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AUG 29 2019

PUBLIC SERVICE
COMMISSION

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

In the matter of:

THE APPLICATION OF EAST KENTUCKY NETWORK,)
LLC FOR THE ISSUANCE OF A CERTIFICATE OF)
PUBLIC CONVENIENCE AND NECESSITY TO) CASE NO. 2019-00290
CONSTRUCT A TOWER IN MORGAN COUNTY,)
KENTUCKY.)

East Kentucky Network, LLC d/b/a Appalachian Wireless was granted authorization to provide cellular service in the KY-9 Cellular Market Area (CMA451) by the Federal Communications Commission (FCC). FCC license is included as Exhibit 1. East Kentucky Network, LLC merger documents were filed with the Commission on February 2, 2001 in Case No. 2001-022. East Kentucky Network, LLC is a Kentucky Limited Liability Company that was organized on June 16, 1998. East Kentucky Network, LLC is in good standing with the state of Kentucky.

In an effort to improve service in Morgan County, pursuant to KRS 278.020 Subsection 1 and 807 KAR 5:001, East Kentucky Network, LLC is seeking the Commission's approval to construct a 300 foot telecommunications tower on a tract of land located at 429 McClanahan Hill Road, West Liberty, Morgan County, Kentucky (37°58'04.0828"N 83°18'16.8657"W). A map and detailed directions to the site can be found in Exhibit 7.

Construction of the proposed tower is required by public convenience and necessity. Due to increasing demand for telecommunications service, the proposed tower is necessary to provide adequate coverage. The proposed tower will improve service in Morgan County by providing an interconnection between East Kentucky Network, LLC other sites thereby forming a cohesive network.

Exhibit 2 is a list of all property owners according to the Property Valuation Administrator's record who own property within 500 feet of the proposed tower and all property owners that own property contiguous to the property upon which construction is proposed in accordance with the Property Valuation Administrator's record.

Pursuant to 807 KAR 5:063 Section 1(1)(l), Section 1(1)(m) and Section 2, all affected property owners according to the Property Valuation Administrator's record who own property within 500 feet of the proposed Tower or contiguous to the property upon which construction is proposed were notified by certified mail return receipt requested of East Kentucky Network, LLC's proposed construction and informed of their right to intervene. They were given the docket number under which this application is filed. Enclosed in Exhibit 2 is a copy of that notification.

Morgan County has no formal local planning unit. In absence of this unit, the Morgan County Judge Executive's office was notified by certified mail, return receipt requested, of East Kentucky Network, LLC's proposal and informed of their right to intervene. The Morgan County Judge Executive's office was also given the docket number under which this application is filed. Enclosed in Exhibit 3 is a copy of that notification.

Notice of the location of the proposed construction was published in the The Licking Valley Courier, August 29, 2019, edition. Enclosed is a copy of that notice in Exhibit 3. The Licking Valley Courier is the newspaper with the largest circulation in Morgan County.

A geologist was employed to determine soil and rock types and to ascertain the distance to solid bedrock. The geotechnical report is enclosed as Exhibit 4.

A copy of the tower design information is enclosed as Exhibit 5. The proposed tower has been designed by engineers at Allstate Tower Inc. and will be constructed under their supervision. Their qualifications are evidenced in Exhibit 5 by the seal and signature of the registered professional engineer responsible for this project.

The tower will be erected by S & S Tower Services of St. Albans, West Virginia. S & S Tower Services has vast experience in the erection of communications towers.

FAA and Kentucky Airport Zoning Commission applications are included as Exhibit 6.

No Federal Communications Commission approval is required prior to construction of this facility. Once service is established from this tower we must immediately notify the Federal Communications Commission of its operation. Prior approval is needed only if the proposed facility increases the size of the cellular geographic service area. This cell site will not expand the cellular geographic service area.

East Kentucky Network, LLC will finance the subject construction with earned surplus in its General Fund.

Estimated Cost of Construction	\$ 350,000.00
Annual Operation Expense of Tower	\$ 12,500.00

Two notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2), measuring at least two (2) feet in height and four (4) feet in width and containing all required language in letters of required height, have been posted, one at a visible location on the proposed site and one on the nearest public road. The two signs were posted on August 23, 2019, and will remain posted for at least two weeks after filing of this application as specified.

Enclosed in Exhibit 8 are copies of East Kentucky Network LLC's Deed for the site location along with a lot description.

The proposed construction site is on a rugged mountaintop some feet from the nearest structure. Prior to construction, the site was wooded.

East Kentucky Network, LLC's operation will not affect the use of nearby land nor its value. No more suitable site exists in the area. A copy of the search area map is enclosed in Exhibit 7. No other tower capable of supporting East Kentucky Network, LLC's load exists in the general area; therefore, there is no opportunity for co-location of our facilities with anyone else.

Enclosed and filed as Exhibit 9 is a survey of the proposed tower site signed by a Kentucky registered professional engineer.

Exhibit 10 is a map in one (1) inch equals 200 feet scale identifying every structure and every owner of real estate within 500 feet of the proposed tower and all property owners who own contiguous property to the property upon which construction is proposed.

Exhibit 11 contains a vertical sketch of the tower supplied by James W. Caudill, Kentucky registered professional engineer.

Enclosed as Exhibit 12 is a list of utilities, corporations, or persons with whom the tower is likely to compete.

[THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

WHEREFORE, Applicant, having met the requirements of KRS 278.020(1), 278.650, 278.665 and all applicable rules and regulations of the PSC, respectfully requests that the PSC accept the foregoing Application for filing and grant a Certificate of Public Convenience and Necessity to construct and operate the proposed tower.

The foregoing document was prepared by Krystal Branham, Regulatory Compliance Attorney at East Kentucky Network, LLC d/b/a Appalachian Wireless. All related questions or correspondence concerning this filing should be mailed to East Kentucky Network, LLC d/b/a Appalachian Wireless, 101 Technology Trail, Ivel, KY 41642.

SUBMITTED BY: *Lynn Haney* DATE: 8/28/19
Lynn Haney, Regulatory Compliance Director

APPROVED BY: *W.A. Gillum* DATE: 8/28/19
W.A. Gillum, General Manager

ATTORNEY: *Krystal Branham* DATE: 8/28/19
Hon. Krystal Branham, Attorney

CONTACT INFORMATION:

W.A. Gillum, General Manager
Phone: (606) 477-2355, Ext. 111
Email: wagillum@ekn.com

Lynn Haney, Regulatory Compliance Director
Phone: (606) 477-2355, Ext. 1007
Email: lhaney@ekn.com

Krystal Branham, Attorney
Phone: (606) 477-2355, Ext. 1009
Email: kbranham@ekn.com

Mailing Address:

**East Kentucky Network, LLC
d/b/a Appalachian Wireless
101 Technology Trail
Ivel, KY 41642**

ULS License

Cellular License - KNKN880 - East Kentucky Network, LLC d/b/a Appalachian Wireless

Call Sign	KNKN880	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

Market

Market	CMA451 - Kentucky 9 - Elliott	Channel Block	B
Submarket	0	Phase	2

Dates

Grant	08/30/2011	Expiration	10/01/2021
Effective	09/04/2014	Cancellation	

Five Year Buildout Date

10/23/1996

Control Points

1 U.S. 23, HAROLD, KY

Licensee

FRN	0001786607	Type	Limited Liability Company
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Licensee

East Kentucky Network, LLC d/b/a Appalachian Wireless 101 Technology Trail Ivel, KY 41642 ATTN W.A. Gillum, General Manager / CEO	P:(606)477-2355
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Contact

Lukas, Nace, Gutierrez & Sachs, LLP Pamela L Gist Esq 8300 Greensboro Drive McLean, VA 22102	P:(703)584-8665 F:(703)584-8696 E:pgist@fcclaw.com
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Ownership and Qualifications

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

Demographics

Race

Ethnicity

Gender

EXHIBIT 2 – LIST OF PROPERTY OWNERS

Statement Pursuant to Section 1 (1) (I) 807 KAR 5:063

Section 1 (1)(I) 1. The following is a list of every property owner who according to property valuation administrator's records, owns property within 500 feet of the proposed tower and each have been: notified by certified mail, return receipt requested, of the proposed construction,

Section 1 (1)(I) 2. Every person listed below who, according to the property valuation administrator's records, owns property within 500 feet of the proposed tower has been: Given the Commission docket number under which the application will be processed: and

Section 1 (1)(I) 3. Every person listed below who, according to property valuation administrator's records owns property within 500 feet of the proposed tower has been: Informed of his right to request intervention.

Section 2. If the construction is proposed for an area outside the incorporated boundaries of a city, the application shall state that public notices required by Section 1(1)(L) have been sent to every person who, according to the property valuation administrator, owns property contiguous to the property upon which the construction is proposed

LIST OF PROPERTY OWNERS

Terry and Dawn Cox
9038 Highway 772
West Liberty , KY 41472

Hinkle Contracting Corp.
P.O. Box 200
Paris, KY 40361

Geraldine Whitt
P.O. Box 313
West Liberty , KY 41472

Avery, Jr. and Rebecca Bailey
P.O. Box 15
West Liberty , KY 41472

John Standafer
902 Patrick Road
West Liberty , KY 41472

Gary F. Fugett
1101 Lexington Ave.
Fairborn, OH 45324

Jill Lovica Kitchen
6718 Old Columbus Road
South Vienna, OH 45369

Ronald E. Lewis and Thelma Greer Lewis
237 High Street
Fairborn, OH 45324

Jack Lewis Irrevocable Trust
1809 Southlawn Drive
Fairborn, OH 45324

Tiffany Moeller and Louis Ansart, Jr.
188 Hot Mix Road
West Liberty, KY 41472

Nathaniel Lee Whitt
C/O Roberta Fugett
P.O. Box 101
Wellington, KY 40387

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Hinkle Contracting
P.O. Box 200
Paris, KY 40361

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular telecommunications service in Morgan County. The facility will include a 300-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land near 429 McClanahan Hill Road, West Liberty, Morgan County. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. The Commission must receive your initial communication within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2019-00290 in your correspondence.

If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Terry and Dawn Cox
9038 Highway 772
West Liberty, KY 41472

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

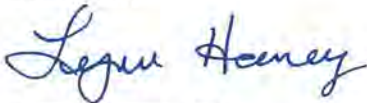
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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Geraldine Whitt
P.O. Box 313
West Liberty, KY 41472

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

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Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Avery, Jr. and Rebecca Bailey
P.O. Box 15
West Liberty, KY 41472

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

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Sincerely,

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

John Standafer
902 Patrick Road
West Liberty, KY 41472

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Gary F. Fugett
1101 Lexington Ave.
Fairborn, OH 45324

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

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If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Jill Lovica Kitchen
6718 Old Columbus Road
South Vienna, OH 45369

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

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Sincerely,

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Ronald E. Lewis and Thelma Greer Lewis
237 High Street
Fairborn , OH 45324

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular telecommunications service in Morgan County. The facility will include a 300-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land near 429 McClanahan Hill Road, West Liberty, Morgan County. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Jack Lewis Irrevocable Trust
1809 Southlawn Drive
Fairborn, OH 45324

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

East Kentucky Network, LLC d/b/a Appalachian Wireless has applied to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular telecommunications service in Morgan County. The facility will include a 300-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land near 429 McClanahan Hill Road, West Liberty, Morgan County. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Tiffany Moeller and Louis Ansart, Jr.
188 Hot Mix Road
West Liberty, KY 41472

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

August 29, 2019

Nathaniel Lee Whitt
C/O Roberta Fugett
P.O. Box 101
Wellington, KY 40387

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2019-00290)

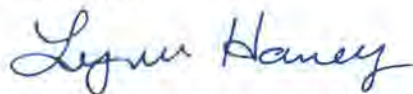
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Sincerely,



Lynn Haney, CPA
Regulatory Compliance Director

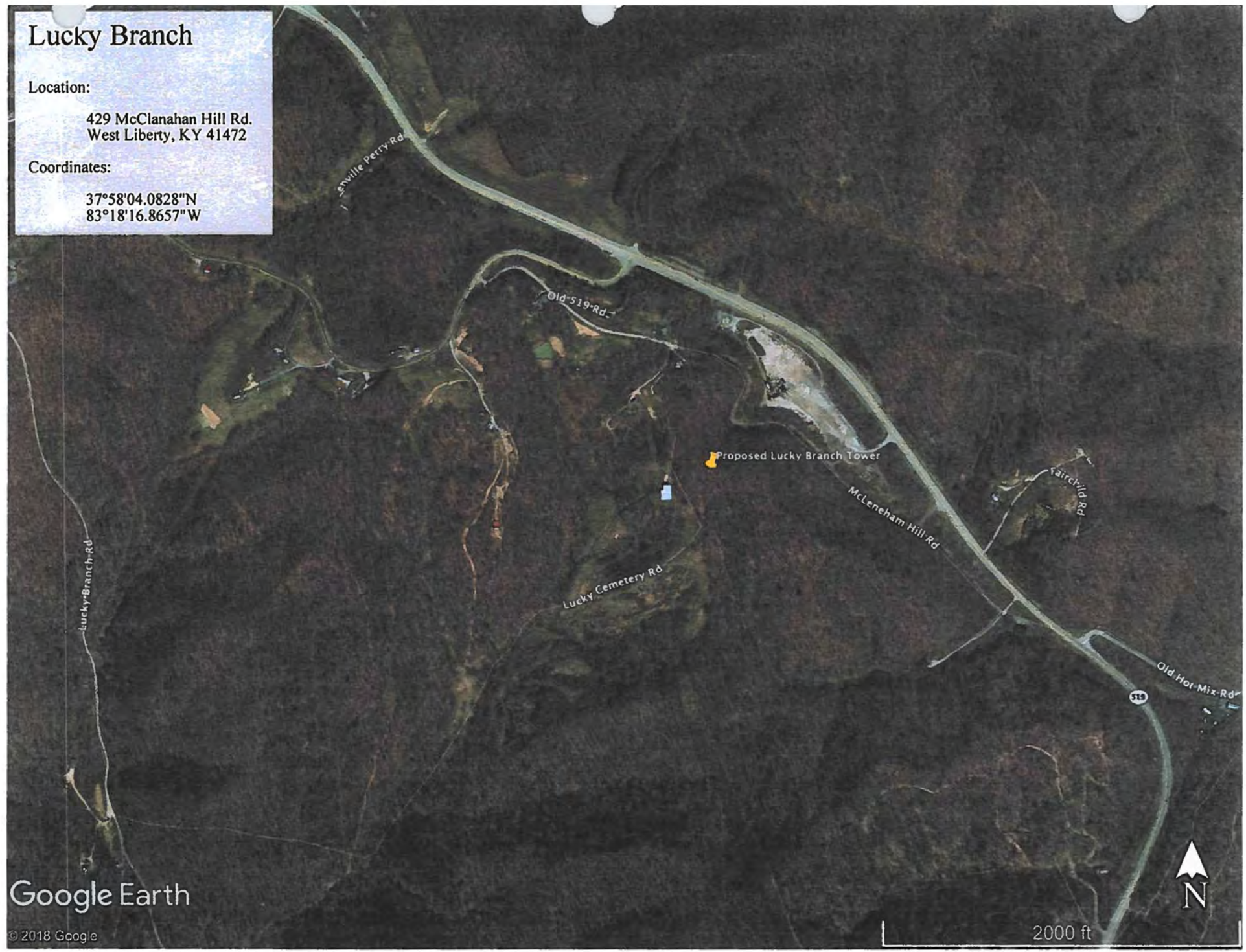
Lucky Branch

Location:

429 McClanahan Hill Rd.
West Liberty, KY 41472

Coordinates:

37°58'04.0828"N
83°18'16.8657"W



Google Earth

© 2018 Google

2000 ft

dba Appalachian Wireless
101 Technology Trail
Ivel, KY 41642
Phone: 606-477-2355
Fax: 606-791-2225

EAST KENTUCKY
NETWORK



To: The Licking Valley Courier
Attn: Classifieds

From: Raina Helton
Regulatory Compliance Assistant

Email: courier@mrtc.com

Date: August 21, 2019

Re: PUBLIC NOTICE ADVERTISEMENT

Pages: 1

Please place the following Public Notice Advertisement in The Licking Valley Courier to be ran on August 29, 2019, 2019.

