County
 Rate Per Thousand 9.7900
 (City district rates are the combined rate of city and county.)

[View Map](#)



Owner

Primary Owner
[NICOLAI ROGER & JANELLE](#)
 2663 BLUE BIRD RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	Residential
Block		Electric	Yes
Acres	7.98	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Secondary
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

Tax	2020
	\$491.95

Improvement Information

Building Number	1	Kitchens	0
Description	HOUSE	Dining Rooms	0
Residence Type	Single Family	Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	3
Year Built	0	Full Baths	2
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	1	Living Sq Ft	1,176
Exterior	Brick Veneer	Fireplaces/Water	1/0
Foundation	Concrete Block	Supplemental Heat	None
Construction Type		Mobile Home Model	
Construction Quality	Average/Standard	Mobile Home Manufacturer	
Building Condition	Good/Average	MH Skirt Foundation	
Roof Type	Hip	Heat	Yes
Roof Cover	Comp.Shingles	Heat Source	Electric
Roof Pitch		Heat Type	Radiant/Wall
Basement Type	Sunken	Air Conditioning	No
Basement Finish	Unfinished	AC/Type	None
Basement Size	Full	Special Improvements	No
Basement Sq Ft	1176	Fire Alarm	No
Garage/Carport	None	Sprinklers	No
Garage Size		Porch/Deck	None
Garage Type		Porch Sq Ft	72
Garage Exterior		Deck Sq Ft	0
Width	28	Concrete Sq Ft	0
Length	42	Farm Bldg Type	
Garage Sq Ft	0	Value	\$0.00
Pool	None	Driveway	Gravel
Pool Size	0	Fence	0
Tennis Courts	None		

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
9/13/2016	\$90,000	Annual Twice-Sold	452-205	NICOLAI ROGER & JANELLE	ESCUE HARVEL & WILDA
11/13/2015	\$72,859	Partial Sale	443-477	ESCUE HARVEL & WILDA	EDWARDS FRANCES &

Photos



Sketches



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Grayson County, KY PVA

Summary

Parcel Number 034-00-00-013.0G
Account Number 156190
Location Address PARADISE ACRES RD 0
Description 28.256 TOT AC & H & B
(Note: Not to be used on legal documents)
Class Farm
Tax District 09 County
Rate Per Thousand 9.7900
(City district rates are the combined rate of city and county.)

[View Map](#)

Owner

Primary Owner
[NICOLAI ROGER & JANELLE](#)
 2663 BLUE BIRD RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision	KENNETH & MYRNA FENTRESS	Flood Hazard	None
Lot	004	Zoning	Farm
Block		Electric	No
Acres	11.53	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Secondary
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$18,671	\$18,671	\$18,671	\$18,671	\$18,671	\$18,671
+ Improvement Value	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000
+ Ag Improvement Value	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
= Total Taxable Value	\$87,671	\$87,671	\$87,671	\$87,671	\$87,671	\$87,671
- Exemption Value	(\$46,350)	(\$46,350)	(\$46,350)	(\$40,500)	(\$40,500)	(\$39,300)
= Net Taxable Value	\$41,321	\$41,321	\$41,321	\$47,171	\$47,171	\$48,371
+ Land FCV	\$93,500	\$93,500	\$93,500	\$93,500	\$93,500	\$93,500
+ Improvement FCV	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000	\$68,000
+ Ag Improvement FCV	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
= Total FCV	\$162,500	\$162,500	\$162,500	\$162,500	\$162,500	\$162,500
Exemption	DX	DX	DX	DX	DX	DX
Farm Acres	28.00	28.00	28.00	28.00	28.00	28.00
Fire Protection Acres	1.00	1.00	1.00	1.00	1.00	1.00

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
9/13/2016	\$40,000	Partial Sale	452-202	NICOLAI ROGER & JANELLE	ARMES JOHN A

No data available for the following modules: Special Assessments, Taxes, Improvement Information, Photos, Sketches.

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Grayson County, KY PVA

Summary

Parcel Number 034-00-00-013.0J
 Account Number 156190
 Location Address BLUE BIRD RD 0
 Description 1.303 AC
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 09 County
 Rate Per Thousand 9.7900
 (City district rates are the combined rate of city and county.)

[View Map](#)



Owner

Primary Owner
[NICOLAI ROGER & JANELLE](#)
 2663 BLUE BIRD RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	Farm
Block		Electric	No
Acres	1.30	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Secondary
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	15.00	15.00	15.00	15.00	15.00	15.00
Fire Protection Acres	7.00	7.00	7.00	7.00	7.00	7.00

