

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

RECEIVED

SEP 14 2016

PUBLIC SERVICE
COMMISSION

In the matter of:

THE APPLICATION OF EAST KENTUCKY NETWORK)
LIMITED LIABILITY COMPANY FOR THE ISSUANCE)
OF A CERTIFICATE OF PUBLIC CONVENIENCE AND) CASE NO. 2016-00297
NECESSITY TO CONSTRUCT A TOWER IN JACKSON)
COUNTY, KENTUCKY.)

East Kentucky Network, LLC d/b/a Appalachian Wireless was granted authorization to provide cellular service in the KY-10 Cellular Market Area (CMA452) by the Federal Communications Commission (FCC). The 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 Commonwealth of Kentucky.

In an effort to improve service in Jackson 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 self-supporting tower on a tract of land located at 2435 Highway 89 South, McKee, Kentucky 40447 (37°24'42.4746"N 84°02'00.0875"W). A map and detailed directions to the site can be found in Exhibit 7.

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(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.

Jackson County has no formal local planning unit. In absence of this unit, the Jackson 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. They were 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 Jackson County Sun, September 15, 2016, edition. Enclosed is a copy of that notice in Exhibit 3. The Jackson County Sun is the newspaper with the largest circulation in Jackson 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 World Tower 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 Approvals 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 September 13, 2016, and will remain posted for at least two weeks after filing of this application as specified.

Enclosed in Exhibit 8 is a copy of East Kentucky Network, LLC's Memorandum of Lease for the site location along with a lot description.

The proposed construction site is on a forested mountaintop some feet from the nearest structure.

Due to the steep hillside surrounding the proposed site, the property in close proximity is unsuitable for any type of development. 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 11 contains a vertical sketch of the tower supplied by James W. Caudill, Kentucky registered professional engineer.

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 Cindy McCarty, Staff Attorney for 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: 9-13-2016
Lynn Haney, Regulatory Compliance Director

APPROVED BY: W.A. Gillum DATE: 9-13-2016
W.A. Gillum, General Manager

ATTORNEY: Cindy McCarty DATE: 9-13-2016
Hon. Cindy McCarty, 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

Cindy McCarty, Attorney
Phone: (606) 477-2355, Ext. 1006
Email: cmccarty@ekn.com

Mailing Address:

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

1	FCC License
2	Copies of Cell Site Notices to Land Owners
3	Notification of County Judge Executive and Newspaper Advertisement
4	Universal Soil Bearing Analysis
5	Tower Design
6	FAA and KAZC Approvals
7	Driving Directions from County Court House and Map to Suitable Scale
8	Memorandum of Lease for Proposed Site with Legal Description
9	Survey of Site Signed/Sealed by Professional Engineer Registered in State of Kentucky
10	Site Survey Map with Property Owners Identified in Accordance with PVA of County
11	Vertical Profile Sketch of Proposed Tower
12	

ULS License

Cellular License - KNKN809 - East Kentucky Network, LLC d/b/a Appalachian Wireless

Call Sign	KNKN809	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular
Market			
Market	CMA452 - Kentucky 10 - Powell	Channel Block	B
Submarket	0	Phase	2
Dates			
Grant	08/30/2011	Expiration	10/01/2021
Effective	08/30/2011	Cancellation	

Five Year Buildout Date

10/17/1996

Control Points

1 US Route 23, FLOYD, Harold, KY
P: (606)478-2355

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 Gerald Robinette, Manager
P:(606)477-2355
F:(606)874-7551

Contact

Lukas, Nace, Gutierrez & Sachs, LLP
Pamela L Gist Esq
8300 Greensboro Drive
McLean, VA 22102
P:(703)584-8665
F:(703)584-8695
E:pgist@fcclaw.com

Ownership and Qualifications

Radio Service Mobile
Type

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.

EXHIBIT II: 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

Larry Clay Halcomb and Deborah Ann McDonald
3016 Riverside Dr.
Danville, KY 40422

Randy and Teresa Whicker
7291 Hwy 421 S
McKee, KY 40447

J.B. Morris Heirs
c/o Glenn Morris
3368 Hwy 421 N
McKee, KY 40447

Daniel Boone National Forest Tract C-2
c/o London Ranger Station
761 S. Laurel Road
London, KY 40744

Harold Baldwin
460 Hershel Gabbard Rd.
McKee, KY 40447

Barbara McQueen
PO Box 724
McKee, KY 40447

Bernice Halcomb, Et. Al.
520 Stoneybrook Dr.
Danville, KY 40422



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

Larry Clay Halcomb and Deborah Ann McDonald
3016 Riverside Dr.
Danville, KY 40422

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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 Jackson 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 2435 HWY 89 South, McKee, Jackson County, Kentucky. 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. 2016-00297 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 cursive script that reads "Lynn Haney".

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

EAST KENTUCKY NETWORK
101 TECHNOLOGY TRAIL
IVEL, KY 41642
(606) 874-7550
(606) 874-7551



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

Randy and Teresa Whicker
7291 Hwy 421 S
McKee, KY 40447

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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 Jackson 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 2435 HWY 89 South, McKee, Jackson County, Kentucky. 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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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 black ink that reads "Lynn Haney". The signature is written in a cursive, flowing style.

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

J.B. Morris Heirs
c/o Glenn Morris
3368 Hwy 421 N
McKee, KY 40447

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

EAST KENTUCKY NETWORK
101 TECHNOLOGY TRAIL
IVEL, KY 41642
(606) 874-7550
(606) 874-7551

EAST KENTUCKY
NETWORK



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

Daniel Boone National Forest Tract C-2
c/o London Ranger Station
761 S. Laurel Road
London, KY 40744

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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Sincerely,

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

Harold Baldwin
460 Hershel Gabbard Rd.
McKee, KY 40447

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

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101 TECHNOLOGY TRAIL
IVEL, KY 41642
(606) 874-7550
(606) 874-7551



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

Barbara McQueen
PO Box 724
McKee, KY 40447

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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Regulatory Compliance Director
Enclosure 1

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101 TECHNOLOGY TRAIL
IVEL, KY 41642
Tel: (606) 874-7550
Fax: (606) 874-7551

EAST KENTUCKY
NETWORK



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

September 12, 2016

Bernice Halcomb, Et. Al.
520 Stoneybrook Dr.
Danville, KY 40422

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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Sincerely,

Lynn Haney, CPA
Regulatory Compliance Director
Enclosure 1

Appalachian Wireless Location Map



Site Name

Indian CreekSite

Location

2435 HWY. 89 South McKee, KY.

GPS Location

N 37 24 42.4746

W 84 02 00.0875

EAST KENTUCKY NETWORK
101 TECHNOLOGY TRAIL
IVEL, KY 41642
PHONE (606) 874-7550
FAX (606) 874-7551



VIA: U.S. CERTIFIED MAIL

September 12, 2016

William O. Smith
P.O. Box 175
McKee, KY 40447

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2016-00297)

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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. in your correspondence.

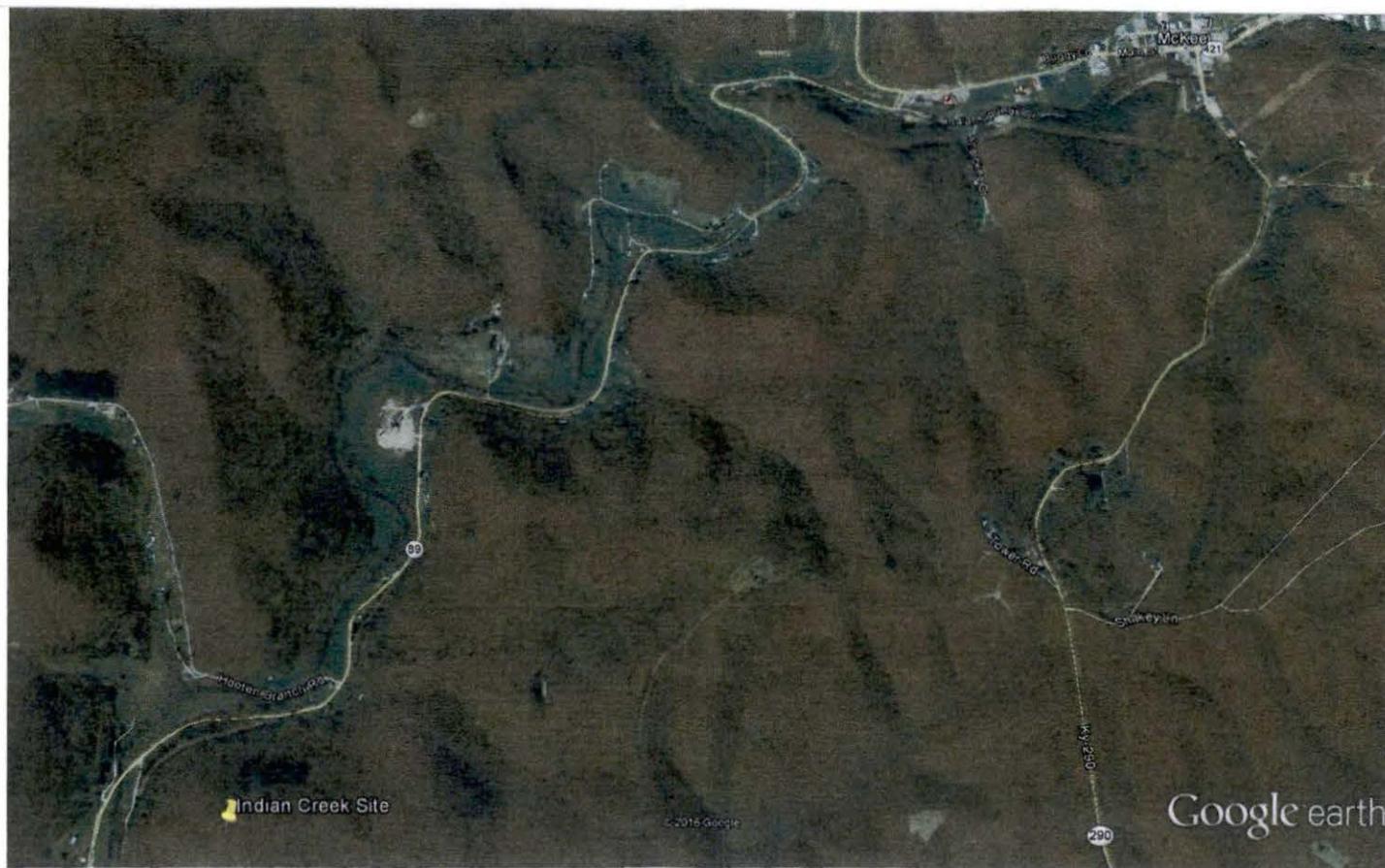
If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, Ivel, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

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Lynn Haney, CPA
Regulatory Compliance Director
Enclosure

Appalachian Wireless Location Map



Site Name

Indian CreekSite

Location

2435 HWY. 89 South McKee, KY.

GPS Location

N 37 24 42.4746

W 84 02 00.0875

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

EAST KENTUCKY
NETWORK



To: The Jackson County Sun
Attn: Classifieds

From: Krystal Branham
Staff Attorney

Email: tammy@thejacksoncountysun.com

Date: September 6, 2016

Re: PUBLIC NOTICE ADVERTISEMENT

Pages: 1

Please place the following Public Notice Advertisement in The Jackson County Sun to be ran on September 15, 2016.