PUBLIC NOTICE:

RE: Public Service Commission of Kentucky (CASE NO. 2019-00290)

Public Notice is hereby given that East Kentucky Network, LLC, dba Appalachian Wireless has applied to the Kentucky Public Service Commission to construct a cellular telecommunications tower on a tract of land located at 429 McClanahan Hill Road, West Liberty, Morgan County, Kentucky. The proposed tower will be a 300 foot self-supporting tower with attached antennas. If you would like to respond to this notice, please contact the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00290.

If you have any questions about the placement of the above mentioned notice, please call me at 606-477-2375, ext. 1005.

Thank you,

Raina Helton
Regulatory Compliance Assistant

The message above and the information contained in the documents transmitted are confidential and intended only for the person(s) named above. Dissemination, distribution or copying of this communication by anyone other than the person(s) named above is prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the address listed above via regular mail. Thank you.



VIA: U.S. CERTIFIED MAIL

August 29, 2019

John Will Stacy, Judge Executive
450 Prestonsburg Street
West Liberty, KY 41472

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The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. The Commission must receive your initial communication within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2019-00290 in your correspondence.

If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney".

Lynn Haney
Regulatory Compliance Director
Enclosure

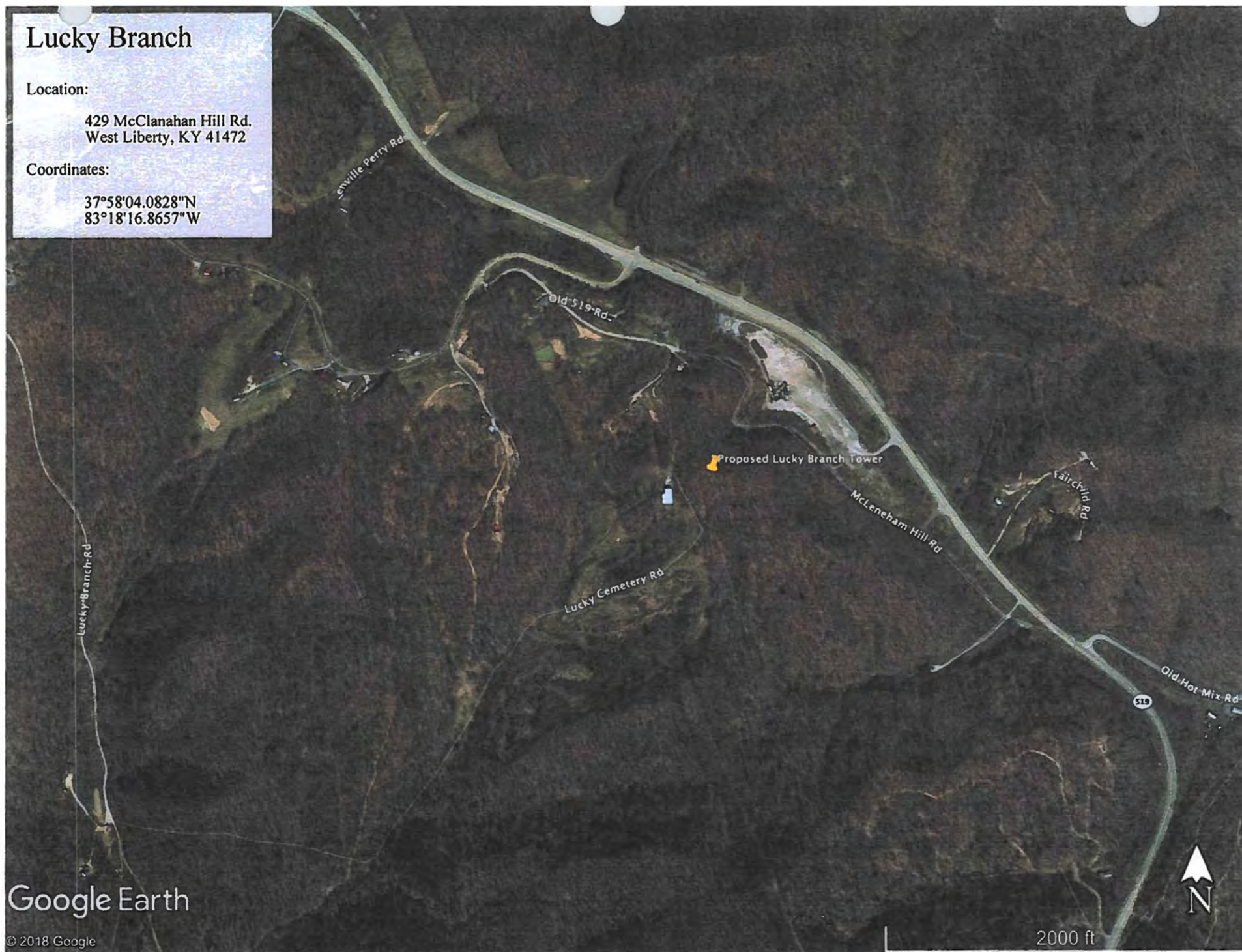
Lucky Branch

Location:

429 McClanahan Hill Rd.
West Liberty, KY 41472

Coordinates:

37°58'04.0828"N
83°18'16.8657"W



Google Earth

© 2018 Google

2000 ft



230 Swartz Drive • Hazard • Kentucky • 41701
Phone (606) 551-1050

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**APPALACHIAN WIRELESS
Geotechnical Investigation on the
Lucky Branch Tower Site
Morgan County, Kentucky
EKYENG Project No. 165-000-0086 Rev No. 1**

PREPARED FOR:
Appalachian Wireless.
101 Technology Trail
Ivel, Kentucky 41642

PREPARED BY:
Richard Dirk Smith PE, PLS
President
East Kentucky Engineering
230 Swartz Drive
Hazard, Kentucky 41701



, 20215, August 5th, 2019



EAST KENTUCKY ENGINEERING, LLC.

EXECUTIVE SUMMARY

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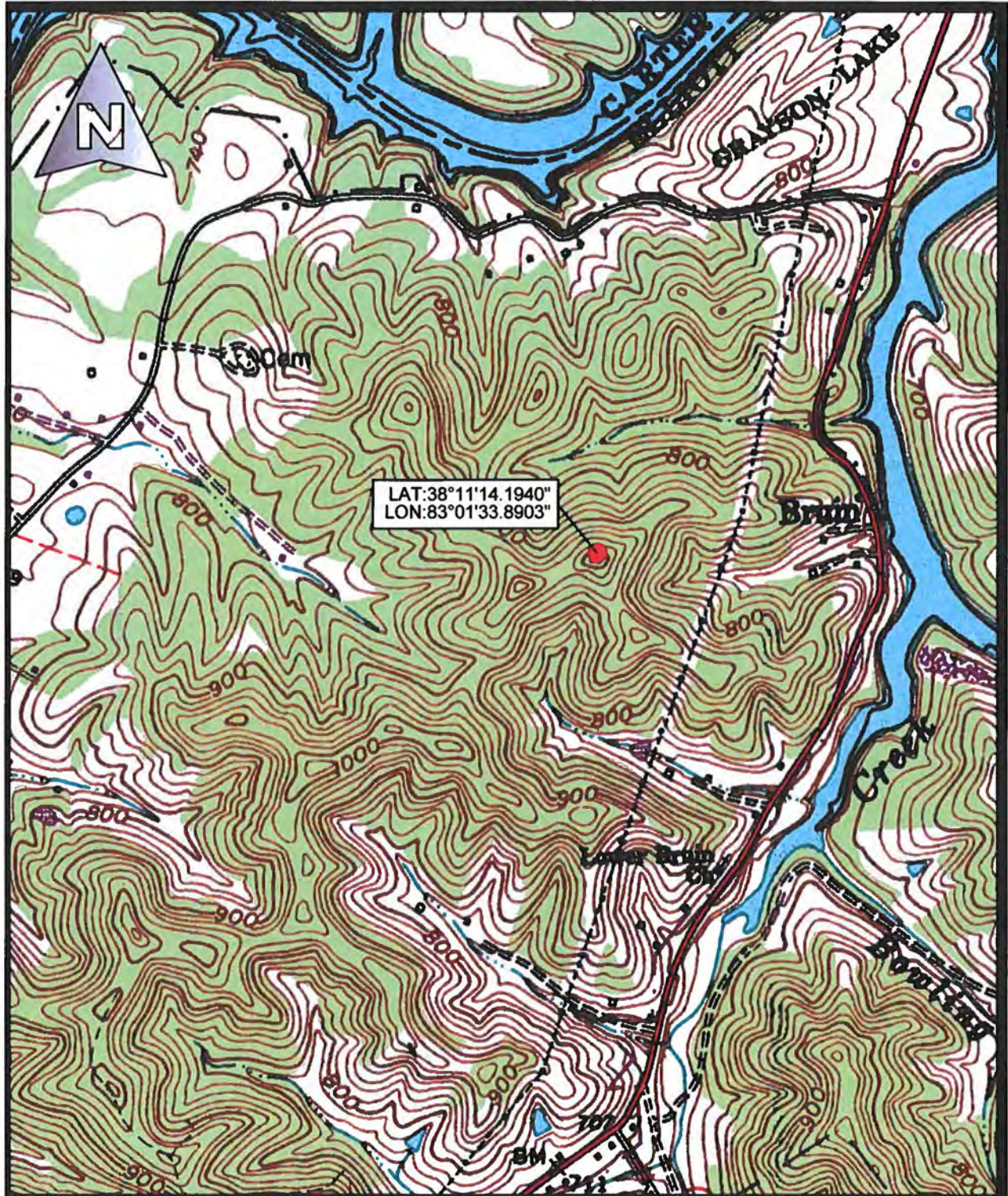
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IV – GENERAL CONCRETE SPECIFICATIONS

APPENDIX A – PHOTOGRAPHS

APPENDIX B – SEISMIC DATA

APPENDIX C – MAPS



Drawn: RDS	Date: 5/24/2019
Job: 165-086	Scale: 1"=1000

**APPALACHIAN WIRELESS
EXCERPT FROM USGS QUAD
LOCATION MAP
LUCKY BRANCH TOWER
FIGURE NO 1**

East Kentucky Engineering, LLC.
230 Swartz Drive
Hazard, KY 41701
(606) 551-1050



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3.0 SITE DESCRIPTION & HISTORICAL MINING

3.1 GENERAL INFORMATION

The site location is on a forested slope, in Morgan County, Kentucky. The current surface elevation is approximately 1,122.2 ft. Research on the historical mining was conducted by obtaining previous mine license maps from the "Kentucky Mine Mapping Information System" (KMMIS).

3.2 SURFACE MINING

No surface mining or auger mining was found during our research that would influence this site. No adverse issues from surface mining activities are expected at this site location.

3.3 UNDERGROUND MINING

No underground mining under or adjacent to this site was found during our research. Therefore, no adverse impact from underground mining activities are expected at this site.

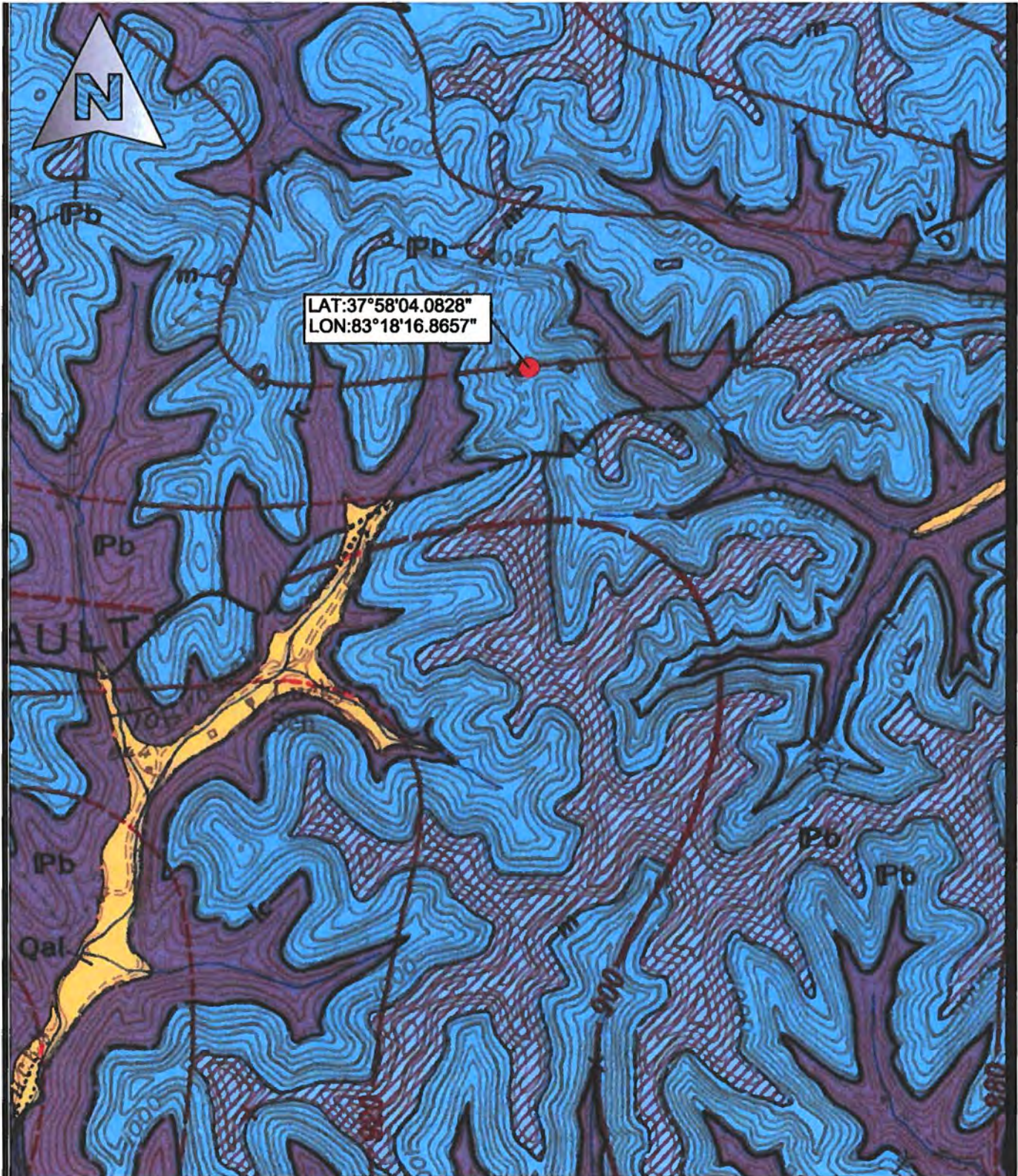
3.4 FLOOD HAZARD

A flood determination was conducted by EKYENG. For this determination, the FEMA Flood Map Service was reviewed for this location. The flood map for the selected area is number **21175C0175C**. The flood zone for this area is Zone X and is an area of minimal flood Hazard. A FIRMette map is included in Appendix C of this report.