Taxes

	2023	2022	2021
Tax	\$444.69	\$475.54	\$479.32

Improvement Information

Building Number	1	Kitchens	0
Description	BARN	Dining Rooms	0
Residence Type		Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	0
Year Built	0	Full Baths	0
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure		Total Rooms	0
Number of Stories	0	Living Sq Ft	0
Exterior	Wood	Fireplaces/Water	0/0
Foundation		Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	No
Roof Cover	Metal	Heat Source	
Roof Pitch		Heat Type	
Basement Type		Air Conditioning	No
Basement Finish		AC/Type	
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport		Sprinklers	No
Garage Size		Porch/Deck	
Garage Type		Porch Sq Ft	0
Garage Exterior		Deck Sq Ft	0
Width	50	Concrete Sq Ft	0
Length	54	Farm Bldg Type	General Barn
Garage Sq Ft	2700	Value	\$0.00
Pool		Driveway	Gravel
Pool Size	0	Fence	0
Tennis Courts			

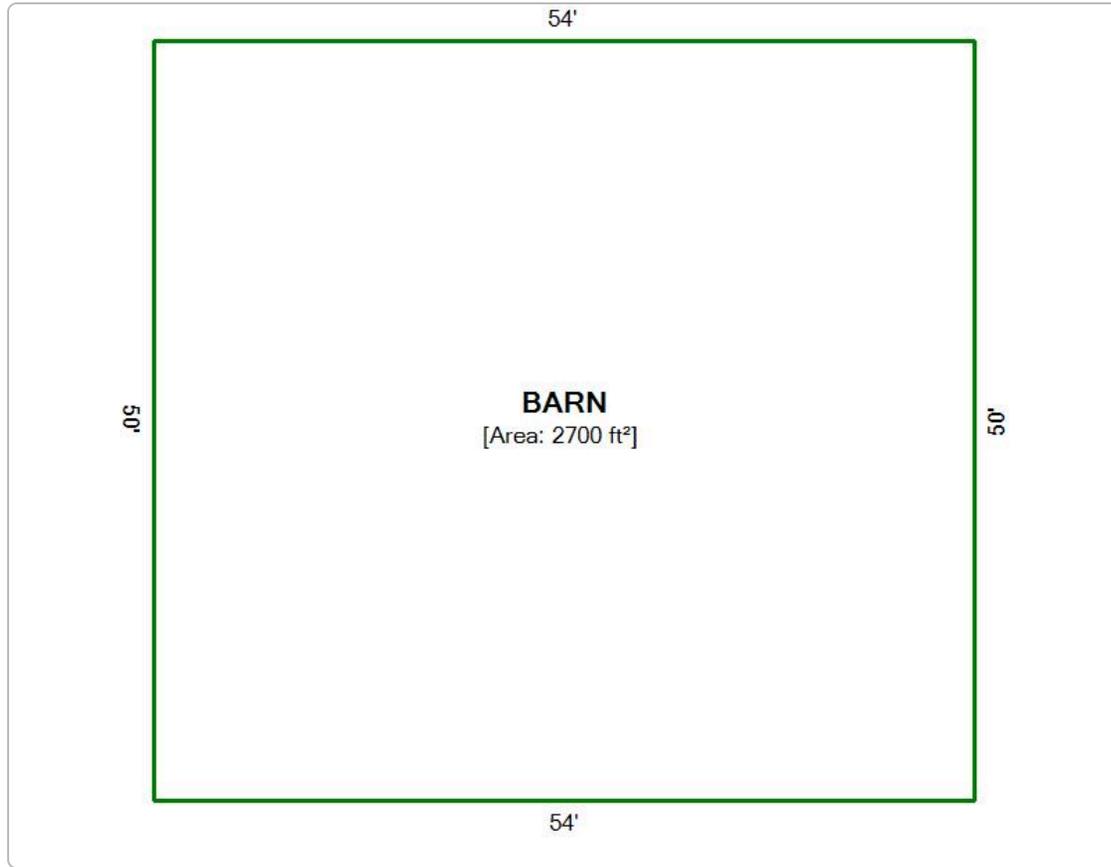
Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
1/10/2018	\$5,500	Partial Sale	466-202	NICOLAI ROGER D & JANELLE J	ARMES JOHN A

Photos



Sketches



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Grayson County, KY PVA

Summary

Parcel Number 034-00-00-013.0F
 Account Number 158417
 Location Address PARADISE ACRES RD 0
 Description 13.937 PARCEL 6
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 09 County
 Rate Per Thousand 9.7900
 (City district rates are the combined rate of city and county.)

[View Map](#)

Owner

Primary Owner
[SHELTON ROBERT WAYNE JR & DEBRA R](#)
 362 CHERRY HILL PARKWAY
 MT WASHINGTON, KY 40047

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	Farm
Block		Electric	No
Acres	13.94	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Secondary
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500	\$8,500
+ Land FCV	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Exemption						
Farm Acres	13.00	13.00	13.00	13.00	13.00	13.00
Fire Protection Acres	7.00	7.00	7.00	7.00	7.00	7.00

Taxes

	2023	2022	2021	2020
Tax	\$123.35	\$118.61	\$119.29	\$119.53

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
4/11/2018	\$40,000	Partial Sale	468-261	SHELTON ROBERT WAYNE JR & DEBRA R	ARMES JOHN A
12/2/2015	\$84,984	Partial Sale	444-062	ARMES JOHN A	EDWARDS FRANCES &

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Grayson County, KY PVA

Summary

Parcel Number 034-00-00-013.0C
 Account Number 154736
 Location Address BLUE BIRD RD 0
 Description 110.6 AC & BLDG PARCEL 8 & 9
 (Note: Not to be used on legal documents)
 Class Farm
 Tax District 09 County
 Rate Per Thousand 9.7900
 (City district rates are the combined rate of city and county.)