PUBLIC NOTICE:

RE: Public Service Commission of Kentucky (CASE NO. 2016-00297)

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 2435 Hwy 89 South, McKee, Jackson 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. 2016-00297.

If you have any questions about the placement of the above mentioned notice, please call me at 606-477-2375, ext. 1009.

Thank you,

Krystal Branham
Staff Attorney

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.

APPALACHIAN WIRELESS
Geotechnical Investigation on the
Indian Creek Tower Site
Jackson County, Kentucky
ERMC² Project No. 165-000-0027

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

PREPARED BY:
Richard Dirk Smith PE, PLS
General Manager Appalachian Region
ENVIRONMENTAL RESOURCES MANAGEMENT
CONSULTING COMPANY
230 Swartz Drive
Hazard, Kentucky 41701



_____, 20215, July 29th, 2016



EXECUTIVE SUMMARY

1.0 INTRODUCTION

2.0 PROJECT DESCRIPTION

3.0 SITE DESCRIPTION

3.1 GENERAL INFORMATION

3.2 SURFACE MINING

3.3 UNDERGROUND MINING

4.0 FIELD EXPLORATION

4.1 SITE INFORMATION

4.2 TRENCHING AND FIELD OBSERVATIONS

4.3 GROUNDWATER

4.4 SEISMIC SITE CLASSIFICATION

5.0 DISCUSSION AND RECOMMENDATIONS

5.1 GENERAL

5.2 FOUNDATIONS

5.3 SHALLOW FOUNDATIONS

6.0 DISCUSSION AND RECOMMENDATIONS

6.1 SUBSURFACE INVESTIGATION

6.2 LABORATORY AND FIELD TESTING

6.3 ANALYSIS AND RECOMMENDATIONS

6.4 CONSTRUCTION MONITORING

6.5 GENERAL

SPECIFICATIONS

I - GENERAL

II – ENGINEERED FILL BENEATH STRUCTURES

III – GUIDELINES FOR EXCAVATIONS AND TRENCHING

IV – GENERAL CONCRETE SPECIFICATIONS

APPENDIX A – SEISMIC

APPENDIX B – PHOTOGRAPHS

APPENDIX C – MAPS



EXECUTIVE SUMMARY

- A geotechnical investigation was performed on the Indian Creek Site, located near Hurley, in Jackson County, Kentucky. This site is not readily accessible. A preliminary base elevation of the proposed tower was provided at 1346.0 ft. A location map is shown in Figure 1 of this report. One trench was evaluated and visual inspections were used to determine the lithology and type of materials immediately above and below the proposed tower site. The following geotechnical considerations were identified:
- This area is forested. The site has not been previously disturbed. Sandstone was encountered approximately 5 ft. below the ground surface at proposed tower pad. We have estimated the sandstone unit to be a minimum thickness of 15 ft. The bearing capacities of this sandstone unit is predicted to be **8 tsf**. To insure the foundations is bearing on competent rock we recommend lowering the foundation base to a minimum elevation of 1344.0 ft.
- The 2015 International Building Code seismic site classification for this site is "A".
- Close monitoring of the construction operations discussed herein will be critical in achieving the design subgrade support. We therefore recommend that ERMC² be retained to monitor this portion of the work.

This executive summary is included to provide a general overview of the project and should not be relied upon except for the purpose it was prepared. Please rely on the complete report for the information on the findings, recommendations and all other concerns.



1. INTRODUCTION

Environmental Resources Management Consulting Company (ERMC²) was retained by Mr. Marty Thacker of Appalachian Wireless to prepare a geotechnical engineering report for the proposed tower site located near Indian Creek, in Jackson County, Kentucky. A site location map is shown in Figure No. 1.

Trenching and test pits were excavated with assistance from Wendell Gay Construction using a small excavator. Visual inspections and surveyed elevations were used to determine the lithology and type of materials immediately below the proposed tower site. The purpose of these services is to provide information and geotechnical engineering recommendations relative to subsurface conditions, earthwork, seismic considerations, groundwater conditions and foundation design.

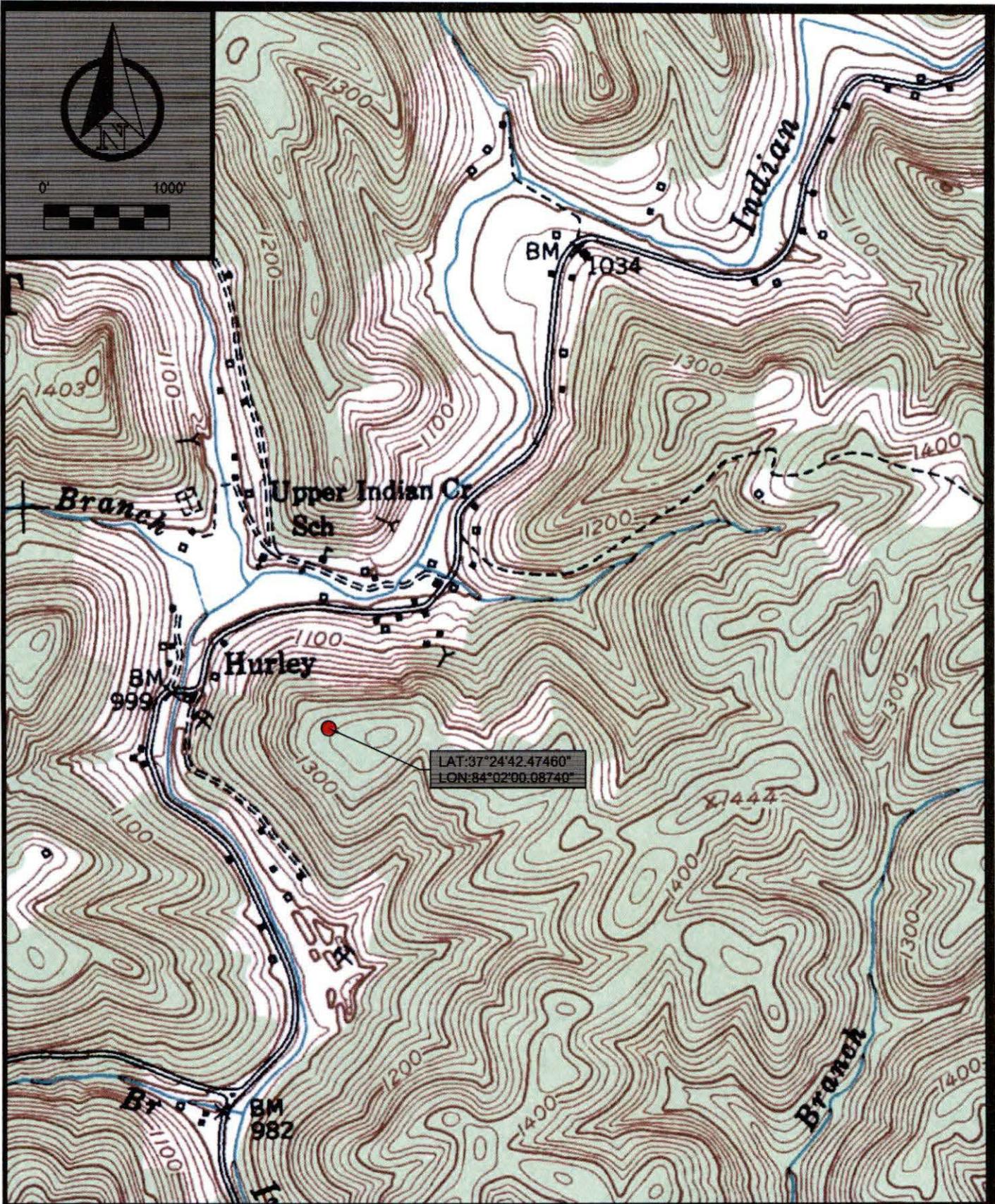
2.0 PROJECT DESCRIPTION

The proposed communication facility will consist of a self-supporting tower of undetermined height and ancillary support areas. Based upon information provided the foundation dimensions are to be approximately 40.5 ft. x 40.5 ft. We estimate the structural loads will be similar to the following conditions:

TABLE NO. 1

CONDITION	LOAD
Total Shear	40 Kips
Axial Load	50 Kips

It is expected that overturning will govern the structural design. If the loadings are significantly different than these expected values, ERMC² should be notified to re-evaluate the recommendations provided in this report.



Drawn:	Date: 8/7/16
Job:	Scale: 1"=1000'
Drawing: USGS SITE LOCATION MAP	

INDIAN CREEK SITE
 APPALACHIAN WIRELESS
 USGS LOCATION MAP
 FIGURE 1



921 Beasley Street, Suite 145
 Lexington, KY 40509
 (859)381-1000
 engineering@ermc2.us

3.0 SITE DESCRIPTION & HISTORICAL MINING

3.1 GENERAL INFORMATION

The site location is near the peak of an undisturbed ridge in Jackson County, Kentucky. The current surface elevation is approximately 1352 ft. Research on the historical mining was conducted by obtaining previous mine license maps from the "Kentucky Mine Mapping Information System" (KMMIS). Other sources, photographs, were also used to try to evaluate historic mining.

3.2 SURFACE MINING

No surfacing mining in the immediate vicinity was found during our research. This was visibly verified during the site investigation.