4.0 FIELD EXPLORATION

4.1 SITE INFORMATION

The proposed site is located on a forested slope in Morgan County, Kentucky. The site lies within the West Liberty Quadrangle. The site is not readily accessible by conventional exploratory equipment. An estimated pad location was



Drawn: RDS	Date: 5/24/2009
Job: 165-088	Scale: 1"=1000

**APPALACHIAN WIRELESS
EXCERPT FROM GEOLOGIC QUAD
LOCATION MAP
LUCKY BRANCH TOWER
FIGURE NO 2**

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Hazard, KY 41701
(606) 551-1050



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determined based on the information provided. Foundation dimensions were estimated to be a 43.5 ft X 43.5 ft footer for this report.

4.2 TRENCHING

This investigation was conducted by trenching with an excavator to determine subsurface information. The combinations of trenching and visual inspections were used to evaluate the site lithology and type of materials immediately below the proposed tower site. The following soils and rock properties were found.

TABLE 2

Test Pit	DEPTH INCREMENT, (FT.) TO REFUSAL	SOILS TYPE
TR	0.0 / 1.5	Soils/ Weath. SS.
TR	1.5 / 22.5	Sandstone

Note: A cross-section of this information is in Appendix C of this report

4.3 GROUNDWATER

Groundwater in Eastern Kentucky is characterized by water flowing through a system of internal fractures that lead to an alluvial aquifer near the bottom of valley floors. Large, defined aquifers other than the alluvium is not common, especially in higher elevations such as where this tower site is proposed. Therefore, groundwater should not be a concern in this area. During field test activities, no groundwater resources were observed.

4.4 SEISMIC SITE CLASSIFICATION

Based on the encountered soil conditions at the project site, the site classification was determined to be "Site Class A" per the 2015 Kentucky Building Code. In addition, an S_{DS} coefficient of 0.10 g was calculated, and an S_{D1} coefficient of



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0.045 g was also calculated for design based on the aforementioned building code.

5.0 DISCUSSION AND RECOMMENDATIONS

5.1 GENERAL

The structure will be a self-supporting free-standing tri-pole tower. Due to wind loading, lattice tower foundations can experience both vertical loads and horizontal loads. The vertical loads act in both an upward and downward direction as the tower attempts to overturn and can act in any directions.

5.2 SHALLOW MAT FOUNDATIONS RECOMMENDATIONS

We are recommending shallow foundations. It should be noted that the material type and bearing capacity can vary significantly due to the inconsistency of the underlying material. Based on the laboratory and field testing, visual inspection of the materials and practical experience we have estimated that the **allowable bearing capacity of the weathered sandstone at this site will be 6 TSF at the at the estimated mat base elevation of 1,115.0 ft.** The weathered sandstone unit is present from the range of 1115.0 ft to 1105.0 ft and will provide the necessary cut width to support the proposed mat without overhanging outside the rock outcrop line.

It is furthermore recommended that the slabs-on-grade be supported on a 4 to 6-inch layer of relatively clean granular material such as sand and gravel or crushed stone. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Proper drainage must be incorporated into this granular layer to preclude future wet areas in the finished slab-on-grade. However, all topsoil and/or other deleterious materials encountered during site preparation must be removed and replaced with 4000 psi concrete below the foundation base. Provided that a minimum of 4 inches of granular material is



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placed below the new slab-on-grade, a modulus of subgrade reaction (k30) of 100 lbs/cu in can be used for the design of the slabs.

Support structure for this tower can be placed as needed. It is recommended that test pits are examined to ensure that any of these structures are on the competent materials. If pockets of soft, loose or otherwise unsuitable material are encountered in the footing excavations, and it is inconvenient to lower the footings, the proposed footing elevations may be re-established by backfilling after the undesirable material has been removed. The undercut excavation beneath each footing should extend to suitable bearing soils, and the dimensions of the excavation base should be determined by imaginary planes extending outward and down on a 1 (vertical) to 1 (horizontal) slope from the base perimeter of the footing. The entire excavation should then be refilled with a well-compacted engineered fill, or lean concrete (Please note that the width of the lean concrete zone should be equal or wider than the width of the overlying footing element). Special care should be exercised to remove any sloughed, loose or soft materials near the base of the excavation slopes. In addition, special care should be taken to "tie-in" the compacted fill with the excavation slopes, with benches as necessary, to ensure that no pockets of loose or soft materials will be left in place along the excavation slopes below the foundation bearing level. All Federal, State, and Local regulations should be strictly adhered to relative to excavation side-slope geometry.

5.3 BURIED UTILITIES

Excavations for buried utility pipelines should follow the guidelines outlined in this report. Depending on the pipeline material, a minimum thickness of at least 0.5 feet of select fine-grained granular bedding material should be used beneath all below-grade pipes, with a minimum cover thickness of at least 3 feet to afford an "arching" effect and reduce stresses on the pipe. The cover thickness may be reduced if the external loading condition on the pipe is relatively light or if the pipe is designed to withstand the external loading condition. It is not recommended that



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"pea-gravel" or other "open-work" aggregates be used for trench backfill since these materials are nearly impossible to compact and tend to pond water within their interstices.

6.0 WARRANTY

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. No other warranty, express or implied, is made.

While the services of EKYENG are a valuable and integral part of the design and construction teams, we do not warrant, guarantee, or ensure the quality or completeness of services provided by other members of those teams, the quality, completeness, or satisfactory performance of construction plans and specifications which we have not prepared, nor the ultimate performance of building site materials.

6.1 SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings, although test pits are sometimes employed. The location and elevation of the test locations should be considered accurate only to the degree inherent with the method used.

The boring log includes sampling information, description of the materials recovered, approximate depth of boundaries between soil and rock strata and groundwater data. The boring log represents conditions specifically at the location and time the testing was conducted. The boundaries between different soil strata are indicated at specific depths; however, these depths are in fact approximate and are somewhat dependent upon the frequency of sampling (The transition between soil strata is often gradual). Free groundwater level readings are made at the times and under conditions stated on the boring logs



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(Groundwater levels change with time and season). The trenches and pits do not always remain open sufficiently long enough for the measured water level to coincide with the groundwater table.

6.2 LABORATORY AND FIELD TESTS

Laboratory and field tests are performed by specific ASTM standards unless otherwise indicated. All determinations included in each ASTM standard are not always required and performed. Each test report indicates the measurements and determinations made.

6.3 ANALYSIS AND RECOMMENDATIONS

The geotechnical report is prepared primarily to aid in the engineering design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it is not intended to determine the cost of construction or to stand alone as a construction specification.

Our engineering report recommendations are based primarily on data from test borings or other methods made at the locations shown on the attached drawings. Soil variations may exist between test sites, and these variations may not become evident until construction. If significant variations are then noted, the geotechnical engineer should be contacted so that field conditions can be examined and recommendations revised if necessary.

The geotechnical engineering report states our understanding as to the location, dimensions and structural features proposed for the site. Any significant changes in the nature, design, or location of the site improvements **MUST** be communicated to the geotechnical engineer such that the geotechnical analysis, conclusions, and recommendations can be appropriately adjusted. The geotechnical engineer should be given the opportunity to review all drawings that have been prepared based on their recommendations.



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6.4 CONSTRUCTION MONITORING

Construction monitoring is a vital element of complete geotechnical services. The field engineer/inspector is the owner's "representative" observing the work of the contractor, performing tests as required in the specifications, and reporting data developed from such tests and observations. The field engineer or inspector does not direct the contractor's construction means, methods, operations or personnel. The field inspector/engineer does not interfere with the relationship between the owner and the contractor and, except as an observer, does not become a substitute owner on site. The field inspector/engineer is responsible for his own safety but has no responsibility for the safety of other personnel at the site. The field inspector/engineer is an important member of a team whose responsibility is to watch and test the work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications.

6.5 GENERAL

The scope of our services did not include an environmental assessment for the presence or absence of hazardous or toxic materials in the soil, surface water, groundwater or air, on, within or beyond the site studied. Any statements in the report or on the boring logs regarding odors, staining of soils or other unusual items or conditions observed are strictly for the information of our client.

To evaluate the site for possible environmental liabilities, we recommend an environmental assessment, consisting of a detailed site reconnaissance, a record review, and report of findings. Additional subsurface drilling and samplings, including groundwater sampling, may be required.

This report has been prepared for the exclusive use of Appalachian Wireless, for specific application to the proposed cellular tower located on the Lucky Branch Property located in Morgan County, Kentucky. Specific design and construction recommendations have been provided in the various sections of the report. The



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report shall, therefore, be used in its entirety. This report is not a bidding document and shall not be used for that purpose. Anyone reviewing this report must interpret and draw their conclusions regarding the specific construction techniques and methods that were chosen. EKYENG is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploratory and laboratory test data presented in this report.



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SPECIFICATIONS

I – GENERAL

1.0 STANDARDS AND DEFINITIONS

1.1 STANDARDS - All standards refer to latest edition unless otherwise noted.

1.1.1 ASTM D-698-70 (Method C) "Standard Test Methods for Moisture, Density Relations of Soils and Soil-Aggregate Mixtures Using 5.5-lb (2.5 kg.) Rammer and 12-inch (305-mm) Drop".

1.1.2 ASTM D-2922 "Standard Test Method for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)."

1.1.3 ASTM D-1556 "Standard Test Method for Density of Soil in place by the Sand-Cone Method."

1.2 DEFINITIONS

1.2.1 Owner - In these specifications, the word "Owner" shall mean Appalachian Wireless.

1.2.2 Engineer - In these specifications, the word "Engineer" shall mean the Owner designated engineer.

1.2.3 Design Engineer - In these specifications, the words "Design Engineer" shall mean the Owner designated design engineer.

1.2.4 Contractor - In these specifications, the word "Contractor" shall mean the firm or corporation undertaking the execution of any work under the terms of these specifications.

1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.

1.2.6 As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.



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2.0 GENERAL CONDITIONS

2.1 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set-out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described therein.

This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications.

This work is to be accomplished under the observation of the Owner or his designated representative.

2.2 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including, without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a changed condition should not be disturbed so that the owner can investigate the condition.

2.3 The construction shall be performed under the direction of an experienced engineer who is familiar with the design plan.



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II - ENGINEERED FILL BENEATH STRUCTURES CLEARING AND GRADING SPECIFICATIONS

1.0 GENERAL CONDITIONS

The Contractor shall furnish all labor, materials, and equipment, and perform all work and services necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction and grading as shown on the plans and as described therein.

This work shall consist of all clearing and grading, removal of existing structures unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications.

This work is to be accomplished under the constant and continuous supervision of the Owner or his designated representative.

In these specifications, the terms "approved" and "as directed" shall refer to directions to the Contractor from the Owner or his designated representative.

2.0 SUBSURFACE CONDITIONS

Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work. Borings and/or soil investigations shall have been made. Results of these borings and studies will be made available by the Owner to the Contractor upon his request, but the Owner is not responsible for any interpretations or conclusions with respect thereto made by the Contractor based on such information, and the



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Owner further has no responsibility for the accuracy of the borings and the soil investigations.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a changed condition should not be disturbed so that the Owner can investigate the condition.

3.0 SITE PREPARATION

Within the specified areas, all trees, brush, stumps, logs, tree roots, and structures scheduled for demolition shall be removed and disposed of.

All cut, and fill areas shall be properly stripped. Topsoil will be removed to its full depth and stockpiled for use in finish grading. Any rubbish, organic and other objectionable soils, and other deleterious material shall be disposed of off the site, or as directed by the Owner or his designated representative if on-site disposal is provided. In no case shall such objectionable material be allowed in or under the fill unless specifically authorized in writing.

Prior to the addition of fill, the original ground shall be compacted to job specifications as outlined below. Special notice shall be given to the proposed fill area now. If wet spots, spongy conditions, or groundwater seepage is found, corrective measures must be taken before the placement of fill.

4.0 FORMATION OF FILL AREAS

Fills shall be formed of satisfactory materials placed in successive horizontal layers of not more than eight (8) inches in loose depth for the full width of the cross-section. The depth of lift may be increased if the Contractor can demonstrate the ability to compact a larger lift. If compaction is accomplished using hand-tamping equipment, lifts will be limited to 4-inch loose lifts. Engineered fill placed below the structure bearing elevation shall be compacted to at least 95% of the maximum dry unit weight with a moisture content within 2% of the optimum moisture content as determined by the modified Proctor test. The top size of the material placed shall not exceed 4 inches.



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All material entering the fill shall be free of organic matter such as leaves, grass, roots, and other objectionable material.

The operations on earthwork shall be suspended at any time when satisfactory results cannot be obtained because of rain, freezing weather, or other unsatisfactory conditions. The Contractor shall keep the work areas graded to provide the drainage always.

The fill material shall be of the proper moisture content before compaction efforts are started. Wetting or drying of the material and manipulation to secure a uniform moisture content throughout the layer shall be required. Should the material be too wet to permit proper compaction or rolling, all work thus affected shall be delayed until the material has dried to the required moisture content. The moisture content of the fill material should be no more than two (2) percentage points higher or lower than optimum unless otherwise authorized. Sprinkling shall be done with equipment that will satisfactorily distribute the water over the disced area. Any areas inaccessible to a roller shall be consolidated and compacted by mechanical tampers. The equipment shall be operated in such a manner that hardpan, cemented gravel, clay or other chunky soil material will be broken up into small particles and become incorporated with the other material in the layer.

In the construction of filled areas, starting layers shall be placed in the deepest portion of the fill, and as placement progresses, additional layers shall be constructed in horizontal planes. Original slopes shall be continuous, vertically benched to provide horizontal fill planes. The size of the benches shall be formed so that the base of the bench is horizontal, and the back of the bench is vertical. As many benches as are necessary to bring the site to final grade shall be constructed. Filling operations shall begin on the lowest bench, with the fill being placed in horizontal eight (8) inch thick loose lifts unless otherwise authorized. The filling shall progress in this manner until the entire first bench has been filled, before any fill is placed on the succeeding benches. Proper drainage shall always be maintained during benching and filling of the benches, to ensure that all water is drained away from the fill area.



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Frozen material shall not be placed in the fill nor shall the fill be placed upon frozen material.

The Contractor shall be responsible for the stability of all fills made under the contract and shall replace any portion, which in the opinion of the Owner or his designated representative, has become displaced due to carelessness or negligence on the part of the Contractor. Fill damaged by inclement weather shall be repaired at the Contractor's expense.

5.0 SLOPE RATIO AND STORM WATER RUN-OFF

Slopes shall not be greater than 2 (horizontal) to 1 (vertical) in both cut and fill, or as illustrated on the construction drawings. Excavations shall be constructed in accordance with all Federal, State and local codes relative to slope geometry.

6.0 GRADING

The Contractor shall furnish, operate, and maintain such equipment as is necessary to construct uniform layers and control smoothness of grade for maximum compaction and drainage.

7.0 COMPACTING

The compaction equipment shall be approved equipment of such design, weight, and quantity to obtain the required density in accordance with these specifications.

8.0 TESTING AND INSPECTION SERVICES

Testing and inspection services will be provided by the Owner.



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GUIDELINES FOR EXCAVATIONS AND TRENCHES

The following represents some general guidelines relative to the design and construction of excavations and trenches. It must be emphasized that these guidelines are not intended to represent a "safety plan," but rather are presented herein to provide general guidance regarding the design characteristics and safety measures for excavations and trenches.