[View Map](#)



Owner

Primary Owner
 COPPAGE MARTHA RAASCH
 187 CHIPMUNK LN
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	Farm
Block		Electric	No
Acres	110.61	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Secondary
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$41,500	\$41,500	\$41,500	\$41,500	\$41,500	\$41,500
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000
= Total Taxable Value	\$54,500	\$54,500	\$54,500	\$54,500	\$54,500	\$54,500
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$54,500	\$54,500	\$54,500	\$54,500	\$54,500	\$54,500
+ Land FCV	\$182,501	\$182,501	\$182,501	\$182,501	\$182,501	\$182,501
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000	\$13,000
= Total FCV	\$195,501	\$195,501	\$195,501	\$195,501	\$195,501	\$195,501
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

	2023	2022	2021	2020
Tax	\$573.56	\$543.04	\$547.41	\$549.04

Improvement Information

Building Number	1	Kitchens	0
Description	GARAGE	Dining Rooms	0
Residence Type		Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	0
Year Built	2017	Full Baths	0
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	0
Exterior	Metal	Fireplaces/Water	0/0
Foundation	Post & Pier	Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	No
Roof Cover	Metal	Heat Source	
Roof Pitch		Heat Type	
Basement Type	None	Air Conditioning	No
Basement Finish		AC/Type	
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport	Garage	Sprinklers	No
Garage Size		Porch/Deck	
Garage Type	Detached	Porch Sq Ft	0
Garage Exterior		Deck Sq Ft	0
Width	40	Concrete Sq Ft	0
Length	72	Farm Bldg Type	
Garage Sq Ft	2880	Value	\$0.00
Pool		Driveway	None
Pool Size	0	Fence	0
Tennis Courts			

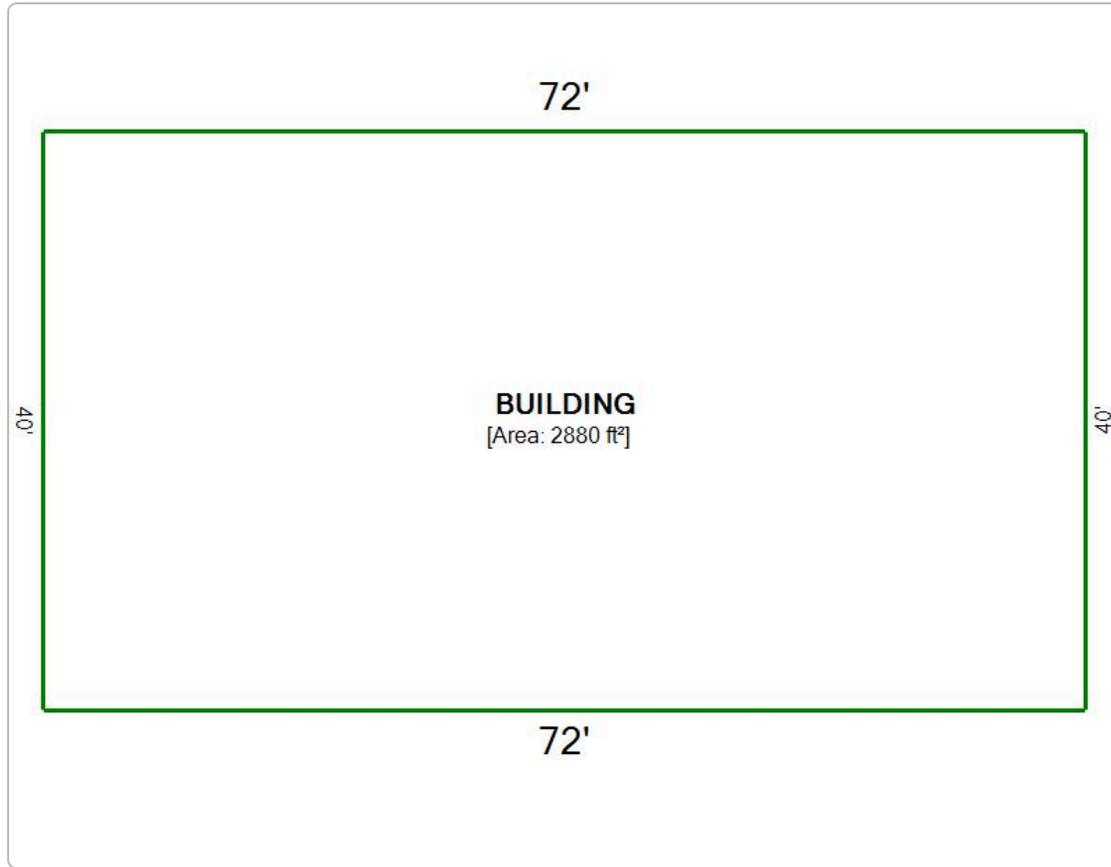
Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
11/13/2015	\$182,501	Partial Sale	443-459	COPPAGE MARTHA RAASCH	EDWARDS FRANCES &

Photos



Sketches



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Grayson County, KY PVA

Summary

Parcel Number	FENTRS CS-057
Account Number	164798
Location Address	CIRCLE HILL RD 0
Description	LOT
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	09 County
Rate Per Thousand	9.7900

(City district rates are the combined rate of city and county.)