3.3 UNDERGROUND MINING

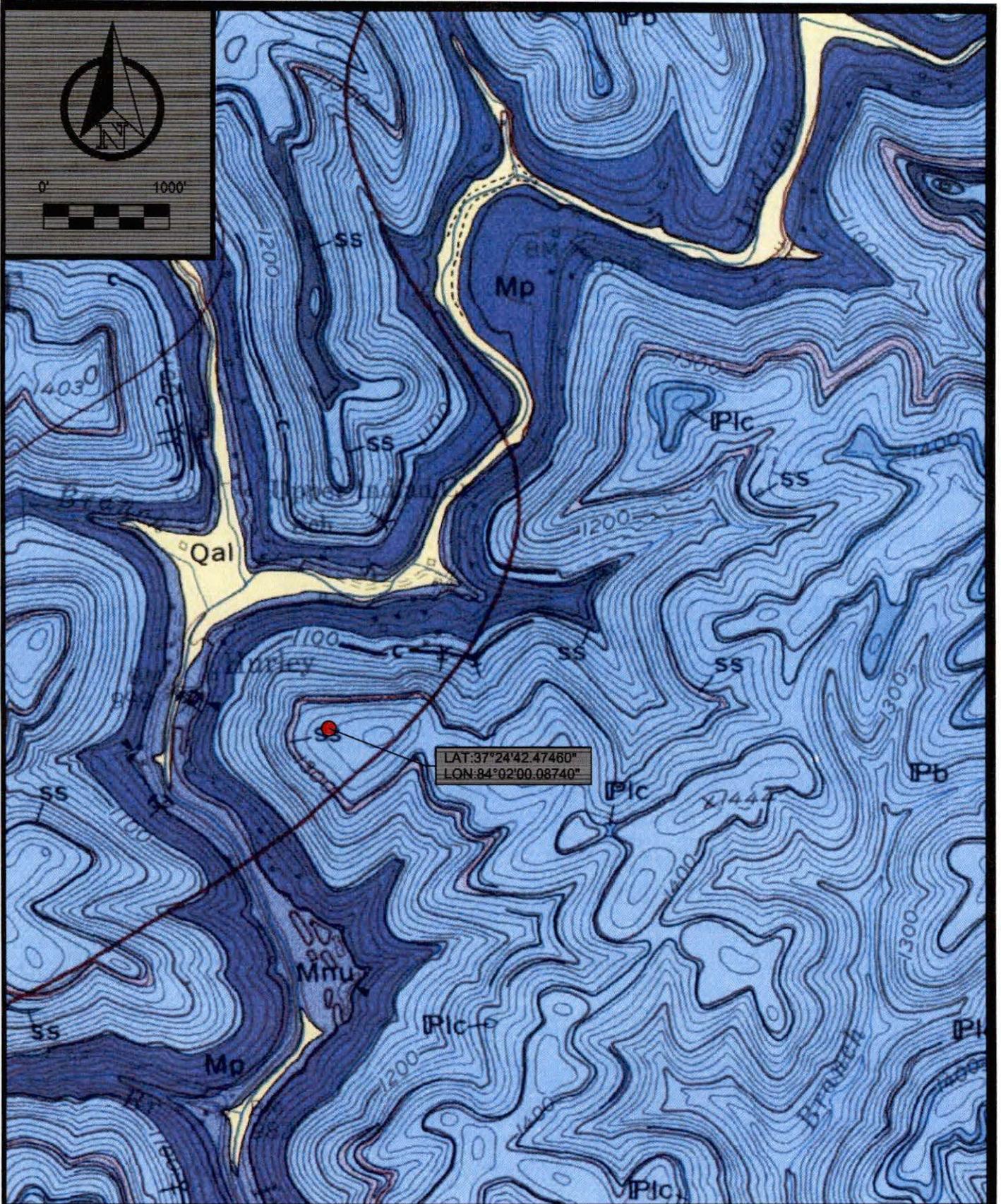
ErMC² reviewed available historical mine maps from the Kentucky Division of Mine Safety, Kentucky Mine Mapping Information System ("KMMIS"). No existing or proposed mines were found in the vicinity during our review of the historical mine maps at KMMIS. Our research found no underground mining activity.

Analysis of aerial maps and field investigations did not yield any evidence that previous underground mining has resulted in surface impacts from subsidence.

4.0 FIELD EXPLORATION

4.1 SITE INFORMATION

The proposed site is located on an undisturbed ridge line in Jackson County, Kentucky. The site lies within the Sandgap Quad and is located east of Hurley. The site is in a wooded area and is not readily accessible by conventional exploratory equipment. An estimated pad location was determined based upon the information provided. A survey stake was found on this site for the tower location. Foundation dimensions were provided and we have used a 40.5 ft. x 40.5 ft. footer for the purpose of this report.



Drawn:	Date: 8/7/16
Job:	Scale: 1"=1000'
Drawing: GQ SITE LOCATION MAP	

INDIAN CREEK SITE
 APPALACHIAN WIRELESS
 GQ LOCATION MAP
 FIGURE 2



921 Beasley Street, Suite 145
 Lexington, KY 40509
 (859)381-1000
 engineering@ermc2.us

4.2 TRENCHING AND FIELD OBSERVATIONS

This investigation was conducted with assistance from Wendell Gay Construction with a small track excavator. One trench was evaluated and visual inspections of rock outcrop formations at this site were used to determine the lithology and type of materials immediately below the proposed tower site. A trench approximately 70 ft. in length was taken through the property at the proposed tower site. The following soils and rock properties were found.

TABLE NO. 2

Depth	Base Elevation	Strata
0.0	1354.0	Surface
0.0 – 5.2	1348.2	Clays
5.2 – 15.0	1339.0	Sandstone

A cross section of this information is in Appendix C of this report.

4.3 GROUNDWATER

Groundwater flow 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 are 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 trenching 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" Rock" per the 2015 Kentucky Building Code. In addition, a S_{DS} coefficient of 0.106g was calculated, and a S_{D1} coefficient of 0.050g 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 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 would attempt to overturn and can act in any directions.

5.2 FOUNDATIONS

It is our understanding that the foundations for these structures can be designed to bear on low bearing pressure soils. This report demonstrates the different expected bearing capacities based upon the type of material encountered from the boring logs and sampling taken at the site.

The surface elevation of the proposed tower site has been estimated to be approximately 1352 ft. Approximately 4 ft. of sandy soil and soft clays are present at this site. Below this is a competent sandstone unit of a minimum thickness of 15 ft.

5.3 SHALLOW FOUNDATIONS

We recommend a single spread footer foundation on competent rock. Based upon the field investigation, the base of the tower foundation should be placed into the brown sandstone at an elevation of approximately 1342 ft. **This will provide a minimum bearing capacity of 8 tsf.** The drawing provided shows the footer at an elevation of 1344 ft. **We recommend lowering the footer base by a minimum of 2 ft.** It is furthermore recommended that the slabs-on-grade be supported on 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 2000 psi concrete. Provided that a minimum of 4 inches of granular material is placed



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

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 ERMC² are a valuable and integral part of the design and construction teams, we do not warrant, guarantee, or insure 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 method of determining the boring location and the surface elevation at the boring is noted in the report, and is presented on the Boring Location Plan or on the boring log. The location and elevation of the boring 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 boring was made. 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 (Groundwater levels change with time and season). The borehole does 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 in accordance with specific ASTM standards unless otherwise indicated. All determinations included in a given ASTM standard are not always required and performed. Each test report indicates the measurements and determinations actually 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 tests made at the locations shown on a site drawing included. Soil variations may exist in adjacent areas and 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.

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 Indian Creek Site in Jackson County, Kentucky. Specific design and construction recommendations have been provided in the various sections of the report. The 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 own conclusions regarding specific construction techniques and methods chosen. ERMC² 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.



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.



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.



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 on the basis of such information, and the 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 at this time. 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.

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

The operations on earth work 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 at all times.

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 continuously, 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 be maintained at all times during benching and filling of the benches, to insure that all water is drained away from the fill area.

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.



III 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 with regard to 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
 - 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 life lines and a basket stretcher.
8. When workers enter bell-bottom pier holes or other deep and confined excavations, the worker must wear (at all times while performing work in the confined space) a separate life line attached to a harness. The line must be 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 guard rails 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.



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 the purpose of 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

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 provided that 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.
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 FORMS

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, waterstops, 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.

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 so as to avoid washing the freshly deposited concrete.
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 insure 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:
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 so as 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 so as to be free from voids, pockets or honeycombing. Particular care shall be taken to provide impermeability.
- E. Vibration Equipment: Vibration equipment shall be of the appropriate type and shall, at all times, 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 in order to make a mono-lithic pour without delays and changes of cold joints.



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 SEISMIC



USGS Design Maps Summary Report

User-Specified Input

Report Title Indian Creek
 Sun August 7, 2016 02:20:53 UTC

Building Code Reference Document 2012/2015 International Building Code
 (which utilizes USGS hazard data available in 2008)

Site Coordinates 37.4118°N, 84.03336°W

Site Soil Classification Site Class A – “Hard Rock”

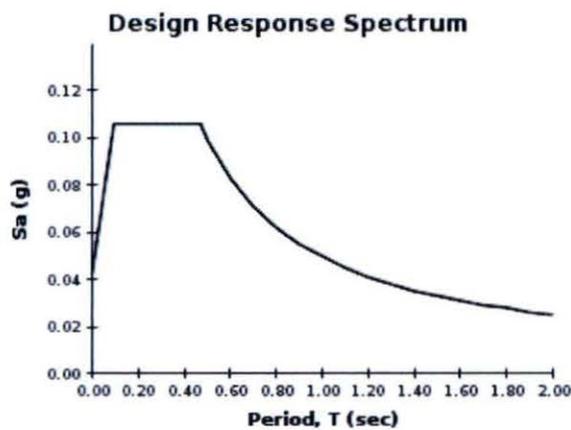
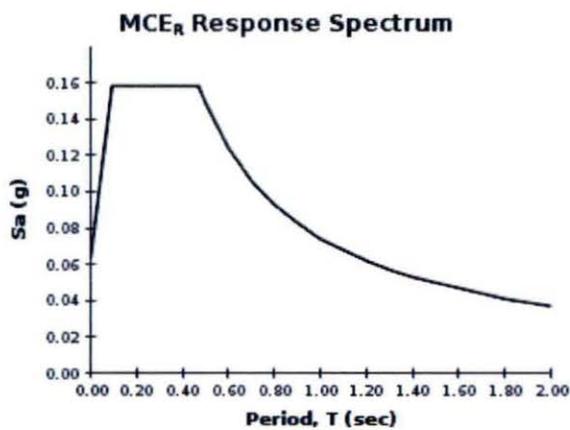
Risk Category IV (e.g. essential facilities)



USGS-Provided Output

$S_S = 0.198\text{ g}$ $S_{MS} = 0.158\text{ g}$ $S_{DS} = 0.106\text{ g}$
 $S_1 = 0.093\text{ g}$ $S_{M1} = 0.074\text{ g}$ $S_{D1} = 0.050\text{ g}$

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the “2009 NEHRP” building code reference document.



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.