1. Check with the following utilities prior to breaking ground:

- Sewer
- Telephone
- Fuel
- Electric
- Water
- Gas
- Cable

When utility companies or owners do not respond to your request within 48 hours, the contractor may only then proceed provided the contractor does so with caution by using detection equipment or other acceptable means to locate utility installations.

Once the excavation is open, the contractor should protect and support the exposed underground utilities or remove installations to safeguard workers and prevent damage to exposed utilities.

2. Access and egress ramps must be designed by a "competent person" and structural ramps used for equipment must be designed by a "competent person" with qualified knowledge in structural design. In addition:

- Ramps must be secured to prevent displacement;
- Ramps used in lieu of steps must have cleats to prevent slipping; and



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- Trenching excavations four feet or greater in depth must have a stairway, ladder, ramps or other safe means to egress with lateral travel no more than 25 feet.
3. Workers must be provided with reflector garments, such as warning orange or red vests, when exposed to vehicular traffic.
 4. Contractors must not allow workers to work under or near equipment when there is danger of falling debris, spillage or equipment-related injuries.
 5. Mobile equipment, operating adjacent to an open excavation or approaching the edge of an excavation, must have one of the following when the operator's view is obstructed:
 - Warning System
 - Mechanical Signals
 - Barricades
 - Stop Logs
 - Hand Signals
 6. The contractor must check the atmosphere for hazardous gases and oxygen deficiencies when excavating four feet or greater around landfills, or when hazardous substances are stored nearby, and when the contractor expects there could be any exposure to the workers.
 7. When hazardous atmospheric conditions exist, or when conditions could change, the contractor must make emergency rescue equipment readily available including breathing apparatus, safety harnesses with lifelines and a basket stretcher.
 8. When workers enter bell-bottom pier holes or other deep and confined excavations, the worker must wear (always while performing work in the confined space) a separate lifeline attached to a harness. The line must be



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attended by someone above while work is being performed. The worker must check for hazardous atmospheric conditions prior to entry.

- 9.** The contractor must ensure that water does not accumulate in open excavations and must inspect the excavation prior to allowing workers to re-enter after heavy rains.
- 10.** Adjacent structures (buildings, walls, etc.) must be supported or secured to prevent worker exposure to unsafe conditions and damage to existing structures.
- 11.** A registered professional engineer must approve operations when a contractor underpins existing structures to ensure worker safety and prevent damage to existing structures.
- 12.** Workers must not be exposed to loose soil and rock or materials in and around excavations. Materials, such as removed soil and rock, must not be stored closer than two feet from the edge of the excavation.
- 13.** Daily inspections of the excavation, the adjacent areas, and protective systems must be made by a "competent person" for evidence of possible cave-ins, indications of failure of protective systems, hazardous atmospheres or other hazardous conditions. The "competent person" must stop work immediately and remove workers from the excavation when conditions change and pose a threat to their safety.
- 14.** Workers must not be exposed to fall hazards associated with excavations. Protective walkways or bridges with standard guardrails must be provided.
- 15.** All wells, pits, shafts etc. must be barricaded or covered. After completion of work, all wells, pits, shafts etc. must be backfilled.



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IV - GENERAL CONCRETE SPECIFICATIONS

1.0 GENERAL

It is the intent of this specification to secure, for every part of the work, concrete of homogenous structure which, when hardened, will have the required strength and resistance to weathering. To this end, the limiting values of concrete and the requirements hereinafter specified must be met. Standard tests of the cement, aggregates, concrete and reinforcement will be made by the Owner as it sees fit. The Contractor shall furnish the material for all required samples plus such labor as required to obtain samples. The Contractor shall provide to authorized representatives of the Owner, convenient access to all parts of the work of all concreting operations for sampling and inspection.

2.0 SCOPE

Contractor shall furnish all materials, labor, services, transportation, tools, equipment, and related items required to complete work indicated on the drawings and/or specified.

Unless otherwise noted or as modified by more stringent requirements specified herein, all plain and reinforced concrete work shall be performed in full compliance with applicable requirements of the Building Code Requirements for Reinforced Concrete ACI 318.

Contractor shall obtain Owner's approval of all subgrades, footing bottoms, forms, and reinforcement just prior to placing concrete.

Contractor shall coordinate the work specified in this section with that specified in other sections so that all anchors, pipes and other embedded items are properly installed before concrete is placed.

Contractor shall clean all exposed concrete surfaces and obtain approval of Owner for method of cleaning.

3.0 MATERIALS



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All materials shall be of the respective quality specified herein, delivered, stored, and handled as to prevent inclusion of foreign matter and damage by dampness or breakage. Packaged material shall be stored in original container until ready for use. Materials showing evidence of dampness or other damage may be rejected.

- A. Fine and Coarse Aggregates: Coarse and fine aggregates shall conform to ASTM Specification C33. The maximum size of aggregate shall not be larger than one-fifth (1/5) of the narrowest dimensions between forms, or larger than three fourths (3/4) of the minimum clear spacing between reinforcement.
1. Fine Aggregate: Sand shall be composed essentially of clean, hard, strong, durable grains free of structurally weak grains, organic matter, loam, clay, silt, salt, mica or other fine materials that may affect bonding of the cement paste.
 2. Coarse Aggregate: Cement concrete shall consist of crushed rock or screened gravel and shall be composed essentially of clean, hard, strong and impermeable particles, resistant to wear and frost and free from deleterious amounts of organic matter, loam, clay, salts, mica, and soft, thin, elongated, laminated or disintegrated stone, and shall be inert to water and cement.
- B. Portland Cement: Portland cement shall conform to ASTM Specification C150. Type I or Type II Portland Cement shall be used if they are not intermixed during any one batch. Type II Portland Cement shall not be used unless indicated on the plans.
- C. Water: Water for mixing and curing shall be clean, fresh, and free from deleterious materials.
- D. Metal Reinforcement: Rebar shall be Grade 60 and with deformations conforming to ASTH Specification A305. Welded wire mesh shall conform to W4 x W4 size and be of Grade 60 steel.
- E. Admixtures: Except as herein noted, admixtures shall not be used.



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1. Under adverse weather conditions only retarding or accelerating agents containing no chloride may be used.
2. Air-Entraining Agent shall be used for all concrete will give an entrained air range of not less than 4 percent but no greater than 8 percent in the finished product. Under no circumstances shall the air-entraining be interground with cement.
3. Approval in writing shall be required from Owner prior to the use of any admixture.

4.0 FORM

Forms shall be constructed with proper shoring and cross-bracing, safeguarding the total structure and specifically lateral stability and sufficiently strong to stand vibrations of concrete and to carry, without appreciable deflection or displacement, all dead and live loads to which they may be subjected.

5.0 INSERTS, ETC.

Anchors, bolts, dowels, conduit, water stops, vent pipes and other similar built-in or concreted-in items shall be properly located, accurately positioned and secured. The Contractor shall cooperate in placing of such items with other contractors who require a fastening device for their work and he shall maintain them in proper location during the progress of his work.

6.0 REINFORCEMENT

Reinforcement at the time concrete is placed shall be free from rust, scale or other coatings that will destroy or reduce the bond.



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Reinforcement shall be accurately placed and securely tied at intersections and shall be securely held in position during the placing of concrete by pacers, chairs, or other approved supports.

The reinforcement of foundations, footings and other principal structural members in which the concrete is deposited against the ground shall not have less than three (3) inches of concrete between it and the ground contact surface. If concrete surfaces after removal of the forms are to be exposed to the weather or to be in contact with the ground or rock, reinforcement shall be protected with not less than two (2) inches of concrete,

7.0 CONCRETE

Concrete for the various parts of the work shall be of 4000 pounds per square inch compressive strength with a minimum 28-day cure. Contractor is responsible to provide a mix of not less than 6 bags of cement per yard of concrete and not more than 7 gallons of water per bag of cement, producing a minimum slump of 2-1/2 inches and a maximum slump of 4-1/2 inches. Concrete that exceeds the above range of maximum or minimum slump requirements may be rejected by the Owner. All concrete shall be air-entrained. Contractors are required to furnish the name or names of the company(s) that will be providing the mix. The Owner reserves the right to disapprove any concrete supplier that has been known to supply an undesirable material to the Owner on previous occasions.

8.0 DEPOSITING CONCRETE

4.1. Preparation for Placing Concrete: Before depositing concrete, the Contractor shall:

1. Remove from space to be occupied by concrete all debris, including snow, ice, and water unless otherwise permitted by Owner.
2. Provide diversion, satisfactory to Owner, of any flow of water to an excavation to avoid washing the freshly deposited concrete.



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3. Coat the forms prior to placing of reinforcing steel as required in form work.
 4. Secure firmly in correct position, all reinforcement and other items to be encased and remove therefrom all coating including ice and frost.
- B. Transportation of Concrete from Batch Plant: The concrete shall be delivered to the site of the work and discharge shall be completed within 90 minutes after addition of the cement and water to the aggregates. Each batch of concrete delivered at the job site shall be accompanied by a time slip issued at the batching plant, bearing the time of charging of the mixer drum with the cement and aggregates.
- C. Transporting of Concrete from Mixer to Place of Final Deposit: Transportation shall be done as rapidly as practical by means which shall prevent the separation or loss of the ingredients. If chutes are used, they shall be at a slope not flatter than one vertical to two horizontal. Buggies or carts shall be equipped with pneumatic rubber tires or surfaces of runways shall be sufficiently smooth or both so as not to cause separation or segregation of concrete ingredients. Concrete shall not be allowed to drop freely more than 4 feet. Where greater drops are required, canvas "elephant trunks" or galvanized iron chutes equipped with suitable hopper heads shall be employed and a sufficient number placed to ensure that the concrete may be effectively compacted into horizontal layers not exceeding 12 inches in thickness with minimum lateral movements.
- D. Depositing of Concrete: Depositing of concrete shall:



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1. Proceed continuously after once starting until reaching the end of a section of construction joint location shown on the drawings, or as approved by the Owner. The operations shall be conducted so that no concrete is deposited on concrete sufficiently hardened to cause formation of seams, and planes of weakness.
 2. Be as near as practical to its final position in the forms.
 3. Proceed to maintain constantly a top surface which is approximately level.
 4. Be placed before initial set has occurred, and in no event after it has contained its water content for more than 90 minutes.
 5. Be thoroughly worked and compacted by means of suitable tools to provide impermeability, durability and strength and shall be thoroughly worked around reinforcements and embedded items and into corners of forms and to be free from voids, pockets or honeycombing. Care shall be taken to provide impermeability.
- E. Vibration Equipment: Vibration equipment shall be of the appropriate type and shall, always, be adequate in number of units and power of each unit to properly consolidate all concrete.
- F. Monolithic Pours: Proper delivery of concrete shall be the Contractor's responsibility to make a mono-lithic pour without delays and changes of cold joints.



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9.0 CURING

All concrete work shall be protected from injurious action by the sun, rain, flowing water, frost and other injury and shall be covered with plastic after application of curing compound for three (3) days on pours located above ground.

Contractor shall not remove any formwork for a minimum period of 24 hours after a concrete pour without written approval of the Owner.

10.0 CONCRETE FINISHES

Finishes of all exposed concrete shall be free of defects which impair its durability or adversely affect its appearance. All such surfaces when stripped, shall be uniform in appearance and any surfaces displaying any deviations from adjacent uniform surfaces shall be rejected and subject to removal.

Finished work shall be level and plumb, true to lines, and dimensions. Finished plane surfaces shall be smooth, and as nearly perfect as practical; however, deviations from a true plane shall not exceed 1/8 inch when measured from a 6-foot straight edge placed against the surface to any point on the surface and under the straight edge.

All exposed surfaces shall have defects corrected, protrusions removed, and holes filled.



APPENDIX A PHOTOGRAPHS



Trench Photographs



Trench Photographs



EAST KENTUCKY ENGINEERING, LLC.



SITE PHOTO



EAST KENTUCKY ENGINEERING, LLC.

APPENDIX B SEISMIC



Lucky Branch Tower Site

Latitude, Longitude: 37.967801, -83.304685



Date

5/25/2019, 2:27:31 AM

Design Code Reference Document

IBC-2015

Risk Category

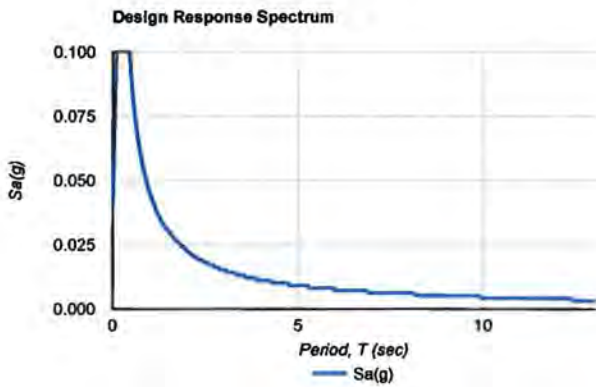
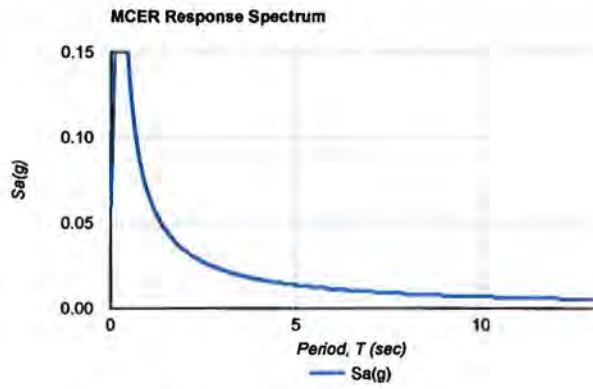
IV

Site Class

A - Hard Rock

Type	Value	Description
S_S	0.188	MCE_R ground motion. (for 0.2 second period)
S_1	0.084	MCE_R ground motion. (for 1.0s period)
S_{MS}	0.15	Site-modified spectral acceleration value
S_{M1}	0.067	Site-modified spectral acceleration value
S_{DS}	0.1	Numeric seismic design value at 0.2 second SA
S_{D1}	0.045	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	A	Seismic design category
F_a	0.8	Site amplification factor at 0.2 second
F_v	0.8	Site amplification factor at 1.0 second
PGA	0.092	MCE_G peak ground acceleration
F_{PGA}	0.8	Site amplification factor at PGA
PGA_M	0.074	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
S_{aRT}	0.188	Probabilistic risk-targeted ground motion. (0.2 second)
S_{aUH}	0.203	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
S_d	1.5	Factored deterministic acceleration value. (0.2 second)
S_{1RT}	0.084	Probabilistic risk-targeted ground motion. (1.0 second)
S_{1UH}	0.093	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S_{1D}	0.6	Factored deterministic acceleration value. (1.0 second)
PGA _d	0.6	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{R8}	0.923	Mapped value of the risk coefficient at short periods
C_{R1}	0.904	Mapped value of the risk coefficient at a period of 1 s



DISCLAIMER

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EAST KENTUCKY ENGINEERING, LLC.

APPENDIX C MAPS

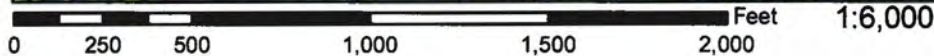
National Flood Hazard Layer FIRMette



37°58'18.26"N



USGS The National Map: Orthoimagery, Data refreshed April, 2019.