[View Map](#)

Owner

Primary Owner
[LIVERS EMILY](#)
 36 CIRCLE HILL RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition	Fair	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision	FENTRESS CAMPSITE	Flood Hazard	None
Lot	057	Zoning	Residential
Block		Electric	No
Acres	0.00	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

	2023	2022	2021
Tax	\$1,875.64	\$584.57	\$589.29

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
2/7/2022	\$187,500	Construction/Destruction	508-638	LIVERS EMILY	EDWARDS CHARLES B & PAULINE S
8/7/2019	\$75,000	Multiple Properties	482-405	EDWARDS CHARLES B & PAULINE S	COATER THOMAS G & JUDY & BRIAN
9/1/2007	\$10,000		391-589	COATER THOMAS C & JUDY & BRIAN	WRIGHT ANNA & LOUIS

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Grayson County, KY PVA

Summary

Parcel Number FENTRS CS-058
Account Number 165913
Location Address CIRCLE HILL RD 21
Description 2 LOTS & BLDG & H
(Note: Not to be used on legal documents)
Class Residential
Tax District 09 County
Rate Per Thousand 9.7900
(City district rates are the combined rate of city and county.)

[View Map](#)



Owner

Primary Owner
[RITO HANNAH RENNEE & WHEATLEY TROY](#)
 21 CIRCLE HILL RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition			Topography	
Plat Book/Page			Drainage	
Subdivision	FENTRESS CAMPSITE		Flood Hazard	
Lot	058		Zoning	
Block			Electric	No
Acres	0.00		Water	No
Front	0		Gas	No
Depth	0		Sewer	No
Lot Size	0x0		Road	
Lot Sq Ft	0		Sidewalks	
Shape			Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$69,900	\$69,900	\$69,900	\$15,000	\$15,000	\$15,000
+ Improvement Value	\$0	\$0	\$0	\$26,000	\$26,000	\$26,000
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$69,900	\$69,900	\$69,900	\$41,000	\$41,000	\$41,000
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$69,900	\$69,900	\$69,900	\$41,000	\$41,000	\$41,000
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

Tax	2020
Tax	\$422.94

Improvement Information

Building Number	1	Kitchens	0
Description	HOUSE	Dining Rooms	0
Residence Type	Seasonal Cottage	Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	1
Year Built	0	Full Baths	2
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	704
Exterior	Concrete Block	Fireplaces/Water	0/1
Foundation	Concrete Block	Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	Yes
Roof Cover	Comp.Shingles	Heat Source	Wood
Roof Pitch		Heat Type	Stove/Space Htr
Basement Type		Air Conditioning	Yes
Basement Finish		AC/Type	Wall Units
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport		Sprinklers	No
Garage Size		Porch/Deck	
Garage Type		Porch Sq Ft	330
Garage Exterior		Deck Sq Ft	0
Width	0	Concrete Sq Ft	0
Length	0	Farm Bldg Type	
Garage Sq Ft	0	Value	\$0.00
Pool		Driveway	
Pool Size	0	Fence	0
Tennis Courts			

Building Number	2	Kitchens	0
Description	SHED	Dining Rooms	0
Residence Type		Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	0
Year Built	0	Full Baths	0
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	0
Exterior	Metal	Fireplaces/Water	0/0
Foundation	Post & Pier	Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type		Heat	No
Roof Cover		Heat Source	
Roof Pitch		Heat Type	
Basement Type		Air Conditioning	No
Basement Finish		AC/Type	
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport		Sprinklers	No
Garage Size		Porch/Deck	
Garage Type		Porch Sq Ft	0
Garage Exterior		Deck Sq Ft	0
Width	10	Concrete Sq Ft	0
Length	16	Farm Bldg Type	
Garage Sq Ft	160	Value	\$0.00
Pool		Driveway	
Pool Size	0	Fence	0
Tennis Courts			

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
8/12/2022	\$69,900	Lake/River Front Prop	514-575	RITO HANNAH RENNEE & WHEATLEY TROY	GRANT RONNIE DEAN & PATRICIA
5/1/1993	\$10,500		235-236	GRANT RONNIE DEAN & PATRICIA	GRANT FRED

Photos



No data available for the following modules: Special Assessments, Sketches.

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Developed by
 Schneider
 GEOSPATIAL

Grayson County, KY PVA

Summary

Parcel Number	FENTRS CS-059
Account Number	165913
Location Address	CIRCLE HILL RD 0
Description	
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	09 County
Rate Per Thousand	9.7900
(City district rates are the combined rate of city and county.)	