APPENDIX B PHOTOGRAPHS



APPENDIX C MAPS



**DRAWING PROVIDED
BY APPALACHIAN WIRELESS**

APPALACHIAN WIRELESS
101 TECHNOLOGY TRAIL
IVEL, KY. 41642
PROPOSED TOWER SITE
NEAR INDIAN CREEK IN JACKSON COUNTY

LARRY CLAY HALCOMB AND
DEBORAH ANN MCDONALD
3016 RIVERSIDE DRIVE
DANVILLE, KY 40422
DEED BOOK: 197 PAGE: 410
BOOK 153 PAGES 263-279
MAP: 44 PARCEL: 30

LARRY CLAY HALCOMB AND
DEBORAH ANN MCDONALD
3016 RIVERSIDE DRIVE
DANVILLE, KY 40422
DEED BOOK: 197 PAGE: 410
BOOK 153 PAGES 263-279
MAP: 44 PARCEL: 30

N:3678101.21
E:5419896.77
Z:1341.63

N:3678112.05
E:5419837.82
Z:1362.62

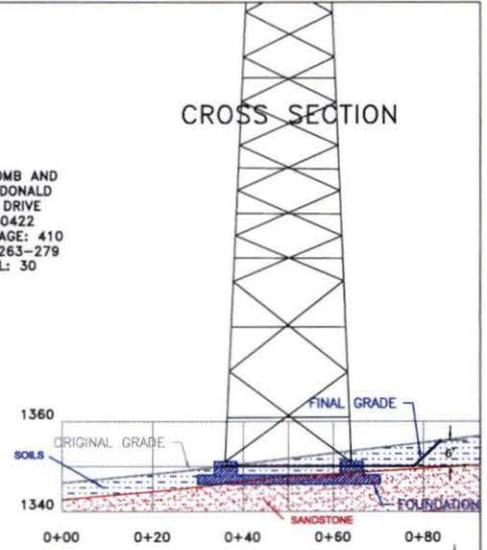
PROPOSED TOWER
LAT:37°24'42.4746"
LON:84°02'00.0875"
N:3678106.71
E:5419789.62
EL:1352

LARRY CLAY HALCOMB AND
DEBORAH ANN MCDONALD
3016 RIVERSIDE DRIVE
DANVILLE, KY 40422
DEED BOOK: 197 PAGE: 410
BOOK 153 PAGES 263-279
MAP: 44 PARCEL: 30

BERNICE HALCOMB, ET AL.
520 STONEYBROOK DR.
DANVILLE, KY 40422
DEED BOOK: 113 PAGE: 525
MAP: 44 PARCEL: 36A

**EXCAVATED
TRENCH**

CROSS SECTION



-THE PROPOSED TOWER HAS BEEN LOCATED USING
DUAL FREQUENCY GPS UNIT PROCESSED BY "OPUS"
-STATE PLANE COORDINATES NAD 83 KY SINGLE ZONE
N:3678106.71 E:5419789.62 EL 1352' EXISTING GRD
PLAN- FOUNDATION EL 1351'-TOP TOWER EL 1651'
-PRECISION: HORIZONTAL=0.30' VERTICAL=0.50'
-THIS SURVEY MEETS OBSTACLE ACCURACY CODE 2C.
-PROPERTY LINE INFORMATION TAKEN FROM DEEDS
AND VERIFIED IN THE FIELD.

SURVEY STA SET FOUND
BOUNDARY LINE
ACCESS ROAD
PARENT TR LINE

PROPOSED SITE PLAN AND STRUCTURE LOCATION INDIAN CREEK TOWER SITE - JACKSON CO.		
DRAWN JWC	DATE 12/03/15	INDIAN CREEK TOWER SITE PRELIMINARY LAYOUT LARRY HALCOMB AND DEBORAH MCDONALD TR OFF HWY 89 NEAR HURLEY
APPROVED	DATE	
SCALE 1" = 20'	SHEET 2 OF 3	PROJECT NO. HURLEY/ICSITEPLAN20



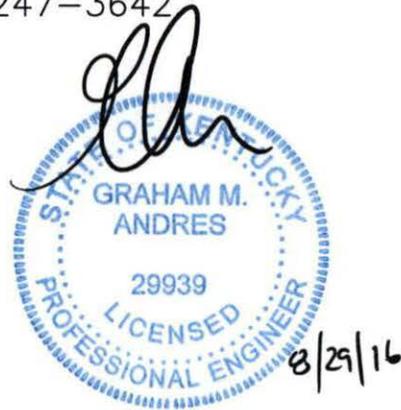
World Tower
COMPANY, INC.

1213 Compressor Drive
P.O. Box 508
Mayfield, KY 42066
270-247-3642
FAX: 270-247-0909
E-mail: worldtower@worldtower.com
Web: www.worldtower.com

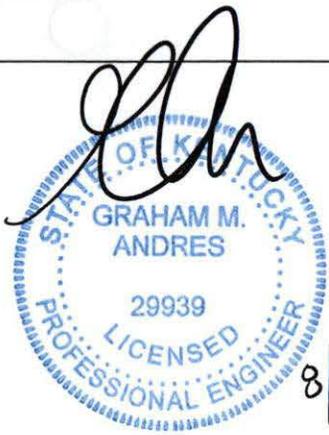
**300' MODEL WSST TOWER
FOR: APPALACHIAN WIRELESS
SITE: INDIAN CREEK
JACKSON COUNTY, KY
DESIGN PACKAGE**

GENERAL NOTES

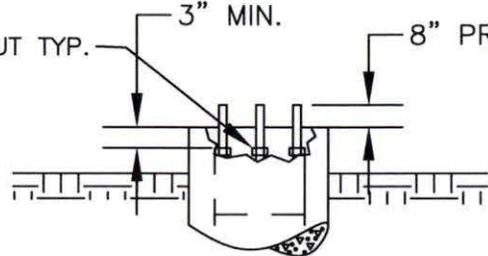
1. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY AWS. D 1.1.
2. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
3. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
4. LEG STEEL IS 50 KSI MIN YIELD SOLID ROUND OR PIPE AND BRACING STEEL IS 36 KSI MIN YIELD SOLID ROUND OR STRUCTURAL ANGLE.
5. ALL STRUCTURAL BOLTS ARE ASTM A325.
6. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH TIA-222-G EVERY 5 YEARS.
7. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.



WORLD TOWER			
TITLE: 300' MODEL WSST TOWER FOR: APPALACHIAN WIRELESS SITE: INDIAN CREEK JACKSON COUNTY, KY			
SCALE	DWN. LKG	CKD.	DATE 8-2-16
FILE	DWG. NO. Q16545N		

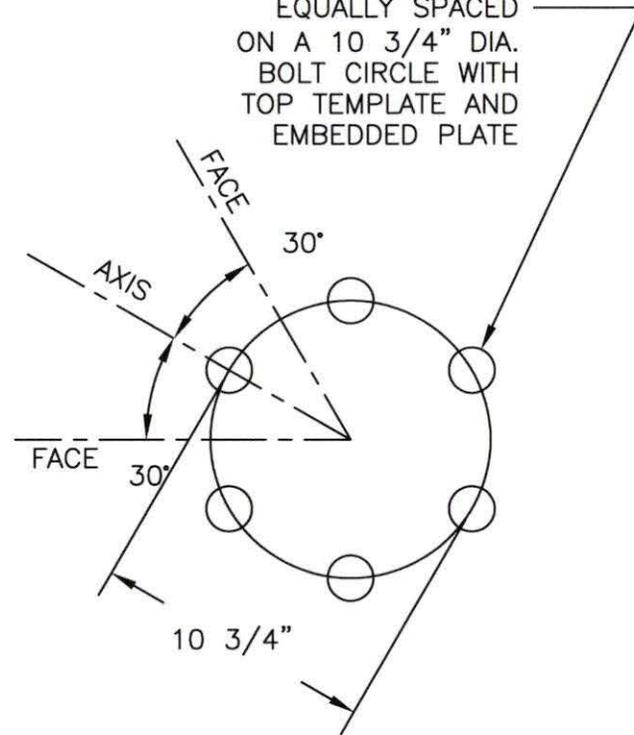
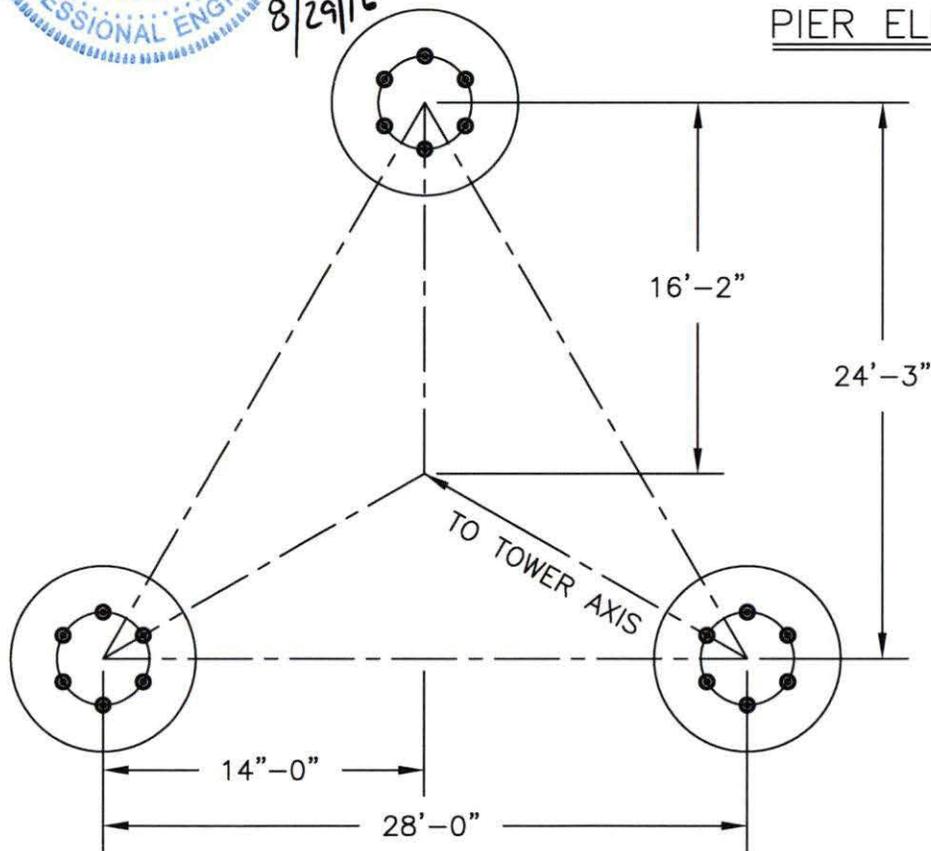


GALVANIZED NUT TYP. 3" MIN. 8" PROJ.