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Digital Data Available
MAP PANELS		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

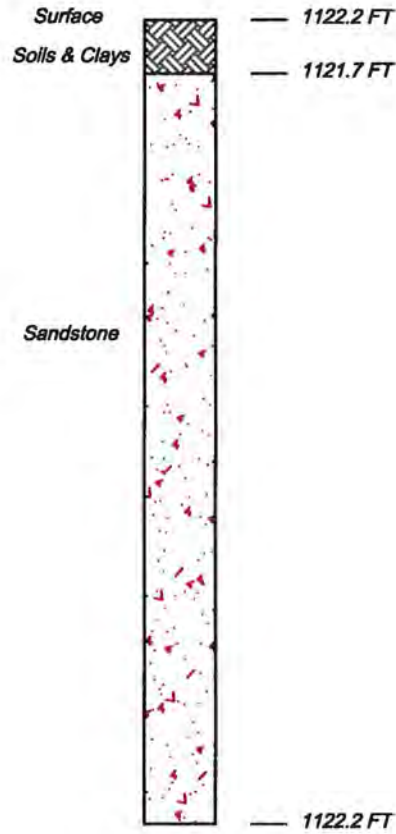
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/6/2019 at 9:54:09 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

83°17'58.14"W

37°57'49.90"N

**GEOLOGIC LOG
(Boring Log)**



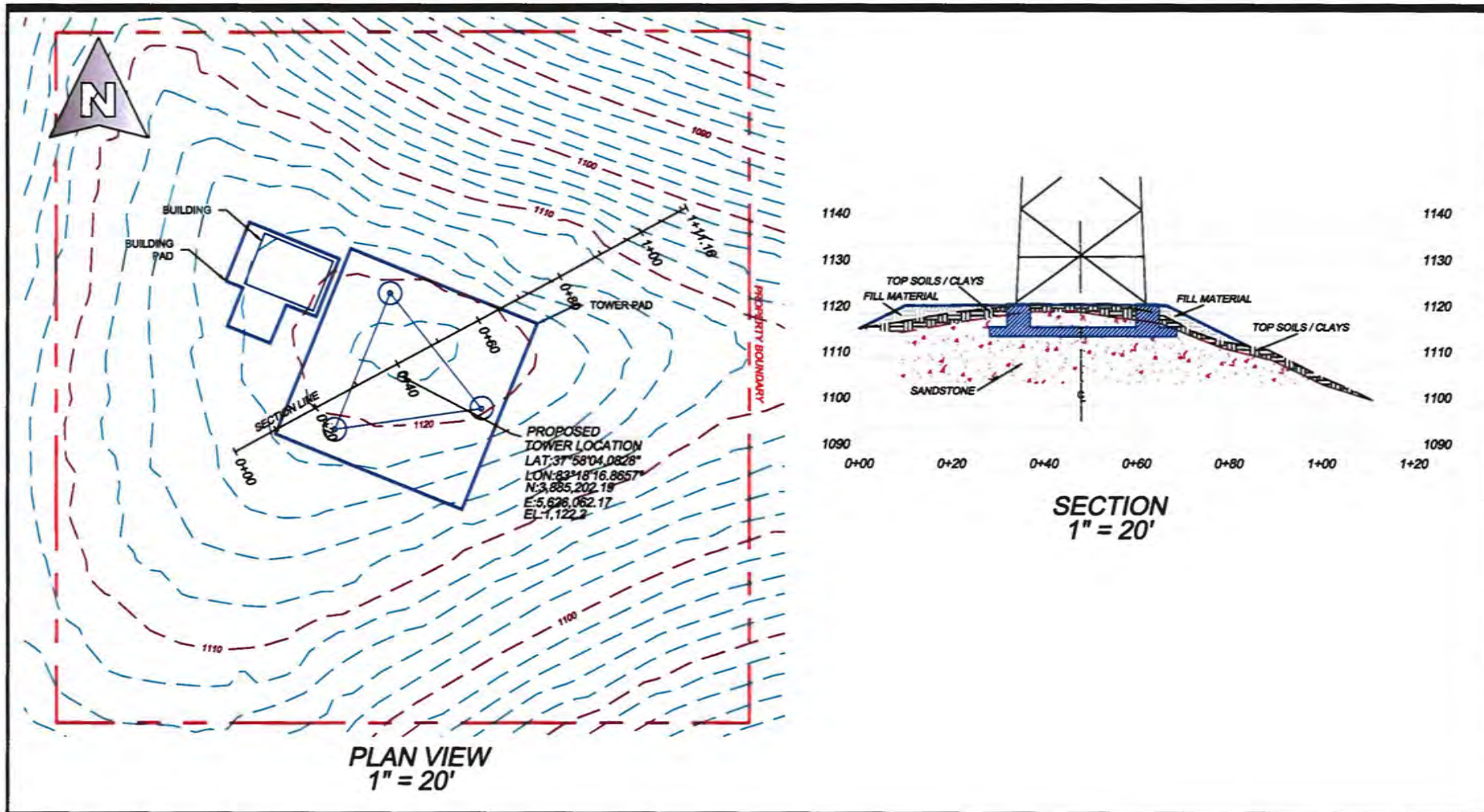
	Date: 8/5/19
Job: 165-80	Scale: 1"= 5'
Drawing: RDS	
Tool Palette EKYENG	

**APPALACHIAN
WIRELESS
LUCKY BRANCH SITE
GEOLOGIC / BORING LOG
MORGAN COUNTY, KENTUCKY**



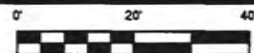
East Kentucky Engineering, LLC

230 Swartz Drive
Hazard, KY 41701
(606) 551-1050



East Kentucky Engineering, LLC

Hazard Location
 230 Swartz
 Hazard, KY 41701
 (606) 551-1050
 Email: rds@ekyeng.net

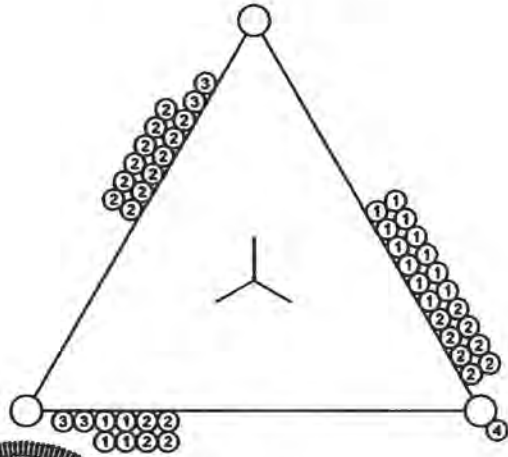
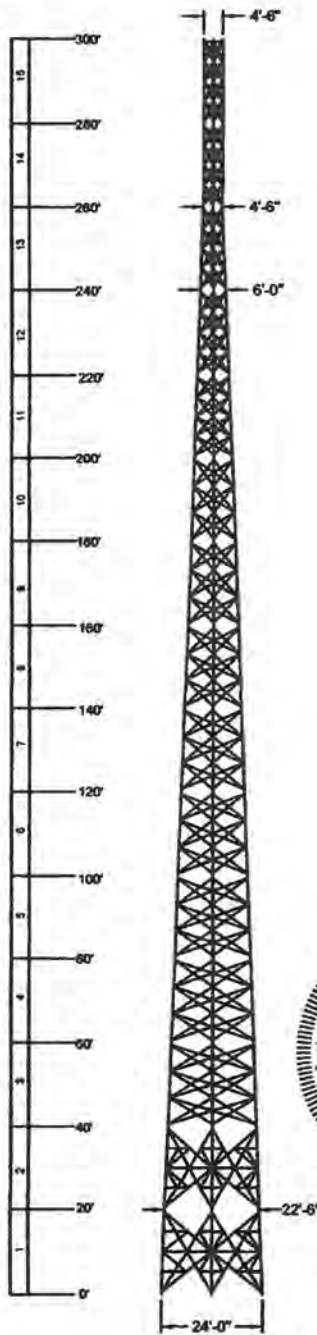


Drawn by: RDS
 5/24/2019
 Job #: 165-0086
 File Location:
 Scale: 1" = 20'

**APPALACHIAN
 WIRELESS
 LUCKY BRANCH SITE
 MORGAN COUNTY, KENTUCKY**

MEMBER INFORMATION

SECTION	ELEVATION	FACE SIZE	LEG DIA.	DIAGONALS	HORIZONTALS	RED. HORZ/DIAGS.	INNER BRACING	GIRTS	# OF BAYS
1	0' - 20'	24'-0"	Ø5"	2L 3" x 3/16"	2L 2 1/2" x 3/16"	2L 2" x 3/16"	2L 2" x 3/16"	N/A	4 - MOD X
2	20' - 40'	22'-6"	Ø5"	2L 3" x 3/16"	2L 2 1/2" x 3/16"	2L 2" x 3/16"	2L 2" x 3/16"	N/A	4 - MOD X
3	40' - 60'	21'-0"	Ø5"	L 4" x 1/4"	N/A	N/A	N/A	N/A	3 - X
4	60' - 80'	19'-6"	Ø4 3/4"	L 4" x 1/4"	N/A	N/A	N/A	N/A	3 - X
5	80' - 100'	18'-0"	Ø4 3/4"	L 3 1/2" x 1/4"	N/A	N/A	N/A	N/A	3 - X
6	100' - 120'	16'-6"	Ø4 1/2"	L 3 1/2" x 1/4"	N/A	N/A	N/A	N/A	3 - X
7	120' - 140'	15'-0"	Ø4 1/2"	L 3" x 1/4"	N/A	N/A	N/A	N/A	3 - X
8	140' - 160'	13'-6"	Ø4 1/4"	L 3" x 3/16"	N/A	N/A	N/A	N/A	3 - X
9	160' - 180'	12'-0"	Ø4"	L 3" x 3/16"	N/A	N/A	N/A	N/A	3 - X
10	180' - 200'	10'-6"	Ø3 3/4"	L 2 1/2" x 3/16"	N/A	N/A	N/A	N/A	3 - X
11	200' - 220'	9'-0"	Ø3 1/4"	L 2" x 3/16"	N/A	N/A	N/A	N/A	4 - X
12	220' - 240'	7'-6"	Ø3"	L 2" x 3/16"	N/A	N/A	N/A	N/A	4 - X
13	240' - 260'	6'-0"	Ø2 3/4"	L 2" x 1/8"	N/A	N/A	N/A	N/A	4 - X
14	260' - 280'	4'-6"	Ø2 1/2"	L 2" x 1/8"	N/A	N/A	N/A	N/A	4 - X
15	280' - 300'	4'-6"	Ø1 3/4"	L 1 1/2" x 1/8"	N/A	N/A	N/A	L 1 1/2" x 1/8"	4 - X



PLAN VIEW

- PLAN VIEW REF:
- 1) 1 5/8" HELIAX
 - 2) 7/8" HYBRID
 - 3) EWS3
 - 4) STEP BOLTS



Keith M. Eaton
6-7-2019

BASE REACTIONS: (FACTORED)
 TOTAL SHEAR = 84 KIPS
 AXIAL LOAD = 247 KIPS
 UPLIFT / LEG = 625 KIPS
 COMP. / LEG = 718 KIPS
 O.T. MOMENT = 14175 FT-K

ANTENNA INFORMATION

ELEVATION	ANTENNA	LINE
295'	(12) NN-65A-M	(6) 1-5/8" HELIAX + (4) 7/8" HYBRID
295'	(12) ERICSSON-2212 (BEHIND ANTENNA)	N/A
285'	(12) NN-65A-M	(6) 1-5/8" HELIAX + (4) 7/8" HYBRID
285'	(12) ERICSSON-2212 (BEHIND ANTENNA)	N/A
275'	(12) NN-65A-M	(4) 7/8" HYBRID
275'	(12) ERICSSON-2212 (BEHIND ANTENNA)	N/A
265'	(12) NN-65A-M	(4) 1-5/8" HELIAX + (4) 7/8" HYBRID
265'	(12) ERICSSON-2212 (BEHIND ANTENNA)	N/A
240'	(2) 6' HP DISH	(2) EWS3
200'	(12) NN-65A-M	(4) 7/8" HYBRID
200'	(12) ERICSSON-2212 (BEHIND ANTENNA)	N/A
190'	(12) NN-65A-M	(4) 7/8" HYBRID
190'	(12) ERICSSON-2212 (BEHIND ANTENNA)	N/A
180'	(2) 8' HP DISH	(2) EWS3

DESIGN NOTES:

- 1) TOWER LEGS ARE CONSTRUCTED OF SOLID ROUND BAR MATERIAL.
- 2) SOLID ROUND 0.75" AND LARGER ASTM A-572 GRADE : 50 KSI MIN.
- 3) SOLID ROUND 0.825" AND SMALLER IS ASTM A-36 GRADE : 36 KSI MIN.
- 4) ALL ANGLE MATERIAL IS ASTM A-529 : 50 KSI MIN.
- 5) ALL BRACE AND FLANGE BOLTS ARE A325-X
- 6) THIS TOWER IS DESIGNED FOR STEP BOLTS UP ONE LEG FOR CLIMBING WITH SAFETY CLIMB DEVICE.
- 7) (6) Ø 1 3/4" x 8'-0" LONG (F1554-GR.105) ANCHOR BOLTS PER LEG.
- 8) THIS TOWER IS DESIGNED FOR A 80 M.P.H. WIND SPEED WITH NO ICE AND A 30 M.P.H. WIND SPEED WITH 0.75" ICE IN ACCORDANCE WITH THE TIA/EIA-222-G STANDARD. ICE IS CONSIDERED TO INCREASE IN THICKNESS WITH HEIGHT.
- 9) DEFLECTIONS BASED ON A 60 M.P.H. WIND.
- 10) TOWER DESIGNED TO EXPOSURE C; STRUCTURE CLASS II; TOPO. CAT 1.

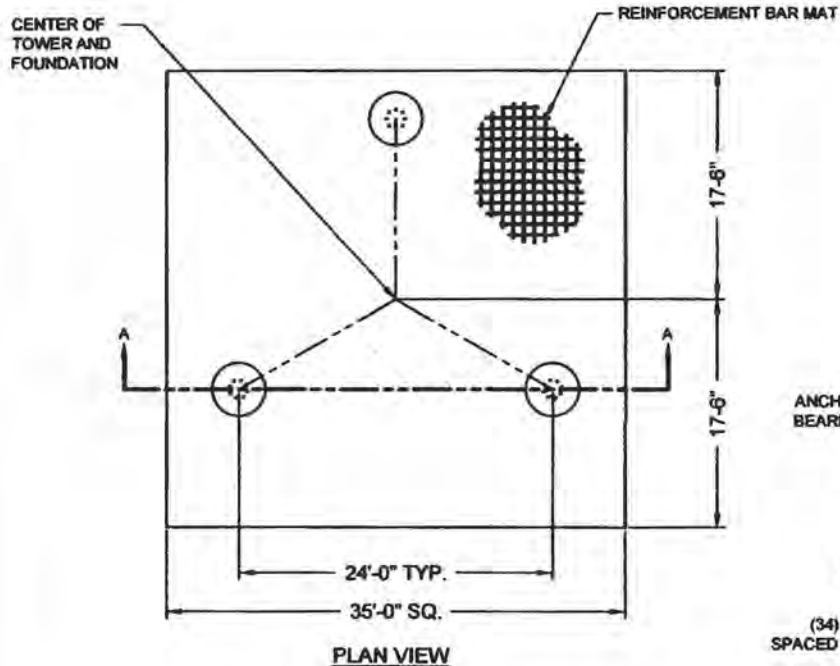
APPROX. WEIGHT
88.6 KIPS

PROPRIETARY STATEMENT: THIS DRAWING IS THE PROPERTY OF ALLSTATE TOWER INC. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT PRIOR WRITTEN CONSENT OF ALLSTATE TOWER INC.