[View Map](#)

Owner

Primary Owner
[RITO HANNAH RENNEE & WHEATLEY TROY](#)
 21 CIRCLE HILL RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision	FENTRESS CAMPSITE	Flood Hazard	
Lot	059	Zoning	
Block		Electric	No
Acres	0.00	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

Tax	2023	2022	2021
	\$724.32	\$418.43	\$421.71

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
8/12/2022	\$69,000	Expansion Sale	514-575	RITO HANNAH RENNEE & WHEATLEY TROY	GRANT RONNIE DEAN & PATRICIA
5/1/1993	\$0		235-236	GRANT RONNIE DEAN & PATRICIA	GRANT FRED

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Grayson County, KY PVA

Summary

Parcel Number FENTRS CS-060
Account Number 160852
Location Address BLUE BIRD RD 0
Description 2 LOTS & H & G
(Note: Not to be used on legal documents)
Class Residential
Tax District 09 County
Rate Per Thousand 9.7900
(City district rates are the combined rate of city and county.)

[View Map](#)



Owner

Primary Owner
[STREBLE NICHOLAS & WHITNEY](#)
 2878 WEAVERS RUN RD
 WEST POINT, KY 40177

Land Characteristics

Condition			Topography	
Plat Book/Page			Drainage	
Subdivision	FENTRESS CAMPSITE		Flood Hazard	
Lot	060		Zoning	
Block			Electric	No
Acres	0.00		Water	No
Front	0		Gas	No
Depth	0		Sewer	No
Lot Size	0x0		Road	
Lot Sq Ft	0		Sidewalks	
Shape			Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000	\$56,000
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

Tax	2020
	\$563.04

Improvement Information

Building Number	1	Kitchens	0
Description	Building	Dining Rooms	0
Residence Type		Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	0
Year Built	0	Full Baths	0
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	0
Exterior	Metal	Fireplaces/Water	0/0
Foundation	Post & Pier	Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	No
Roof Cover	Metal	Heat Source	
Roof Pitch		Heat Type	
Basement Type		Air Conditioning	No
Basement Finish		AC/Type	
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport	Garage	Sprinklers	No
Garage Size		Porch/Deck	
Garage Type	Detached	Porch Sq Ft	0
Garage Exterior		Deck Sq Ft	0
Width	16	Concrete Sq Ft	0
Length	24	Farm Bldg Type	
Garage Sq Ft	384	Value	\$33,000.00
Pool		Driveway	
Pool Size	0	Fence	0
Tennis Courts			

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
11/8/2019	\$56,000	Arms-Length Transaction	485-171	STREBLE NICHOLAS & WHITNEY	ZIMMERMAN CONNIE
12/1/2002	\$37,000	Arms-Length Transaction	331-344	ZIMMERMAN CONNIE	WELLS C ANDREW & PATTY S
6/1/2002	\$0	Arms-Length Transaction		WELLS C ANDREW & PATTY S	HINES KURT & PATRI
7/1/1996	\$0			HINES KURT & PATRI	LANG RICHARD DALE

Photos



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Improvement Information

Building Number	1	Kitchens	0
Description	HOUSE	Dining Rooms	0
Residence Type	Seasonal Cottage	Living Rooms	0
Comm Type		Family Rooms	0
Mobile Home Type		Bedrooms	2
Year Built	1998	Full Baths	1
Effective Age	0	Half Baths	0
Ave. Wall Height	0	Other Rooms	0
Structure	1 Story	Total Rooms	0
Number of Stories	0	Living Sq Ft	960
Exterior	Vinyl	Fireplaces/Water	0/1
Foundation	Post & Pier	Supplemental Heat	
Construction Type		Mobile Home Model	
Construction Quality		Mobile Home Manufacturer	
Building Condition		MH Skirt Foundation	
Roof Type	Gable	Heat	Yes
Roof Cover	Metal	Heat Source	Electric
Roof Pitch		Heat Type	
Basement Type		Air Conditioning	Yes
Basement Finish		AC/Type	Wall Units
Basement Size		Special Improvements	No
Basement Sq Ft	0	Fire Alarm	No
Garage/Carport		Sprinklers	No
Garage Size		Porch/Deck	
Garage Type		Porch Sq Ft	180
Garage Exterior		Deck Sq Ft	0
Width	0	Concrete Sq Ft	0
Length	0	Farm Bldg Type	
Garage Sq Ft	336	Value	\$0.00
Pool		Driveway	
Pool Size	0	Fence	0
Tennis Courts			

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
11/8/2019	\$56,000	Multiple Properties	485-171	STREBLE NICHOLAS & WHITNEY	ZIMMERMAN CONNIE
12/1/2002	\$37,000		331-344	ZIMMERMAN CONNIE	WELLS C ANDREW & PATTY S
6/1/2002	\$0			WELLS C ANDREW & PATTY S	HINES KURT & PATRI
7/1/1996	\$0			HINES KURT & PATRI	LANG RICHARD DALE

Photos



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Grayson County, KY PVA

Summary

Parcel Number	FENTRS CS-062
Account Number	164002
Location Address	BLUE BIRD RD 0
Description	LOT
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	09 County
Rate Per Thousand	9.7900
(City district rates are the combined rate of city and county.)	