PIER ELEVATION

ANCHOR BOLTS
(6) 1 1/2" ϕ X 66"
(ASTM A354 GR. BC)
EQUALLY SPACED
ON A 10 3/4" DIA.
BOLT CIRCLE WITH
TOP TEMPLATE AND
EMBEDDED PLATE

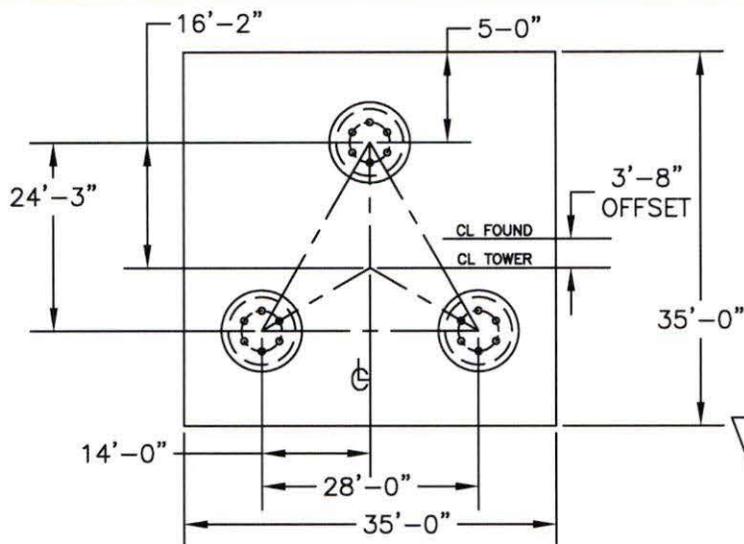


TITLE:

300' MODEL WSST TOWER
FOR: APPALACHIAN WIRELESS
SITE: INDIAN CREEK
JACKSON COUNTY, KY

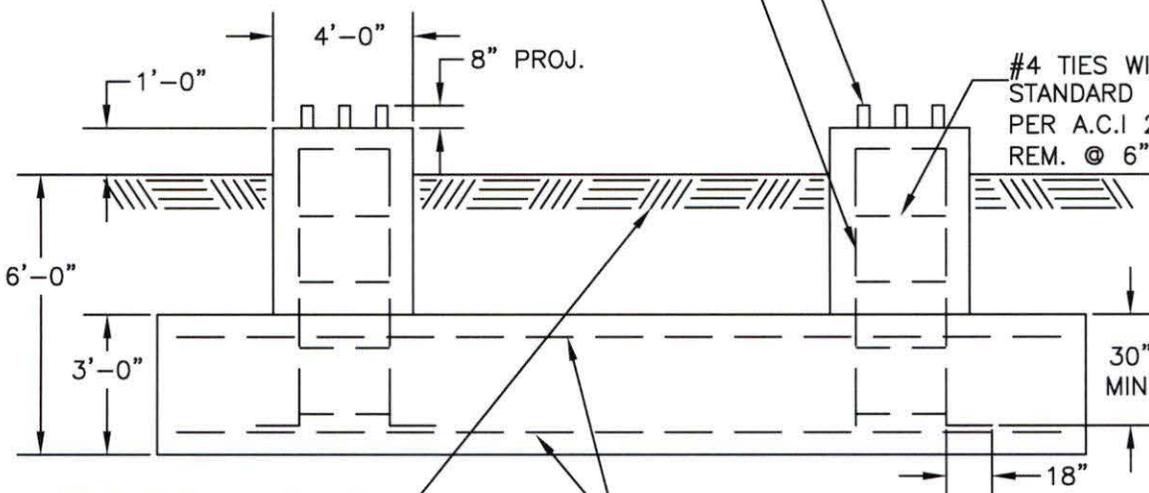
WORLD TOWER

SCALE	NONE	DWN.	LKG	CKD.	DATE	8-29-16
FILE				DWG. NO.	Q16545AB	



142.0 CU. YDS.
CONCRETE REQ'D.

BASE REACTIONS	
OTM:	13640.0 FT. KIPS
COMP.	596.0 KIPS
UPLIFT	502.0 KIPS
SHEAR (3 LEGS)	87.0 KIPS
WT. NO ICE	100.0 KIPS
WT. 3/4" ICE	331.0 KIPS



COMPACTED BACKFILL TO
ACHIEVE MIN. DENSITY OF
100 PCF

42-#10 REBAR
EACH WAY TOP AND BOTTOM
(168 TOTAL)

[Signature]
STATE OF KENTUCKY
GRAHAM M. ANDRES
29939
LICENSED PROFESSIONAL ENGINEER
8/29/14

GENERAL NOTES

1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCEMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM ERMC2. PROJECT NUMBER 165-000-0027 DATED JULY 29TH, 2016.

TITLE: FOUNDATION DETAIL
300' WSST TOWER
FOR: APPALACHIAN WIRELESS
SITE: INDIAN CREEK
JACKSON COUNTY, KY

WORLD TOWER

SCALE NONE	DWN. LKG	CKD.	DATE 8-29-16
FILE	DWG. NO. Q16545F		



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

Aeronautical Study No.
 2016-ASO-12129-OE

Issued Date: 07/15/2016

Ali Kuzehkanani
 East Kentucky Network, LLC
 8300 Greensboro Drive, Suite 1200
 McLean, VA 22102

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

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

Structure: Antenna Tower Indian Creek (McKee)
 Location: McKee, KY
 Latitude: 37-24-42.47N NAD 83
 Longitude: 84-02-00.08W
 Heights: 1352 feet site elevation (SE)
 310 feet above ground level (AGL)
 1662 feet above mean sea level (AMSL)

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

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

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

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

This determination expires on 01/15/2018 unless:

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

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

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2016-ASO-12129-OE.

Signature Control No: 291660757-298774783

(DNE)

Angelique Eersteling
Technician

Attachment(s)
Frequency Data

cc: FCC

Frequency Data for ASN 2016-ASO-12129-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
698	806	MHz	1000	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
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W



KENTUCKY AIRPORT ZONING COMMISSION

MATTHEW BEVIN
Governor

200 Mero Street 4th Floor
Frankfort, KY 40622
www.transportation.ky.gov
502-782-4044

July 18, 2016

APPROVAL OF APPLICATION

APPLICANT:

East Kentucky Network, LLC.
East Kentucky Network, LLC.
8300 Greensboro Drive Suite 1200
McLean, VA 22102

SUBJECT: AS-055-139-2016-034

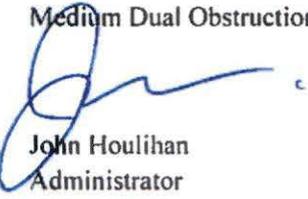
STRUCTURE: Antenna Tower
LOCATION: McKee, KY
COORDINATES: 37° 24' 42.47" N / 84° 2' 0.08" W
HEIGHT: 310' AGL/1662' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 310' AGL/ 1662' AMSL Antenna Tower near McKee, KY 37° 24' 42.47" N / 84° 2' 0.08" W.

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

A copy of the approved application is enclosed for your files.

Medium Dual Obstruction Lighting is required in accordance with 602 KAR 50:100.


John Houlihan
Administrator



An Equal Opportunity Employer M/F/D



KENTUCKY AIRPORT ZONING COMMISSION

MATTHEW BEVIN
Governor

200 Mero Street 4th Floor
Frankfort, KY 40622
www.transportation.ky.gov
502-782-4044

CONSTRUCTION/ALTERATION STATUS REPORT

July 18, 2016

AERONAUTICAL STUDY NUMBER: AS-055-139-2016-034

East Kentucky Network, LLC.
East Kentucky Network, LLC.
8300 Greensboro Drive Suite 1200
McLean, VA 22102

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on July 18, 2016. This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within the said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit. When appropriate, please indicate the status of the project in the place below and return this letter to John Houlihan, Administrator, Kentucky Airport Zoning Commission, 200 Mero Street 4th Floor Office of Audits, Frankfort, KY, 40622. 502-782-4044.

STRUCTURE: Antenna Tower
LOCATION: McKee, KY
COORDINATES: 37° 24' 42.47" N / 84° 2' 0.08" W
HEIGHT: 310' AGL / 1662' AMSL

CONSTRUCTION/ALTERATION STATUS

- The project () is abandoned. () is not abandoned.
- Construction status is as follows:
 Structure reached its greatest height of _____ ft. AGL
 _____ ft. AMSL on _____ (date).
 Date construction was completed. _____
 Type of obstruction marking/painting. _____
 Type of obstruction lighting. _____
 As built coordinates. _____
 Miscellaneous Information. _____
 DATE _____
 SIGNATURE/TITLE _____



An Equal Opportunity Employer M/F/D



KENTUCKY TRANSPORTATION CABINET

TC 56-50
Rev. 07/2010
Page 2 of 2

KENTUCKY AIRPORT ZONING COMMISSION

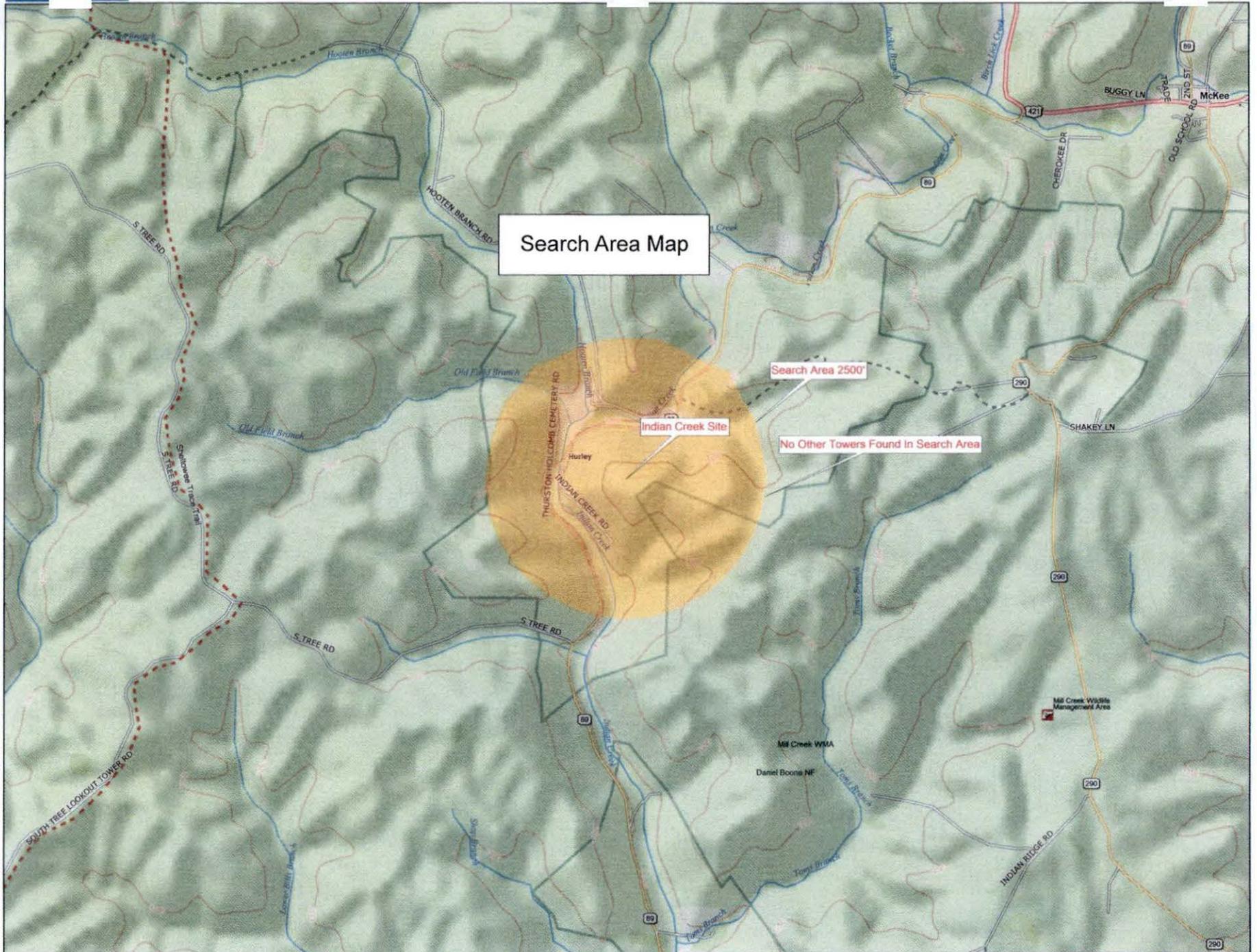
APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) East Kentucky Network, LLC c/o LNGS		PHONE 703-584-8667	FAX 703-584-8692	KY AERONAUTICAL STUDY # AP-055-239-286-034
ADDRESS (street) 8300 Greensboro Dr, #1200		CITY McLean		STATE VA
ZIP 22102				
APPLICANT'S REPRESENTATIVE (name) Ali Kuzehkanani		PHONE 703-584-8667	FAX 703-584-8692	
ADDRESS (street) 8300 Greensboro Dr, #1200		CITY McLean		STATE VA
ZIP 22102				
APPLICATION FOR <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start 06/15/16 End 06/20/16
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 type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity		
<input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank		<input checked="" 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°24'42.47"		LONGITUDE 84°02'00.08"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27
<input type="checkbox"/> Other				
NEAREST KENTUCKY City McKee County Jackson		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Madison Airport		
SITE ELEVATION (AMSL, feet) 1352		TOTAL STRUCTURE HEIGHT (AGL, feet) 310		CURRENT (FAA aeronautical study #)
OVERALL HEIGHT (site elevation plus total structure height, feet) 1662				PREVIOUS (FAA aeronautical study #)
DISTANCE (from nearest Kentucky public use or Military airport to structure) 22.3 mi				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.) Indian Creek Road, approx. 2.2 mi SW of McKee (Jackson), KY				
DESCRIPTION OF PROPOSAL An new 300' tower 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? 05/11/2016				
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 Ali Kuzehkanani	TITLE Dir of Engineering	SIGNATURE 	DATE 05/11/2016	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC		
<input checked="" type="checkbox"/> Approved		<input checked="" type="checkbox"/> Administrator, KAZC		
<input type="checkbox"/> Disapproved		SIGNATURE 	DATE 7-18-16	