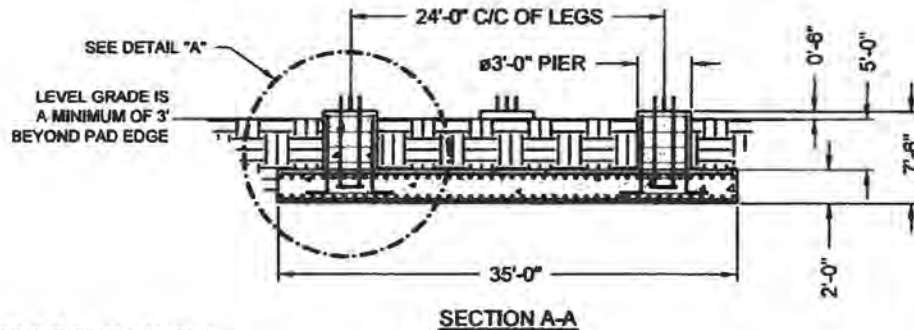
REV #	DESCRIPTION	DATE	BY	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN: INCHES	DESCRIPTION
				TOLERANCE BANDS: X ±.002"/-0 ANGLE ±.2° XX ±.002"/-0 XXX ±.010"/-0 HOLES ±.010"/-0	TOWER OVERVIEW APPALACHIAN WIRELESS LUCKY BRANCH, MORGAN CO., KY 300' SELF SUPPORT TOWER
SCALE:	NTS	DATE:	6/04/2019	FILE NAME:	FT080575A - A
				DESIGN:	FT080575

ALLSTATE TOWER
 ALLSTATE TOWER INC.
 P.O. BOX 25
 HENDERSON, KY 42419
 PHONE: (270) 636-8512
 FAX: (270) 636-8475
 WWW.PTTO.COM

SHEET
A



TOTAL VOLUME OF CONCRETE = 95.1 YD³



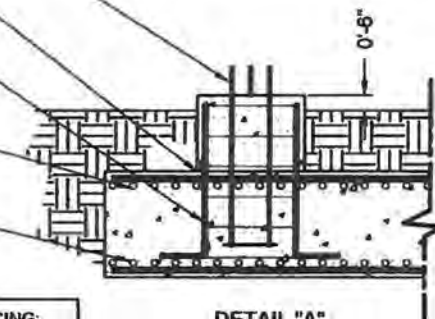
(5) #1 3/4" X 8'-0" OVERALL LENGTH ANCHOR BOLTS (F1554-GR105) W/ 1" THK BEARING PLATE AT THE BOTTOM OF THE ANCHOR BOLT CLUSTER (7'-0" MIN. ANCHOR BOLT EMBEDMENT).

USE EPOXY BONDING AGENT WHEN POURED SEPERATELY

(27) #9 VERTICAL BARS w/ 6" HOOK WITH (6) #5 TIES EQUALLY SPACED

(34) #5 HORIZONTAL BARS x 34'-6" LONG SPACED 12" O.C. EACH WAY AT TOP OF MAT. (TOTAL=68)

(34) #7 HORIZONTAL BARS x 34'-6" LONG SPACED 12" O.C. EACH WAY AT BOTTOM OF MAT. (TOTAL=68)



REINFORCEMENT BAR SPLICING:

- ALL LAP SPLICES SHALL CONFORM TO ACI 318 REQUIREMENTS.
- REFER TO CHART BELOW WHEN REINFORCEMENT BAR SPLICING IS NECESSARY.

REINFORCING BAR SIZE	LAP SPLICE LENGTH
3	15"
4	17"
5	21"
6	25"
7	30"
8	36"
9	48"
10	56"
11	71"



Keith M. Eaton
6-7-2019

FOUNDATION INSTALLATION/DESIGN NOTES:

- THIS FOUNDATION IS DESIGNED TO MEET ALL STANDARDS SET FORTH BY ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ANSI/AIA/EIA 222-G: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- THIS FOUNDATION IS DESIGNED UTILIZING THE GEOTECHNICAL REPORT PERFORMED BY EAST KENTUCKY ENGINEERING, LLC; DATED 5-28-2019; EKYENG PROJECT NO. 165-000-0086. THE FOUNDATION CONTRACTOR SHALL INSTALL THE FOUNDATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- ALL WORK PERFORMED FROM THESE DRAWINGS SHOULD BE BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER FOUNDATION CONSTRUCTION.
- ALL FOOTING EXCAVATIONS SHALL BE MANUALLY CLEANED PRIOR TO PLACING CONCRETE. COMPACT THE EXPOSED SOIL SURFACE AND ANY GRANULAR FILL UNDER THE FOUNDATION TO 90% OF THE MODIFIED PROCTOR DENSITY.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AFTER 28 DAYS. COPIES OF THE CONCRETE CYLINDER TEST REPORTS SHALL BE SENT TO THE RESIDENT ENGINEER / INSPECTOR.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE 3". ALL REINFORCING BARS SHALL BE GRADE 60 REBAR (MIN YIELD = 60KSI).
- FIELD BENDING OR WELDING OF REINFORCEMENT BARS IS NOT PERMITTED.
- PROVIDE CHAMFERS AT ALL EXPOSED CORNERS OF CONCRETE.
- BACKFILL NEAR AND AROUND THE FOUNDATIONS SHALL BE A WELL GRADED FILL MATERIAL PLACED IN 8" THICK LAYERS THAT HAS BEEN COMPACTED TO 90% OF THE MODIFIED PROCTOR DENSITY PER ASTM D1557.
- SOME DETAIL HAS BEEN PURPOSELY OMITTED TO CLARIFY ILLUSTRATION.

ALLSTATE TOWER

ALLSTATE TOWER INC.
P.O. BOX 25
HENDERSON, KY 42419
PHONE: (270) 838-8512
FAX: (270) 838-8475
WWW.PTTO.COM

PROPRIETARY STATEMENT: THIS DRAWING IS THE PROPERTY OF ALLSTATE TOWER INC. IT IS NOT TO BE REPRODUCED OR COPIED IN ANYWAY WITHOUT PRIOR WRITTEN CONSENT OF ALLSTATE TOWER INC.

REV #	DESCRIPTION	DATE	BY	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN: INCHES	DESCRIPTION
				TOLERANCE BANDS X ±.002"/-0 ANGLES ±.2° XX ±.002"/-0 XXX ±.001"/-0 HOLES ±.010"/-0	PAD & PIER FOUNDATION DESIGN APPALACHIAN WIRELESS LUCKY BRANCH, MORGAN CO., KY 300' SELF SUPPORT TOWER
SCALE: NTS				DRAWN BY: RC	FILE NAME: FT080575A - B
				DATE: 6/04/2019	DESIGN: FT080575
					SHEET: B



Notice of Proposed Construction or Alteration - Off Airport

[Add a New Case Off Airport - Desk Reference Guide V_2018 2 1](#)

[Add a New Case \(Off Airport\) for Wind Turbines - Met Towers \(with WT Farm\) - WT-Barge Crane - Desk Reference Guide V_2018 2 1](#)

Project Name: EAST -000521552-19

Sponsor: East Kentucky Network, LLC

Details for Case : Lucky Branch

[Show Project Summary](#)

Case Status

ASN: 2019 ASO-14881 OE
 Status: Accepted

Date Accepted: 04/25/2019
 Date Determined:
 Letters: None
 Documents: 04/25/2019 2C Map.pdf

Public Comments: None

Project Documents:
 None

Construction / Alteration Information

Notice Of: Construction
 Duration: Permanent
If Temporary : Months: Days:
 Work Schedule - Start: 06/01/2019
 Work Schedule - End: 06/30/2019

**For temporary cranes-Does the permanent structure require separate notice to the FAA? To find out, use the Notice Criteria Tool. If separate notice is required, please ensure it is filed. If it is not filed, please state the reason in the Description of Proposal.*

State Filing: Filed with State

Structure Summary

Structure Type: Antenna Tower
 Structure Name: Lucky Branch
 FDC NOTAM:
 NOTAM Number:
 FCC Number:
 Prior ASN:

Structure Details

Latitude: 37° 58' 4.08" N
 Longitude: 83° 18' 16.87" W
 Horizontal Datum: NAD83
 Site Elevation (SE): 1116 (nearest foot) PASSEU
 Structure Height (AGL): 310 (nearest foot)
 Current Height (AGL): (nearest foot)

** For notice of alteration or existing provide the current AGL height of the existing structure. Include details in the Description of Proposal*

Minimum Operating Height (AGL): (nearest foot)
** For aeronautical study of a crane or construction equipment the maximum height should be listed above as the Structure Height (AGL). Additionally, provide the minimum operating height to avoid delays if impacts are identified that require negotiation to a reduced height. If the Structure Height and minimum operating height are the same enter the same value in both fields.*

Requested Marking/Lighting: White-medium intensity

Other :

Recommended Marking/Lighting:

Current Marking/Lighting:

N/A Proposed Structure

Other :

Nearest City: West Liberty
 Nearest State: Kentucky
 Description of Location: West Liberty (Morgan County) near Lucky Branch
 Description of Proposal: A new 300' structure with top-mounted antennas (overall height of 310' AGL)

Proposed Frequency Bands

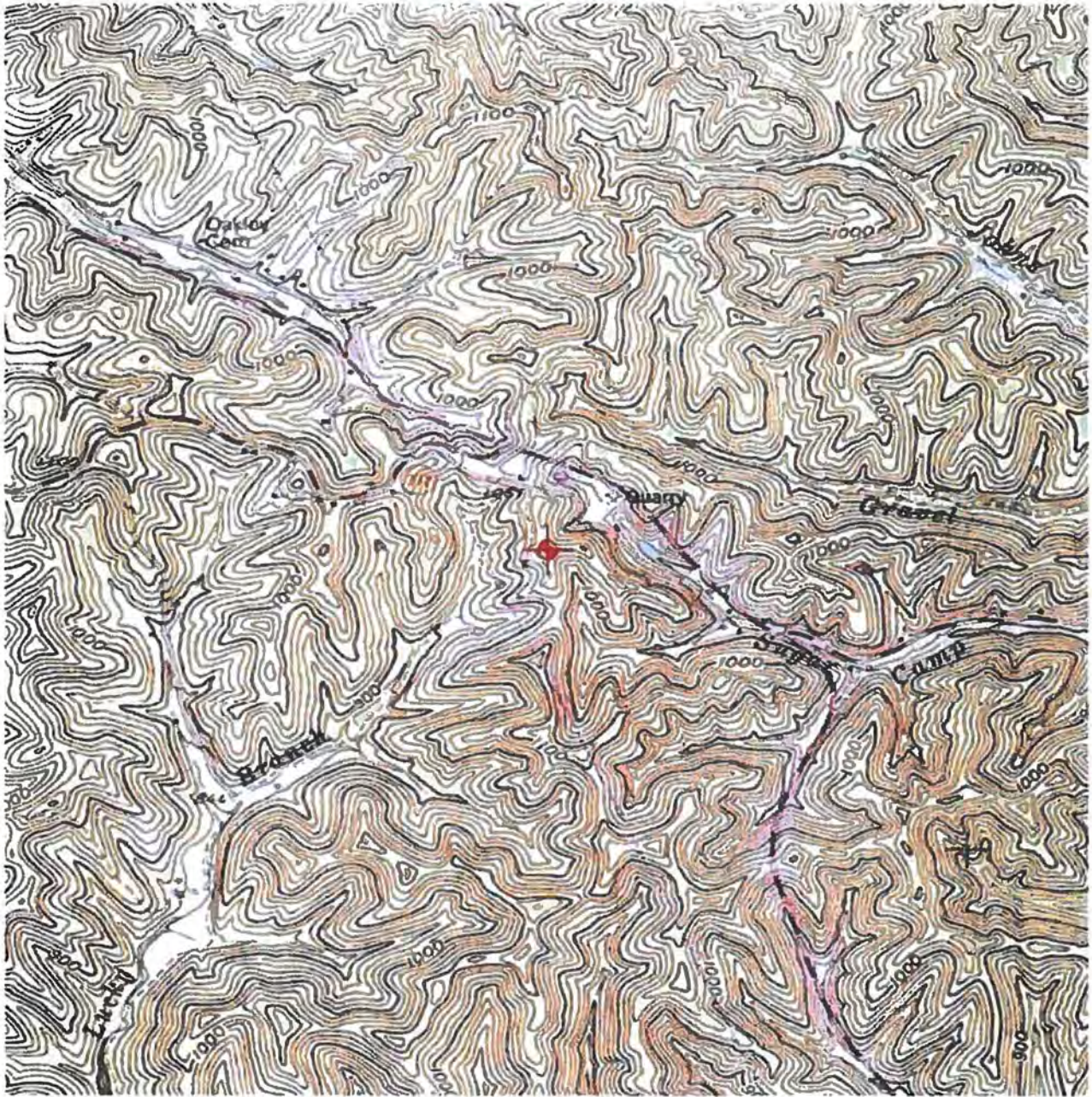
Select any combination of the applicable frequencies/powers identified in the Colo Void Clause Coalition, Antenna System Co-Location, Voluntary Best Practices, effective 21 Nov 2007, to be evaluated by the FAA with your filing. If not within one of the frequency bands listed below, manually input your proposed frequency(ies) and power using the Add Specific Frequency link

Add Specific Frequency

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	606	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

[Previous](#) [Back to Search Results](#) [Next](#)

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KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
Rev. 06/2016
Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) East Kentucky Network, LLC		PHONE 606-339-1006	FAX 606-339-1363	KY AERONAUTICAL STUDY #
ADDRESS (street) 101 Technology Trail		CITY Ivel		STATE Kentucky
ZIP 41642				
APPLICANT'S REPRESENTATIVE (name) Cindy McCarty		PHONE 606-339-1006	FAX 606-339-1363	
ADDRESS (street) 101 Technology Trail		CITY Ivel		STATE Kentucky
ZIP 41642				
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE
DURATION <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start 6/1/19 End 6/30/19
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building		MARKING/PAINTING/LIGHTING PREFERRED		
<input checked="" type="checkbox"/> Antenna Tower		<input type="checkbox"/> Red Lights & Paint <input checked="" type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity		
<input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank		<input type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white		
<input type="checkbox"/> Landfill <input type="checkbox"/> Other		<input type="checkbox"/> Other -		
LATITUDE 37° 58' 04.08" N		LONGITUDE 83° 18' 16.87" W		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27
<input type="checkbox"/> Other				
NEAREST KENTUCKY CityWest Liberty County Morgan		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT West Liberty Airport		
SITE ELEVATION (AMSL, feet) 1116'		TOTAL STRUCTURE HEIGHT (AGL, feet) 310'		CURRENT (FAA aeronautical study #) 2019-ASO-14881-OE
OVERALL HEIGHT (site elevation plus total structure height, feet) 1426'				PREVIOUS (FAA aeronautical study #)
DISTANCE (from nearest Kentucky public use or Military airport to structure) 4.1 nm				PREVIOUS (KY aeronautical study #)
DIRECTION (from nearest Kentucky public use or Military airport to structure) NW				
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) West Liberty (Morgan County) Near Lucky Branch				
DESCRIPTION OF PROPOSAL				
A new 300' structure with top-mounted antennas (overall height of 310' AGL)				
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 04-25-2019				
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)				
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)				
NAME Cindy McCarty	TITLE In-House Counsel	SIGNATURE <i>Cindy McCarty</i>		DATE April 25, 2019
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC		
		<input type="checkbox"/> Administrator, KAZC		
<input type="checkbox"/> Approved	SIGNATURE	DATE		
<input type="checkbox"/> Disapproved				

Lucky Branch Driving Directions

1. Beginning at 261 Court Street, West Liberty, Kentucky head west on Prestonsburg Street approximately .2 miles.
2. Turn right onto KY-7 N/Main Street 2.7 miles.
3. Continue on KY 519-N 2.2 miles.
4. Turn left onto State Highway 772. Drive 0.9 miles and turn left onto McClanahan Hill Road (Lucky Branch Road) and drive approximately .2 miles.
5. Turn right at the gravel road (signs posted)
6. Site location will be .1 mile. (signs posted)

Prepared By:
Daryl Bartley
Appalachian Wireless
(606) 791-0310

Lucky Branch


Location:

429 McClanahan Hill Rd.
West Liberty, KY 41472

Coordinates:

37°58'04.0828"N
83°18'16.8657"W

Legend

 1/2 Mile Search Area



Google Earth

© 2018 Google



2000 ft

LODGED FOR RECORD
MORGAN COUNTY CLERK

APR 23 2019

TIME: 11:30 AM DEED
RANDY WILLIAMS CLERK

\$23-
40-
\$63
PD

(MNB) →

THIS DEED OF CONVEYANCE is made and entered into this 18th day of April
_____, 2019, by and between NATHANIEL LEE WHITT, an individual, whose address is
1781 Hwy 519, West Liberty, Kentucky 41472 (hereinafter referred to as "Grantor"), and EAST
KENTUCKY NETWORK, LLC D/B/A APPALACHIAN WIRELESS, a Kentucky limited
liability company (hereinafter referred to as "Grantee"), whose address is 101 Technology Trail,
Ivel, Kentucky 41642, which is also the "in care of" address to which the property tax bill for 2019
should be sent.