[View Map](#)

Owner

Primary Owner
 THOMPSON ADAM & MICHELS TRAVIS
 261 N SKYLINE DR
 LOUISVILLE, KY 40229

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision	FENTRESS CAMPSITE	Flood Hazard	
Lot	062	Zoning	
Block		Electric	No
Acres	0.00	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	

Valuation

	2025 Working	2024 Certified	2023 Certified	2022 Certified	2021 Certified	2020 Certified
+ Land Value	\$24,000	\$24,000	\$24,000	\$24,000	\$15,000	\$15,000
+ Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement Value	\$0	\$0	\$0	\$0	\$0	\$0
= Total Taxable Value	\$24,000	\$24,000	\$24,000	\$24,000	\$15,000	\$15,000
- Exemption Value	\$0	\$0	\$0	\$0	\$0	\$0
= Net Taxable Value	\$24,000	\$24,000	\$24,000	\$24,000	\$15,000	\$15,000
+ Land FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
+ Ag Improvement FCV	\$0	\$0	\$0	\$0	\$0	\$0
= Total FCV	\$0	\$0	\$0	\$0	\$0	\$0
Exemption						
Farm Acres	0.00	0.00	0.00	0.00	0.00	0.00
Fire Protection Acres	0.00	0.00	0.00	0.00	0.00	0.00

Taxes

	2023	2022	2021	2020
Tax	\$274.96	\$261.52	\$179.65	\$180.10

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
9/7/2021	\$24,000	Sliding Scale	504-503	THOMPSON ADAM & MICHELS TRAVIS	GITTINGS GEORGE L JR & SUE ANN
8/1/1998	\$10,000	Close Relative Sale	283-353	GITTINGS GEORGE L JR & SUE ANN	GITTINGS HILDA E

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Grayson County, KY PVA

Summary

Parcel Number	LOOK O-000.0X
Account Number	158007
Location Address	FENTRESS LOOKOUT RD 0
Description	18.61 AC
	(Note: Not to be used on legal documents)
Class	Farm
Tax District	09 County
Rate Per Thousand	9.7900

(City district rates are the combined rate of city and county.)

[View Map](#)

Owner

Primary Owner
[FENTRESS GEORGE FAMILY LLC](#)
 2230 JUNCTION RD
 FALLS OF ROUGH, KY 40119

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	
Lot		Zoning	
Block		Electric	No
Acres	18.61	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	

Valuation

	2025 Working
+ Land Value	\$0
+ Improvement Value	\$0
+ Ag Improvement Value	\$0
= Total Taxable Value	\$0
- Exemption Value	\$0
= Net Taxable Value	\$0
+ Land FCV	\$0
+ Improvement FCV	\$0
+ Ag Improvement FCV	\$0
= Total FCV	\$0
Exemption	
Farm Acres	0.00
Fire Protection Acres	0.00

No data available for the following modules: Special Assessments, Taxes, Improvement Information, Sale Information, Photos, Sketches.

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

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

Postage

Fentress George Family LLC
2230 Junction Rd
Falls of Rough, KY 40119

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



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

Postage

Streble Nicholas & Whitney
2878 Weavers Run Rd
West Point, KY 40177

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



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

Postage

Thompson Adam & Michels Travis
261 N Skyline Dr
Louisville, KY 40229

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



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

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

Postage

Livers Emily
36 Circle Hill Rd
Falls of Rough, KY 40119

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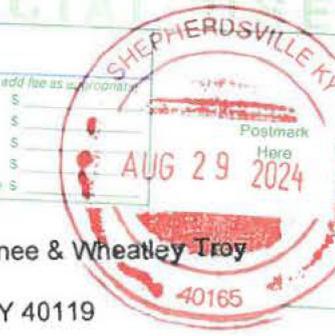
Extra Services & Fees (check box, add fee as appropriate)

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

Postage

Rito Hannah Rennee & Wheatley Troy
21 Circle Hill Rd
Falls of Rough, KY 40119

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Certified Mail Fee
\$

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

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

Postage

Postmark Here

SHEPHERDSVILLE KY
AUG 29 2024
40165

Shelton Robert Wayne Jr & Debra R
362 Cherry Hill Parkway
Mt Washington, KY 40047