Driving Directions for Indian Creek

Starting in front of the Jackson County courthouse in McKee, Kentucky, drive 0.5 miles on US 421 North to the intersection of US 421 and HWY 89. Turn left onto HWY 89 and drive 2.3 miles. The tower access road is on the left. A sign will be posted here. Take the access road for approximately 1200 feet. You will have arrived at the site. Signs will be posted here, as well.

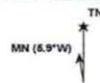
Prepared By:
Daryl Bartley
Appalachian Wireless
606-477-2355



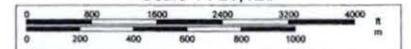
Data use subject to license.

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www.delorme.com



Scale 1 : 28,125



1" = 2,343.8 ft Data Zoom 13-3

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE is made and entered into on this 22nd day of April, 2016, with a commencement date of May 1, 2016, by and between Larry C. Halcomb and Virginia B. Halcomb, husband and wife, with a mailing address of 3016 Riverside Drive, Danville, KY 40422 and Christopher Duff and Deborah Halcomb-McDonald Duff, husband and wife, with a mailing address of 4816 Brian Station Road, Lexington, KY 40516, hereinafter referred to as "Lessors" and East Kentucky Network, LLC d/b/a Appalachian Wireless, with a mailing address of 101 Technology Trail, Ivel, Kentucky 41642, hereinafter referred to as "Lessee."

WITNESSETH

1. **Demised Premises.** For good and valuable consideration, Lessors leased to Lessee, and Lessee has leased from Lessors a portion of that certain tract of real estate conveyed to Lessors by Deed of Conveyance from Bernice Halcomb and recorded in Deed Book 197, Page 410 and Deed Book 153, Page 263, in the Jackson County Clerk's Office. Said property is more particularly described in the description and plat attached hereto and made a part hereof as Exhibits A and B, prepared by J.W. Caudill, Licensed Professional Land Surveyor (hereinafter referred to as the "Premises"). The Lessors have also granted unto Lessee full and complete right of ingress, egress and regress to the Premises over Lessors' property and other associated rights for installation of utilities and for maintenance.

2. **Term.** The initial term of the Lease is for a period of five (5) years from the commencement date set forth above.

3. **Option to Renew.** Lessee has the right and option to renew the Lease for an additional six (6) terms of five (5) years each.

4. **Binding Effect.** All of the terms, conditions, and covenants hereof shall be binding and inure to the benefit of the parties and their respective heirs, representatives, successors, and assigns.

5. **Purpose.** This Memorandum of Lease is prepared solely for the purpose of recordation, and is not intended to, nor shall it be deemed to, modify any of the terms and conditions set forth in the Lease, nor to construe any of the rights, duties or responsibilities of Lessors and Lessee. In the event of any conflict between the terms and conditions of this Memorandum and the terms and conditions of the Lease, the terms and conditions of the Lease shall supersede and control.

IN WITNESS WHEREOF, Lessors and Lessee have caused their names to be signed hereto, as of the day and year first above written.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

LESSORS:

Larry C. Halcomb
Larry C. Halcomb

Virginia B. Halcomb
Virginia B. Halcomb

COMMONWEALTH OF KENTUCKY
COUNTY OF Boyle

The foregoing instrument was acknowledged before me on this 20th day of April, 2016, by Larry C. Halcomb and Virginia B. Halcomb, Lessors.

Raina P. Helton
Notary Public

My Commission Expires Feb 6, 2020



LESSORS:

Christopher Duff
Christopher Duff

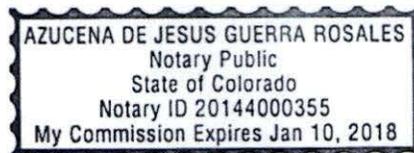
Deborah Halcomb-McDonald Duff
Deborah Halcomb-McDonald Duff

COMMONWEALTH OF ~~KENTUCKY~~ ^{Colorado}
COUNTY OF Jefferson

The foregoing instrument was acknowledged before me on this 27th day of April, 2016, by Deborah Halcomb-McDonald Duff and Christopher Duff, Lessors.

[Signature]
Notary Public

My Commission Expires Jan 10, 2018



LESSEE:

EAST KENTUCKY NETWORK, LLC

By W A Gillum

Its CEO/ GM

COMMONWEALTH OF KENTUCKY
COUNTY OF Floyd

The foregoing instrument was acknowledged before me on this 25th day of April, 2016, by W.A. Gillum, CEO/General Manager of East Kentucky Network, LLC, d/b/a Appalachian Wireless.

Raina L. Helton
Notary Public

My Commission Expires Feb 6, 2020



This instrument was prepared by:

Cindy D. McCarty
Cindy D. McCarty, Attorney at Law
East Kentucky Network, LLC d/b/a Appalachian Wireless
101 Technology Trail
Ivel, Kentucky 41642

LOT DESCRIPTION

Property of
Larry Clay Halcomb & Deborah Ann McDonald
3016 Riverside Drive
Danville, Ky 40422
Located on Indian Creek in Jackson County
November 14, 2015

A portion of the property lying on Indian Creek in Jackson County of Kentucky, off Hwy 89 near the top of ridge. Being a part of the same land conveyed by deed from Bernice Halcomb to Larry Clay Halcomb and Deborah Ann McDonald by Deed dated July 29, 2011 and recorded in Deed Book 197 Page 410 and by deed from Thurston Halcomb and Bernice Halcomb, his wife to Larry Clay Halcomb and Deborah Ann McDonald by deeds dated December 30, 1998 and recorded in Deed Book 153 Pages 263-279 of the Jackson county Court Clerk.

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 performed by James W. Caudill, LS2259, on November 14, 2015.

Lot 1A

Situated on the waters off Indian Creek, approximately two miles southwest of the city of McKee, in Jackson County, Kentucky, and beginning at a reference point on the top of the mountain on the east side of Kentucky Highway 89, at a corner to lands off the United States of America Daniel Boone Forest Tract C-2, said reference corner being a 3-inch surveyor disk stamped #1588, found on a 3-inch concrete post at Corner No. 46 of Tract C-2, as recorded in Deed Book 56, Page 1 at Page 3; thence leaving the Daniel Boone Forest and crossing lands of Larry C. Halcomb and Deborah A. McDonald, as recorded in Deed Tracts 2-1,3-1, and 4-,1 of Deed Book 197, Page 410, and with reference to the Kentucky State Plane NAD83-Single Zone grid bearings and distances

S 87° 41' 48" W 456.35 feet to the Point of Beginning, said point of beginning being a one-half inch iron rebar set with plastic cap marked ls2259 said point also being N 26° 59' 23" W 283.04 feet from a 3-inch diameter surveyor disk on a 1.5-inch iron pipe found at a corner to the Daniel Boone Forest Tract C-2; thence from the Point of Beginning of the proposed lot

S 40° 34' 46" W 99.99 feet to a one-half inch iron pin set with plastic cap marked ls2259; said rebar being about twelve feet from the property line of Bernice Halcomb, ET AL, as recorded in Tract 4 of Deed Book 113, Page 525 thence

N 49° 24' 49" W 100.07 feet to a one-half inch iron rebar set with plastic cap marked ls2259, said rebar being about twelve feet from the property line of Bernice Halcomb, ET AL ; thence

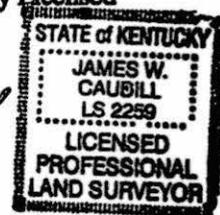
N 40° 37' 29" E 100.01 feet to a one-half inch iron rebar with plastic cap marked ls2259;; thence