WITNESSETH

That for and in consideration of the sum of Forty Thousand and 00/100 Dollars
(\$40,000.00), cash in hand paid, the receipt and sufficiency of which are hereby acknowledged,
Grantor does hereby GRANT, SELL, and CONVEY to the Grantee, its successors and assigns,
that certain real property located off Highway 519 near Lucky Branch in West Liberty, Morgan
County, Kentucky, which is more particularly described in the Lot Description **attached** hereto
and made a part herein as **Exhibit A** and depicted on the plat **attached** hereto and made a part
herein as **Exhibit B**, prepared by James W. Caudill, Licensed Professional Land Surveyor
(hereinafter referred to as the "Property"), along with an access road easement, which is also
described on Exhibit A and depicted on Exhibit B.

Being a portion of the same property conveyed to Grantor by Pamela Sedger and husband,
John Sedger, by Deed dated January 22, 2007, and recorded in the Morgan County Clerk's Office
in Deed Book 207, Page 717. For further source of title, see also Affidavit of Descent of Sanford
Whitt, Jr. recorded January 30, 2007, of record in the Morgan County Clerk's Office in Deed Book
207, Page 715.

Grantor also conveys to Grantee a right of way and easement to construct, maintain and operate telephone, fiber, and/or power transmission lines and poles under, over, and across Grantor's property, said lines and poles to be located where feasible along the access road to the Property.

TO HAVE AND TO HOLD the same with all appurtenances and privileges thereunto belonging unto the Grantee, its successors and assigns forever, with covenant of GENERAL WARRANTY.

CONSIDERATION CERTIFICATE

The parties to this deed certify that the consideration reflected in this deed is the full consideration paid for the property and understand that falsification of the stated consideration is a class D felony, subject to one to five years imprisonment and fines up to \$10,000.00.

IN TESTIMONY WHEREOF, the parties have hereunto subscribed their names as of the date set forth herein.

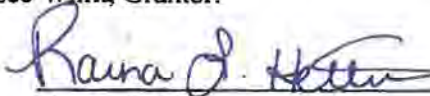
GRANTOR:



NATHANIEL LEE WHITT

COMMONWEALTH OF KENTUCKY
COUNTY OF Morgan

The foregoing instrument was acknowledged before me on this 12th day of April, 2019, by Nathaniel Lee Whitt, Grantor.



Notary Public

My Commission Expires Feb 6, 2020



GRANTEE:
EAST KENTUCKY NETWORK, LLC D/B/A
APPALACHIAN WIRELESS

WA Gillum

By: W.A. Gillum
Its: CEO/General Manager

COMMONWEALTH OF KENTUCKY
COUNTY OF Floyd

The foregoing instrument was acknowledged before me on this 18th day of April, 2019, by W.A. Gillum, CEO/General Manager of East Kentucky Network, LLC d/b/a Appalachian Wireless, Grantee.

Raina L. Helton
Notary Public

My Commission Expires Feb. 6, 2020



This is to certify that this
instrument was prepared by:

Krystal Branham

Krystal Branham, Attorney
101 Technology Trail
Ivel, Kentucky 41642
606-477-2355

LOT DESCRIPTION
Property of
Nathaniel Lee Whitt
c/o Roberta Fugett
P.O. Box 101
Wellington, KY 40387
Off Highway 519 Near Lucky Branch
in Morgan County, KY
February 13, 2019



A certain tract or parcel of land lying and being in Morgan County, Kentucky, and being a portion of the property conveyed to Nathaniel Lee Whitt from Pamela Sedger and John Sedger, her husband, by deed of conveyance dated January 22, 2007 and of record in Deed Book 207, Page 717, records of the Morgan County Court Clerk's Office. Also being a portion of the property conveyed to Nathaniel Lee Whitt inherited Sanford Whitt, Jr. by will dated January 30, 2007 and of record in Deed Book 207, Pages 715 & 717, records of the Morgan County Court Clerk's Office. Said property being more particularly described as follows:

Lot 1A

Beginning at a set iron pin with cap marked LS#2259 on hillside, which bears South 25 deg 34 min 48 sec East, a distance of 375.70 feet, from a found metal "I" beam set in ground on the property line dividing Nathaniel Lee Whitt (Deed Book 207 Page 717) and Terry and Dawn Cox (Deed Book 228 Page 449); thence around the hillside North 89 deg 54 min 27 sec East, a distance of 150.01 feet to a set iron pin with cap marked LS#2259 on hillside; thence continuing around the hillside South 00 deg 00 min 36 sec West, a distance of 150.22 feet to a set iron pin with cap marked LS#2259 on hillside; thence continuing around the hillside North 89 deg 58 min 57 sec West, a distance of 149.93 feet to a set iron pin with cap marked LS#2259 on hillside; thence continuing around the hillside North 00 deg 01 min 16 sec West, a distance of 149.93 feet to the point of the beginning. Containing a calculated area of 22507.4 square feet or 0.52 acres.

Also to be included is a right of way for an access road from the public road to Lot 1A partly along the existing road labeled as old county road on the plat to a point south of the lot and a proposed new section of road up the hill from the existing road to the lot as shown on plat. Also to be included is a right to install fiber and utility lines in or along said access road and/or such other location to be agreed upon by the parties.

Unless stated otherwise, any monument referred to herein as "set iron pin with cap" is a set 1/2" diameter rebar, at least eighteen (18") in length, with a plastic cap stamped "LS-2259". All bearings stated herein are referred to NAD83, KY single zone of the Kentucky state plane system.

This survey was performed on February 13, 2019 by James W. Caudill, a Kentucky Licensed Professional Land Surveyor No. 2259.



James W. Caudill
James W. Caudill, PLS #2259
H-10-19

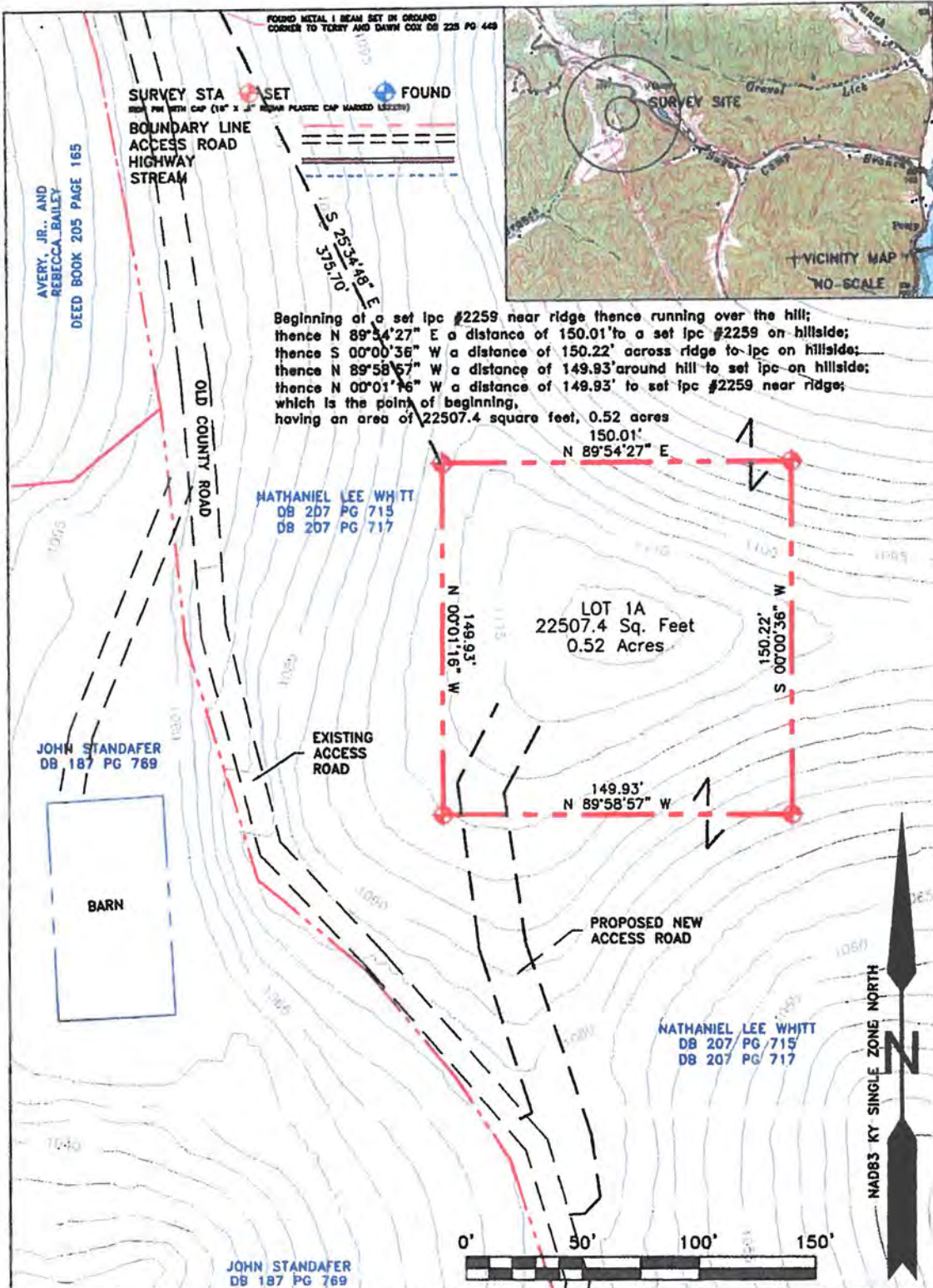


EXHIBIT
 B

STATE OF KENTUCKY
JAMES W. CAUDILL
 2259
 LICENSED PROFESSIONAL LAND SURVEYOR

URBAN CLASS SURVEY
 I HEREBY CERTIFY THAT THIS PLAT DEPICTS A SURVEY, MADE BY ME, BY THE METHOD OF RANDOM TRAVERSE. THE BEARINGS SHOWN HEREON HAVE NOT BEEN ADJUSTED FOR CLOSURE. THIS SURVEY AND PLAT MEETS OR EXCEEDS THE MINIMUM STANDARDS OF GOVERNING AUTHORITIES. THE UNADJUSTED ERROR OF CLOSURE WAS > 1 IN 10000.

James W. Caudill
 NAME: **James W. Caudill** PLS# 2259 DATE: 04/10/19

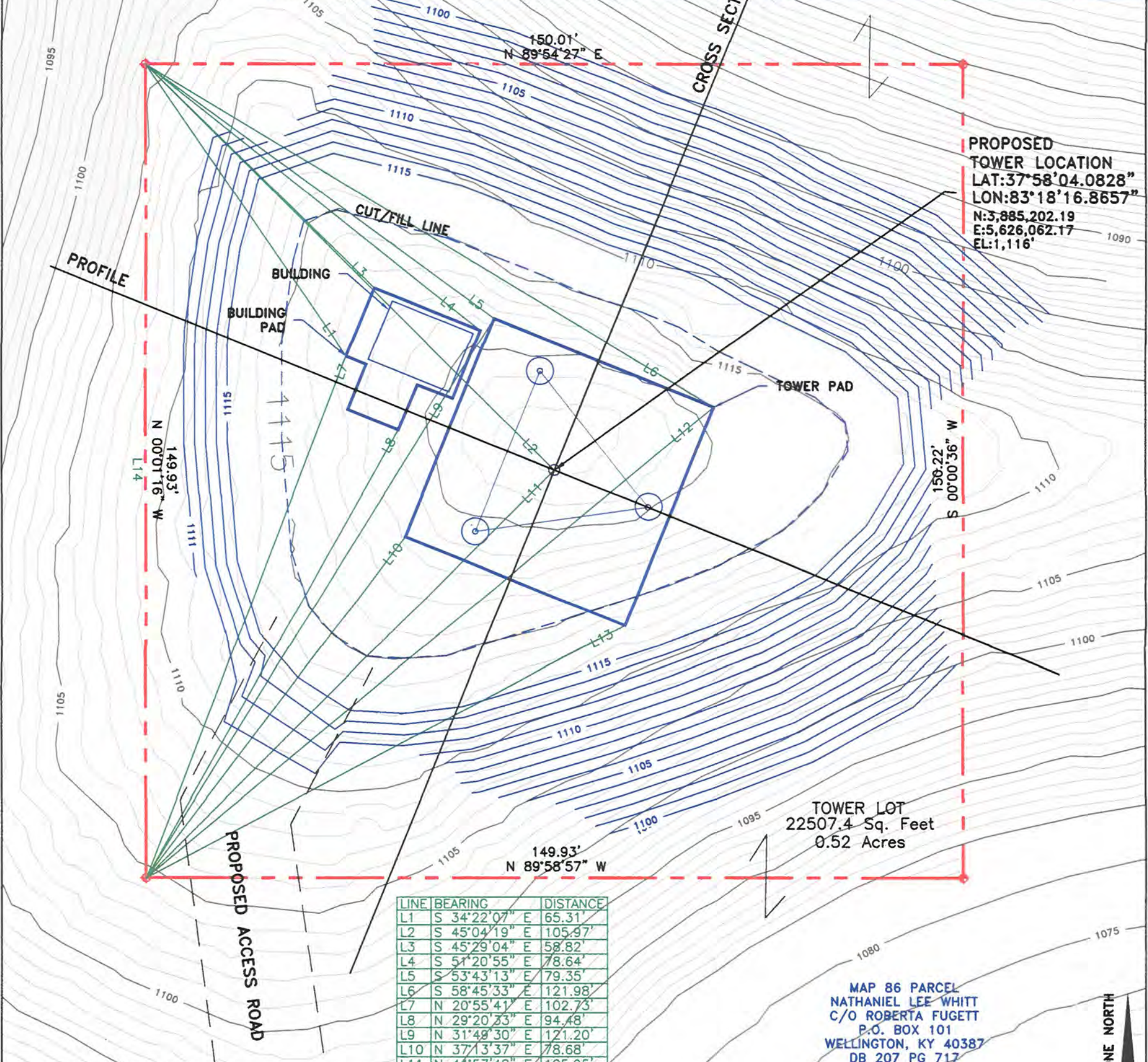
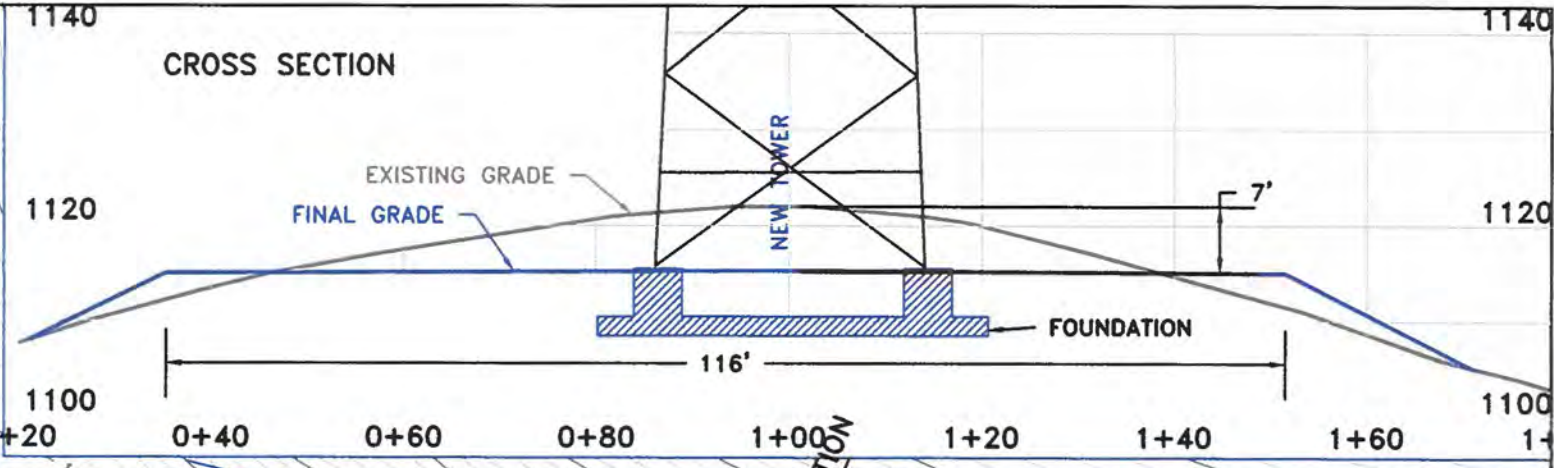
PLAT OF SURVEY		
DRAWN JWC	DATE 02/13/19	SUBDIVISION OF THE PROPERTY OF NATHANIEL LEE WHITT LUCKY BR. IN MORGAN CO DEED BOOK 207 PAGE 715 & 717
APPROVED	DATE 04/10/19	
SCALE 1" = 50'	SHEET 1 OF 1	SURVEYED BY JAMES W. CAUDILL LS2259 2699 PERKINS/MADGEN ROAD AMBURG, KY 41773 PHONE 606-642-3217