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

7022 3330 0000 3636 6972

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Certified Mail Fee
\$

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

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

Postage

Postmark Here

SHEPHERDSVILLE KY
AUG 29 2024
40165

Coppage Martha Raasch
187 Chipmunk Ln
Falls of Rough, KY 40119

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

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Certified Mail Fee
\$

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

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

Postage

Postmark Here

SHEPHERDSVILLE KY
AUG 29 2024
40165

Newton Terry L & Kimberly D
2589 Bluebird Rd
Falls of Rough, KY 40119

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

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\$

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

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

Postage

Postmark Here

SHEPHERDSVILLE KY
AUG 29 2024
40165

Nicolai Roger & Janelle
2663 Blue Bird Rd
Falls of Rough, KY 40119

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Newton Terry L & Kimberly D 2589 Bluebird Rd Falls of Rough, KY 40119</p>	<p>D. Is delivery address different from item 1? If YES, enter delivery address below: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>2. Article Number (Transfer from service label)</p> <p>7022 3330 0000 3636 6996</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Nicolai Roger & Janelle 2663 Blue Bird Rd Falls of Rough, KY 40119</p>	<p>D. Is delivery address different from item 1? If YES, enter delivery address below: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>2. Article Number (Transfer from service label)</p> <p>7022 3330 0000 3636 6941</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>
<p>1. Article Addressed to:</p> <p>Shelton Robert Wayne Jr & Debra R 362 Cherry Hill Parkway Mt Washington, KY 40047</p>	<p>D. Is delivery address different from item 1? If YES, enter delivery address below: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>2. Article Number (Transfer from service label)</p> <p>7022 3330 0000 3636 6989</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Martha Coppage</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Martha Coppage</i></p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Coppage Martha Raasch 187 Chipmunk Ln Falls of Rough, KY 40119</p>  <p>9590 9402 7926 2305 8808 88</p>	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)
<p>2. Article Number (Transfer from service label)</p> <p>7022 3330 0000 3636 6972</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>NS TM</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Nick Stoble</i></p> <p>C. Date of Delivery <i>8-31-20</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Streble Nicholas & Whitney 2878 Weavers Run Rd West Point, KY 40177</p>  <p>9590 9402 7926 2305 8809 18</p>	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)
<p>2. Article Number (Transfer from service label)</p> <p>7022 3330 0000 3636 7009</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Deborah Fentress</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Deborah Fentress</i></p> <p>C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Fentress George Family LLC 2230 Junction Rd Falls of Rough, KY 40119</p>  <p>9590 9402 7926 2305 8809 32</p>	<p>3. Service Type</p> <input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)
<p>2. Article Number (Transfer from service label)</p> <p>7022 3330 0000 3636 7047</p>	
PS Form 3811, July 2020 PSN 7530-02-000-9053	Domestic Return Receipt

UNIT SHIP TO BOTTOM OF THE RETURN ADDRESS LABEL

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:
Thompson Adam & Michels Travis
261 N Skyline Dr
Louisville, KY 40229

COMPLETE THIS SECTION ON DELIVERY

- A. Signature
 Agent
 Addressee
- B. Received by (Printed Name) _____ C. Date of Delivery _____
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No



2. Article Number (Transfer from service label)

7022 3330 0000 3636 7054

PS Form 3811, July 2020 PSN 7530-02-000-9033

Domestic Return Receipt

3. Service Type

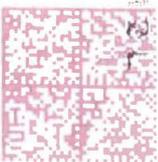
- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

CERTIFIED MAIL®



7022 3330 0000 3636 7054

FIRST-CLASS



US POSTAGE PITNEY BOWES
 ZIP 40165
 02 74
 0006034250 AUG 29 2024
\$ 009.64

Pike
 P.O. Box 369
 Shepherdsville, KY 40165

Thompson Adam & Michels Travis
 261 N Skyline Dr
 Louisville, KY 40229

ml
8/30/24

MIKE

401

0002 3072

RETURN TO SENDER
UNABLE TO FORWARD

EC: 40165030909

*1376-07722-26-59

40165030909
40229-019861



PRINTED AT THE POST OFFICE
POSTAGE WILL BE PAID BY ADDRESSEE
NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:
 Rito Hannah Rennee & Wheatley Troy
 21 Circle Hill Rd
 Falls of Rough, KY 40119

COMPLETE THIS SECTION ON DELIVERY

- A. Signature
 X
 Agent
 Addressee
- B. Received by (Printed Name) _____ C. Date of Delivery _____
- D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

2. Article Number (Transfer from service label)

7022 3330 0000 3636 7016

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

Domestic Return Receipt

3. Service Type
- Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)

Pike
 P.O. Box 369
 Shepherdsville, KY 40165

9/13

[Handwritten signature]

-R-T-S- 40119-RFS-1N

08/30/24P

RETURN TO SENDER
 NO MAIL TO FORWARD
 UNABLE TO SENDER

* RFS *

Rito Hannah Rennee & Wheatley Troy
 21 Circle Hill Rd
 Falls of Rough, KY 40119



7022 3330 0000 3636 7016

FIRST-CLASS



US POSTAGE PAID BY FITNEY BOWES
 ZIP 40165 02 7H \$009.64
 0006034260 AUG 29 2024



402 3636 7016

RETURN TO SENDER
 VACANT
 UNABLE TO FORWARD

40165035559

1570-07494-28-23

PLACE STICKER TOP FOR POSTAGE ADDRESS, ZIP CODE, AND RETURN ADDRESS. DO NOT REMOVE FROM FRONT OF MAIL.