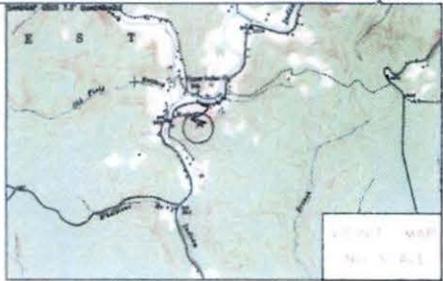
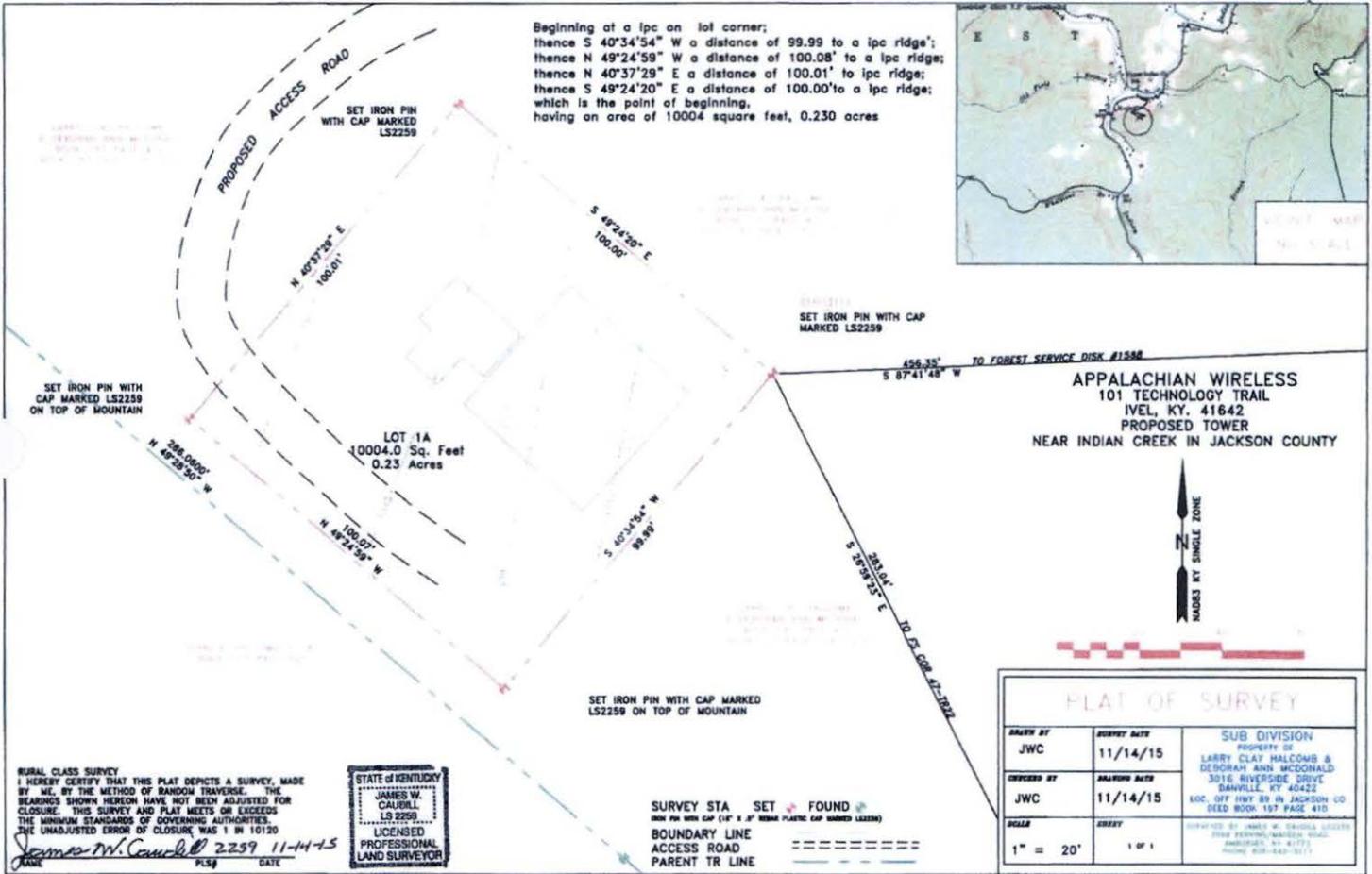
S 49° 24' 20" E 100.00 back to the Point of Beginning.

Containing a calculated area of 10004 sq ft or 0.23 acre, more or less,

This survey was performed on November 14, 2015 by James W. Caudill, a Kentucky Licensed Professional Land Surveyor No. 2259.

James W. Caudill
James W. Caudill, PLS #2259
11-14-15





RURAL CLASS SURVEY
 I HEREBY CERTIFY THAT THIS PLAT DEPICTS A SURVEY, MADE BY ME, BY THE METHOD OF RANDOM TRAVERSE. THE READINGS 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 10120

James W. Caubill 2259 11-14-15

NAME PLS# DATE

STATE OF KENTUCKY
 JAMES W. CAUBILL
 LS 2259
 LICENSED PROFESSIONAL LAND SURVEYOR

SURVEY STA SET FOUND
 IRON PIN WITH CAP (1" x 1/2" RED) PLASTIC CAP MARKED LASERS

BOUNDARY LINE
 ACCESS ROAD
 PARENT TR LINE

PLAT OF SURVEY		
DRAWN BY JWC	SURVEY DATE 11/14/15	SUB DIVISION PROPERTY OF LARRY CLAY HALCOMB & DEBORAH ANNE MCCONNELL 3016 RIVERSIDE DRIVE DANVILLE, KY 40422 LOC. OFF. HWY 89 IN JACKSON CO DEED BOOK 197 PAGE 410
CHECKED BY JWC	DATE 11/14/15	CREATED BY JAMES W. CAUBILL LS 2259 PHONE 606-642-5171
SCALE 1" = 20'	SHEET 1 OF 1	

LINE	BEARING	DISTANCE
L1	S 57°01'24" W	84.73'
L2	S 60°05'41" W	71.79'
L3	S 66°04'40" W	65.00'
L4	S 73°29'58" W	69.88'
L5	S 86°52'22" W	64.19'
L6	N 76°27'15" W	97.56'
L7	N 53°54'08" E	57.18'
L8	N 81°35'18" E	20.06'
L9	S 79°44'41" E	63.78'
L10	S 68°11'27" E	58.19'
L11	S 65°09'55" E	55.76'

APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
 PROPOSED TOWER SITE
 NEAR INDIAN CREEK IN JACKSON COUNTY

LARRY CLAY HALCOMB AND
 DEBORAH ANN MCDONALD
 3016 RIVERSIDE DRIVE
 DANVILLE, KY 40422
 DEED BOOK: 197 PAGE: 410
 BOOK 153 PAGES 263-279
 MAP: 44 PARCEL: 30

LARRY CLAY HALCOMB AND
 DEBORAH ANN MCDONALD
 3016 RIVERSIDE DRIVE
 DANVILLE, KY 40422
 DEED BOOK: 197 PAGE: 410
 BOOK 153 PAGES 263-279
 MAP: 44 PARCEL: 30

N:3678101.21
 E:5419696.77
 Z:1341.63

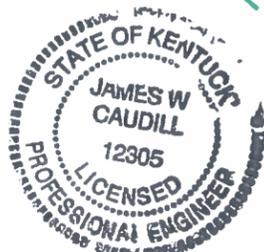
N:3678112.05
 E:5419837.82
 Z:1362.62

BERNICE HALCOMB, ET AL.
 520 STONEYBROOK DR.
 DANVILLE, KY 40422
 DEED BOOK: 113 PAGE: 525
 MAP: 44 PARCEL: 36A

PROPOSED TOWER
 LAT:37°24'42.4746"
 LON:84°02'00.0875"
 N:3678106.71
 E:5419789.62
 EL:1352

LARRY CLAY HALCOMB AND
 DEBORAH ANN MCDONALD
 3016 RIVERSIDE DRIVE
 DANVILLE, KY 40422
 DEED BOOK: 197 PAGE: 410
 BOOK 153 PAGES 263-279
 MAP: 44 PARCEL: 30

-THE PROPOSED TOWER HAS BEEN LOCATED USING
 DUAL FREQUENCY GPS UNIT PROCESSED BY "OPUS"
 -STATE PLANE COORDINATES NAD 83 KY SINGLE ZONE
 N:3678106.71 E:5419789.62 EL 1352' EXISTING GRD
 PLAN- FOUNDATION EL 1351'-TOP TOWER EL 1651'
 -PRECISION: HORIZONTAL=0.30' VERTICAL=0.50'
 -THIS SURVEY MEETS OBSTACLE ACCURACY CODE 2C.
 -PROPERTY LINE INFORMATION TAKEN FROM DEEDS
 AND VERIFIED IN THE FIELD.

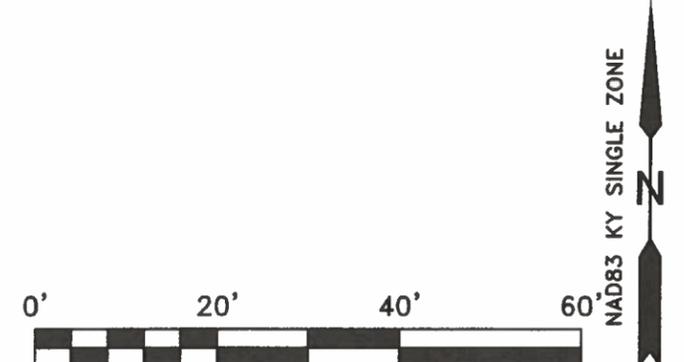
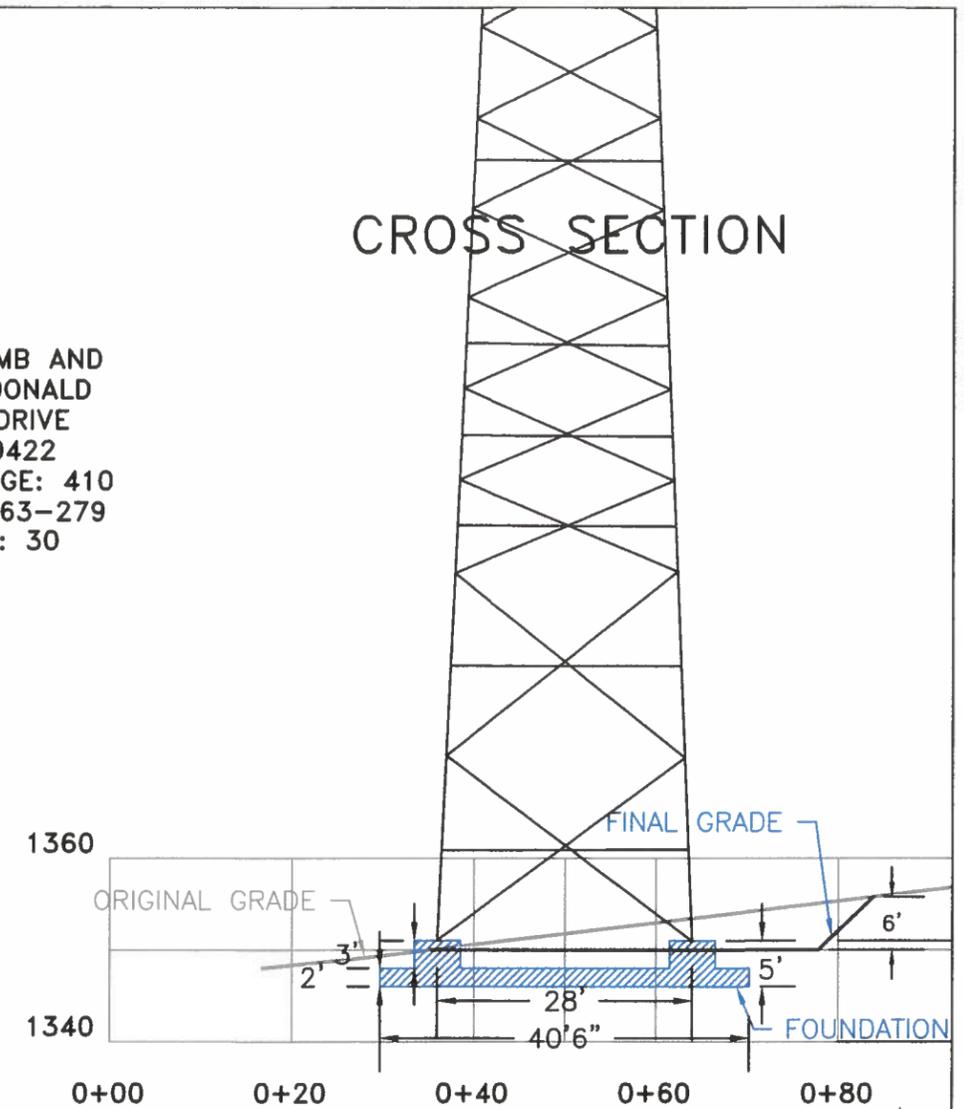