STATE OF KENTUCKY
COUNTY OF MORGAN

I, Randy Williams, Clerk Morgan County for the county and state
do hereby certify that the foregoing Deed was on the
23 day of April, 2019 lodged for record, whereupon
the foregoing and this certificate have been duly recorded by my office.
Given under my hand this 23 day of April, 2019
Randy Williams, Clerk

By: Jennifer Whitaker
Deed Book 240
Page 195

APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
 PROPOSED TOWER SITE
 OFF HWY 519 NEAR LUCKY BRANCH
 IN MORGAN COUNTY, KY.



PROPOSED
 TOWER LOCATION
 LAT: 37° 58' 04.0828"
 LON: 83° 18' 16.8657"
 N: 3,885,202.19
 E: 5,626,062.17
 EL: 1,116'

TOWER LOT
 22507.4 Sq. Feet
 0.52 Acres

LINE	BEARING	DISTANCE
L1	S 34° 22' 07" E	65.31'
L2	S 45° 04' 19" E	105.97'
L3	S 45° 29' 04" E	58.82'
L4	S 51° 20' 55" E	78.64'
L5	S 53° 43' 13" E	79.35'
L6	S 58° 45' 33" E	121.98'
L7	N 20° 55' 41" E	102.73'
L8	N 29° 20' 33" E	94.48'
L9	N 31° 48' 30" E	121.20'
L10	N 37° 13' 37" E	78.68'
L11	N 44° 57' 48" E	105.95'
L12	N 50° 14' 51" E	135.43'
L13	N 62° 12' 32" E	99.39'
L14	N 00° 01' 16" W	149.93'

MAP 86 PARCEL
 NATHANIEL LEE WHITT
 C/O ROBERTA FUGETT
 P.O. BOX 101
 WELLINGTON, KY 40387
 DB 207 PG 717
 DB 207 PG 715

LEGEND

SURVEY STA	SET	FOUND
IRON PIN WITH CAP (18" x .5" REBAR PLASTIC CAP MARKED LS2259)	+	⊕
BOUNDARY LINE	---	
ACCESS ROAD	---	
POWER LINE	---	

"I certify that the latitude 37° 58' 04.0828"N and longitude 83° 18' 16.8657"W are within +/- 50 feet horizontally; and the site elevation 1116.0 ft. MSL, is within +/- 20 feet vertically. With a structure height of 300 ft AGL, the overall height is 1416 ft, AMSL. The horizontal datum (coordinates) is in terms of the North American Datum Of 1983 (NAD 83). The vertical datum heights are in terms of the North American Vertical Datum of 1988, and are determined to the nearest foot."

SIGNED: *James W. Caudill* PE 12305 LS 2259 04/15/19
 PRINTED: JAMES W. CAUDILL PE #12305 & LS #2259

STATE OF KENTUCKY
JAMES W. CAUDILL
 2259
 LICENSED PROFESSIONAL LAND SURVEYOR

STATE OF KENTUCKY
 James W. Caudill
 12305
 LICENSED PROFESSIONAL ENGINEER

-THE PROPOSED TOWER HAS BEEN LOCATED USING DUAL FREQUENCY GPS UNIT PROCESSED BY "OPUS"
 -STATE PLANE COORDINATES NAD 83 KY SINGLE ZONE N:3885202.19, E:5626062.17, EL 1115' FINAL GRADE TOP OF FOUNDATION EL 1116'-TOP TOWER EL 1416'
 -PRECISION: HORIZONTAL=50' VERTICAL=20'
 -THIS SURVEY MEETS OBSTACLE ACCURACY CODE 2C.
 -PROPERTY LINE INFORMATION TAKEN FROM DEEDS



PROPOSED SITE PLAN & STRUCTURE LOCATION
APPALACHIAN WIRELESS

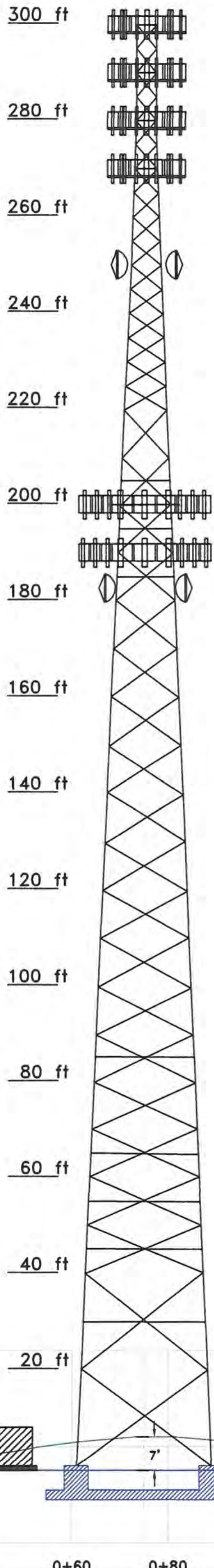
DRAWN JWC	DATE 04/15/19	NATHANIEL WHITT TRACT SITE PLAN
APPROVED	DATE 04/15/19	LUCKY BRANCH TOWER IN MORGAN COUNTY, KY.
SCALE 1" = 20'	SHEET 2 OF 3	PROJECT NO. luckybranch/luckybr20_2c

Filing
CONTAINS
LARGE OR OVERSIZED
MAP(S)

RECEIVED ON:
(08/29/2019)

APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY 41642
 PROPOSED TOWER SITE
 NEAR LUCKY BRANCH
 IN MORGAN COUNTY, KY

PROPOSED SITE PLAN AND STRUCTURE LOCATION LUCKY BRANCH TOWER APPALACHIAN WIRELESS		
DRAWN JWC	DATE 04/15/19	NATHANIEL WHITT TR. OFF HIGHWAY 519 NEAR LUCKY BRANCH AND SUGAR CAMP BR, IN MORGAN COUNTY, KY
APPROVED	DATE	
SCALE 1" = 20'	SHEET 3 OF 3	PROJECT NO. LUCKY BRANCH/LBPRO20



PROFILE WITH TOWER

THIS IS A VERTICAL PROFILE SKETCH OF THE TOWER INDICATING THE PROPOSED ANTENNA AND DISH ELEVATIONS. NO DESIGN CRITERIA WAS CONSIDERED IN THE PREPARATION OF THIS DRAWING.



James W. Caudill 12305 04/15/19
 JAMES W. CAUDILL PE #. DATE

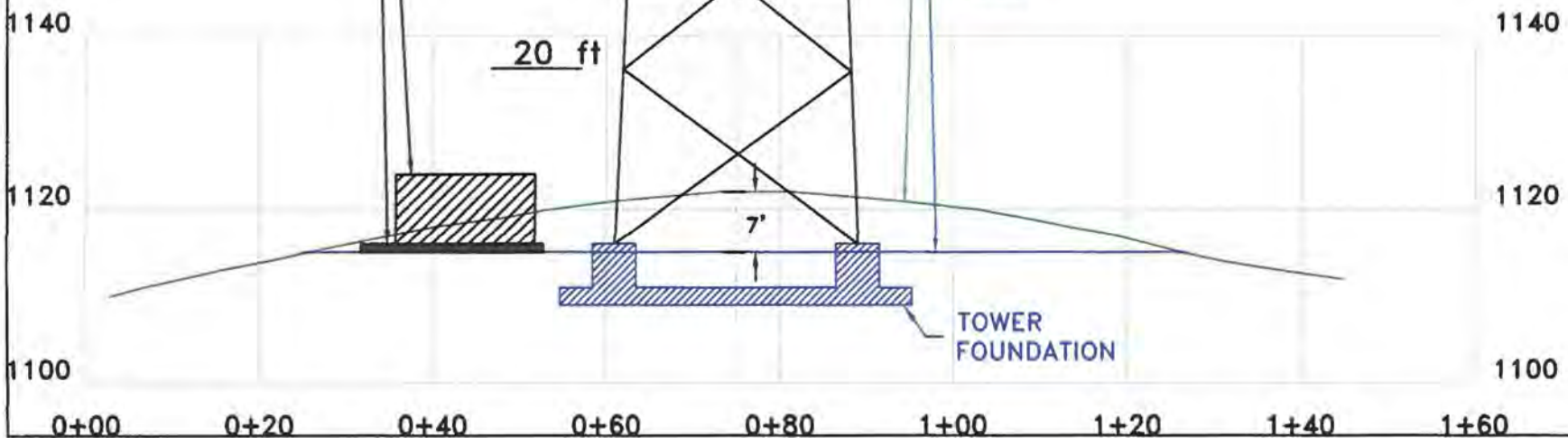
PRELIMINARY DESIGN
 NOTE: FOUNDATION AND TOWER DIMENSIONS ARE ESTIMATED FOR PLANNING PURPOSES. DRAWING WILL BE REVISED WHEN DESIGNS ARE FINALIZED.
 NOTE: SEE FOUNDATION DRAWINGS FOR DETAILS

04/15/19
 SCALE 1" = 20'



BUILDING
 BUILDING FOUNDATION

EXISTING GRADE
 FINAL GRADE



Utility ID	Utility Name	Utility Type	Class	City	State
4107900	365 Wireless, LLC	Cellular	D	Atlanta	GA
4109300	Access Point, Inc.	Cellular	D	Cary	NC
4108300	Air Voice Wireless, LLC	Cellular	A	Bloomfield Hill	MI
4110650	Alliant Technologies of KY, L.L.C.	Cellular	C	Morristown	NJ
44451184	Alltel Communications, LLC	Cellular	A	Basking Ridge	NJ
4110850	AltaWorx, LLC	Cellular	C	Fairhope	AL
4107800	American Broadband and Telecommunications Company	Cellular	C	Toledo	OH
4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
4110700	Andrew David Balholm dba Norcell	Cellular	C	Clayton	WA
4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
4108750	Blue Jay Wireless, LLC	Cellular	C	Carrollton	TX
4111050	BlueBird Communications, LLC	Cellular	C	New York	NY
4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
4107600	Boomerang Wireless, LLC	Cellular	B	Hiawatha	IA
4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
4110050	CampusSims, Inc.	Cellular	D	Boston	MA
4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4106600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
4111000	ComApp Technologies LLC	Cellular	C	Melrose	MA
4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
4001900	CTC Communications Corp. d/b/a EarthLink Business I	Cellular	D	Grand Rapids	MI
10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivei	KY
4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
4109600	Google North America Inc.	Cellular	A	Mountain View	CA
33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4110600	Horizon River Technologies, LLC	Cellular	C	Atlanta	GA
4103100	i-Wireless, LLC	Cellular	A	Newport	KY
4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	OK
22215360	KDDI America, Inc.	Cellular	D	New York	NY
10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
4109750	Konatel, Inc. dba telecom.mobi	Cellular	D	Johnstown	PA
4110900	Lunar Labs, Inc.	Cellular	C	Detroit	MI
4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
10900	New Par dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS

4001800	OnStar, LLC	Cellular	A	Detroit	MI
4110750	Orvoy Spectrum, LLC	Cellular	C	Plymouth	MN
4109050	Patriot Mobile LLC	Cellular	D	Southlake	TX
4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
4202100	Powertel/Memphis, Inc. dba T-Mobile	Cellular	A	Bellevue	WA
4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
4108700	Ready Wireless, LLC	Cellular	B	Hiawatha	IA
4110500	Republic Wireless, Inc.	Cellular	D	Raleigh	NC
4111100	ROK Mobile, Inc.	Cellular	C	Culver City	CA
4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Freemont	NE
4106300	SI Wireless, LLC	Cellular	A	Carbondale	IL
4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
4002500	TAG Mobile, LLC	Cellular	D	Carrollton	TX
4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	South Portland	ME
4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
4108900	Telrite Corporation dba Life Wireless	Cellular	D	Covington	GA
4108450	Tempo Telecom, LLC	Cellular	D	Kansas City	MO
4109950	The People's Operator USA, LLC	Cellular	D	New York	NY
4109000	Ting, Inc.	Cellular	A	Toronto	ON
4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
4002000	Truphone, Inc.	Cellular	D	Durham	NC
4110300	UVNV, Inc.	Cellular	D	Costa Mesa	CA
4105700	Virgin Mobile USA, L.P.	Cellular	A	Atlanta	GA
4110800	Visible Service LLC	Cellular	C	Lone Tree	CO
4106500	WIMacTel, Inc.	Cellular	D	Palo Alto	CA
4110950	Wing Tel Inc.	Cellular	C	New York	NY
4109900	Wireless Telecom Cooperative, Inc. dba theWirelessFreeway	Cellular	D	Louisville	KY