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:
 Livers Emily
 36 Circle Hill Rd
 Fallers Rough, KY 40119

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 X
 Agent
 Addressee

B. Received by (Printed Name) _____

C. Date of Delivery _____

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

9590 9402 7926 2305 8808 95

2. Article Number (Transfer from service label)
 7022 3330 0000 3636 7023

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

3. Service Type

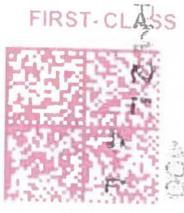
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	

Domestic Return Receipt



Pike
 P.O. Box 369
 Shepherdsville, KY 40165

7022 3330 0000 3636 7023



As in past elections,
 USPS ASSESSMENT BOWES
 Please mail early

ZIP 40165 \$ 009.640
 02 7H
 0006034260 AUG 29 2024

-R-T-S- 40119-RFS-1N
 RETURN TO SENDER
 UNCLAIMED
 UNABLE TO FORWARD
 RETURN TO SENDER

10/11/24



* R F S *

VA-25
 10-22-24
 10-22-24

40119-62083E



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: Falling Branch
Docket Number: 2024-00284**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company 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 2589 Blue Bird Road, Falls of Rough, KY 40119 (37° 35' 46.17" North latitude, 86° 29' 26.44" West longitude) in Grayson County. The proposed facility will include a 108-foot tall tower, with an approximately 3-foot tall lightning arrestor attached at the top, for a total height of 111-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This facility is a substitute for a tower site previously proposed in the vicinity in PSC Case Number 2021-00398. The new facility is approximately 240' from the previously proposed site. The new facility is proposed at an overall height 38' shorter than the previously proposed tower. Also, the new facility is proposed as a monopole rather than lattice tower. The prior facility was never approved by the PSC or constructed.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00284 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. New Cingular Wireless PCS, LLC markets and provides wireless services under AT&T branding. AT&T'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
F. Keith Brown
Attorneys for Applicants
enclosures



EXHIBIT L

**COPY OF COUNTY JUDGE/EXECUTIVE NOTICE
AND PROOF OF 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

Kevin Henderson
County Judge Executive
130 E. Market Street
Leitchfield, KY 42754

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2024-00284
Site Name: Falling Branch

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware limited liability company 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 2589 Blue Bird Road, Falls of Rough, KY 40119 (37° 35' 46.17" North latitude, 86° 29' 26.44" West longitude). The proposed facility will include a 108-foot tall tower, with an approximately 3-foot tall lightning arrestor attached at the top, for a total height of 111-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This facility is a substitute for a tower site previously proposed in the vicinity in PSC Case Number 2021-00398. The new facility is approximately 240' from the previously proposed site. The new facility is proposed at an overall height 38' shorter than the previously proposed tower. Also, the new facility is proposed as a monopole rather than lattice tower. The prior facility was never approved by the PSC or constructed.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00284 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. New Cingular Wireless PCS, LLC markets and provides wireless services under AT&T branding. AT&T'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
F. Keith Brown
Attorneys for Applicants
enclosures



8569 6958
0000 3636
0000 3330
0000 2202

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ _____

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

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

Postage \$ _____

Kevin Henderson
County Judge Executive
130 E. Market Street
Leitchfield, KY 42754

Postmark Here
AUG 29 2024
40165

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">Complete items 1, 2, and 3.Print your name and address on the reverse so that we can return the card to you.Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to: Kevin Henderson County Judge Executive 130 E. Market Street Leitchfield, KY 42754	B. Received by (Printed Name) MARIANNE DOWNS C. Date of Delivery 9-3-24
2. Article Number (Transfer from service label) 9590 9402 7926 2305 8808 40	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No 130 E MARKET ST LEITCHFIELD, KY 42754
3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery

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

EXHIBIT M

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

SITE NAME: FALLING BRANCH
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, 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 2024-00284 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, 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 2024-00284 in your correspondence.



PIKE LEGAL GROUP PLLC
1578 Highway 44 East, Unit 6
PO Box 369
Shepherdsville, KY 40165-0369
Phone: 502-955-4400
Fax: 502-543-4410

VIA TELEPHONE: (270) 259-9622
VIA EMAIL: editor@gcnewsgazette.com

Grayson County News
52 Public Square
Leitchfield, KY 42754

RE: Legal Notice Advertisement
Site Name: Falling Branch

Dear Staff:

Please publish the following legal notice advertisement in the next edition of *The Grayson County News*:

NOTICE

New Cingular Wireless PCS, LLC and Tillman Infrastructure LLC have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on 2589 Blue Bird Road, Falls of Rough, KY 40119 (37° 35' 46.17" North latitude, 86° 29' 26.44" West longitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00284 in any correspondence sent in connection with this matter.

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

Sincerely,
Aaron L. Roof
Pike Legal Group, PLLC

EXHIBIT N

COPY OF RADIO FREQUENCY DESIGN SEARCH AREA



Lat: 37.596529
Long: -86.484175
Radius: .35 miles

Falling Branch Search Area