I HEREBY CERTIFY THAT THIS DOCUMENT
 WAS PREPARED BY ME OR UNDER MY DIRECTION.
James W. Caudill
 JAMES W. CAUDILL

12305 PE#
 12-3-15 DATE

SURVEY STA SET FOUND
 IRON PIN WITH CAP (18" X .5" REBAR PLASTIC CAP MARKED LS2259)
 BOUNDARY LINE - - - - -
 ACCESS ROAD = = = = =
 PARENT TR LINE - . - . - .

CROSS SECTION



PROPOSED SITE PLAN AND STRUCTURE LOCATION INDIAN CREEK TOWER SITE - JACKSON CO.		
DRAWN JWC	DATE 12/03/15	INDIAN CREEK TOWER SITE LARRY HALCOMB AND DEBORAH MCDONALD TR OFF HWY 89 NEAR HURLEY
APPROVED	DATE	
SCALE 1" = 20'	SHEET 2 OF 3	PROJECT NO. HURLEY/ICSITEPLAN20

DANIEL BOONE NATIONAL FOREST TR
C/O LONDON RANGER STATION
761 S. LAUREL ROAD
LONDON, KY 40744

DAVID AND MARTHA GARBARD
4958 CHABLIS COURT
FAIRFIELD, OH 45014
DEED BOOK: 136 PAGE: 428
MAP: 44 PARCEL: 13

BRENDA P. ROBINSON
1151 HWY 89 S.
MCKEE, KY 40447
DEED BOOK: 200 PAGE: 673
MAP: 44 PARCEL: 11A

JANETTE ANGEL
3082 W. COUNTRY CLUB RD.
CONNERSVILLE, IN 47331
DB:135 P:468
MAP:44 PARCEL:28

PAUL ANGEL
C/O LARRY MILLION
1491 HWY 578 N.
ANNVILLE, KY 40402
DB:154 P:87
MAP:44 PARCEL:28A

EDGAR RAY BOLES
P.O. BOX 75
SANDGAP, KY 40481
DEED BOOK: 165 PAGE: 570
MAP: 44 PARCEL: 28A

BAROLD AND ZADA LOU YOUNG
3234 COTTAGE AVENUE
NAPLES, FL 33982
DEED BOOK: 158 PAGE: 123
MAP: 44 PARCEL: 25

J.B. MORRIS HEIRS
C/O GLENN MORRIS
3368 HWY 421 N.
MCKEE, KY 40447
DEED BOOK: 43 PAGE: 636
MAP: 44 PARCEL: 27

RANDY & TERESSA WHICKER
7291 HWY 421 S
MCKEE, KY 40447
DEED BOOK: 203 PAGE: 322
MAP: 44 PARCEL: 29

J.B. MORRIS HEIRS
C/O GLENN MORRIS
3368 HWY 421 N.
MCKEE, KY 40447
DEED BOOK: 43 PAGE: 636
MAP: 44 PARCEL: 27

DANIEL BOONE NATIONAL FOREST TRACT C-2
C/O LONDON RANGER STATION
761 S. LAUREL ROAD
LONDON, KY 40744
DEED BOOK: 56 PAGE: 1
MAP: 33 PARCEL: 3

HAROLD BALDWIN
460 HERSHEL GABBARD RD.
MCKEE, KY 40447
DB:195 P:737
MAP:44 PARCEL:33

HAROLD BALDWIN
468 HERSHEL GABBARD RD.
MCKEE, KY 40447
DB:195 P:737
MAP:44 PARCEL:34

HAROLD AND WANDA FAYE BALDWIN
440 HWY 89 S.
MCKEE, KY 40447
DB:190 P:281
MAP:44 PARCEL:33A

HAROLD AND WANDA FAYE BALDWIN
440 HWY 89 S.
MCKEE, KY 40447
DB:131 P:389
MAP:44 PARCEL:38

WILEY COLE, JR.
505 FARMINGTON COURT
RICHMOND, KY 40475
DEED BOOK: 95 PAGE: 169
MAP: 44 PARCEL: 38

SHERMAN LEAR
430 STATE ROUTE 89 S.
MCKEE, KY 40447
DEED BOOK: 101 PAGE: 205
MAP: 44 PARCEL: 39

EARL AND GRETHEL GABBARD
C/O DOUG BREWER
513 S. WHIPPOWILL LN.
SCOTTSBURG, IN 47170-6818
DB:84 P:388
MAP:44 PARCEL:32

COLEMAN COX
P.O. BOX 1010
MCKEE, KY 40447
DEED BOOK: 78 PAGE: 390
MAP: 44 PARCEL: 40

BARBARA MCQUEEN
P.O. BOX 724
MCKEE, KY 40447
DB:156 P:76
MAP:44 PARCEL:31

BARBARA MCQUEEN
P.O. BOX 724
MCKEE, KY 40447
DB:156 P:76
MAP: 44 PARCEL 31

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DB:156 P:76
MAP: 44 PARCEL 31

WILSON
12305
PROFESSIONAL ENGINEER

VICINITY MAP NO SCALE

HIGHWAY 89

Indian Creek

Overhead Power Line

Power Pole

Stone Bldg

Residence

Chimney

Barn

Old House Sites

Old Logging Road

Old Barn Site

Old House Site

AFFECTED AREA BOUNDARY

1080

1120

1160

1200

1240

1280

1320

1360

1400

1440

1480

1520

1560

1600

200'

500'

N:3678106.71
E:5419789.62
EL:1352
LAT:37°24'42.4746"
LON:84°02'00.0875"

0' 200' 400' 600'

ALIGNED TO NAD83 KY SINGLEZONE STATE PLANE NORTH

APPALACHIAN WIRELESS
101 TECHNOLOGY TRAIL
IVEL, KY 41642
PROPOSED TOWER SITE
NEAR HURLEY IN JACKSON CO.

Hurley

BERNICE HALCOMB, ET AL
520 STONEYBROOK DR.
DANVILLE, KY 40422
DEED BOOK: 113 PAGE: 525
MAP: 44 PARCEL: 36A

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MCKEE, KY 40447
DB:156 P:76
MAP:44 PARCEL:31

J W CAUDILL ENGINEERING
9283 HWY 15 STE. C, ISOM, KY 41824
ENGINEER'S CERTIFICATE: I HEREBY CERTIFY THAT THE INFORMATION SHOWN REFLECTS THE INFORMATION OBTAINED AND PROVIDED BY THE JACKSON COUNTY PROPERTY VALUATION ADMINISTRATION OFFICE IN MCKEE, KY.
James W. Caudill
JAMES W. CAUDILL
12305
P.E.#
12-3-15
DATE

LARRY CLAY HALCOMB AND DEBORAH ANN MCDONALD
3016 RIVERSIDE DRIVE
DANVILLE, KY 40422
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MAP: 44 PARCEL: 30

Hurley

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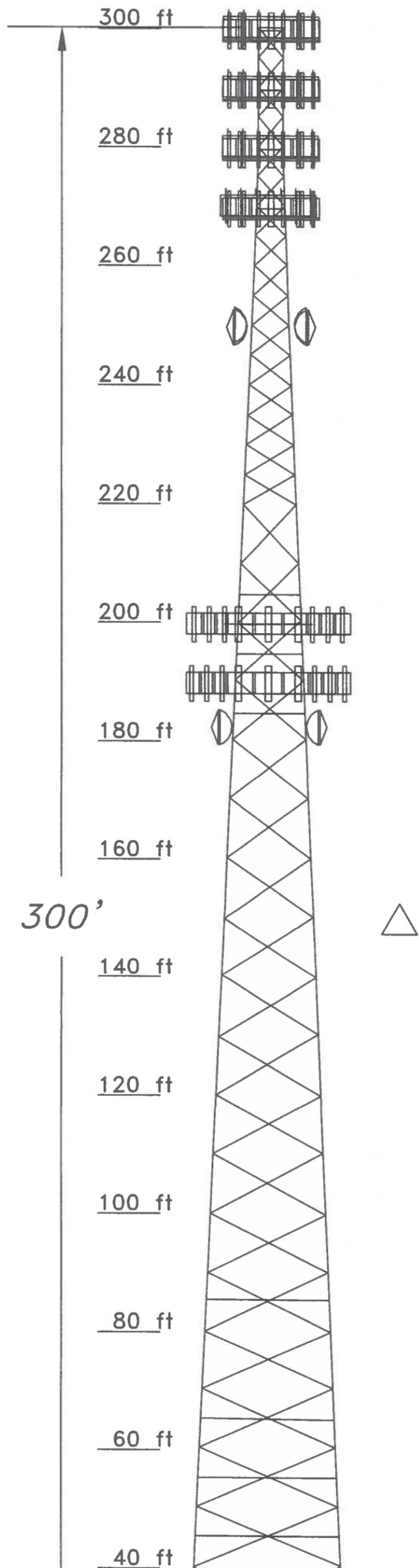
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James W. Caudill
JAMES W. CAUDILL
12305
P.E.#
12-3-15
DATE

PROPOSED SITE PLAN AND STRUCTURE LOCATION
INDIAN CREEK TOWER SITE - JACKSON CO.

DRAWN JWC	DATE 12/03/15	INDIAN CREEK TOWER LARRY CLAY HALCOMB & DEBORAH ANN MCDONALD TR STRUCTURES WITHIN 500'
APPROVED	DATE	
SCALE 1" = 200'	SHEET 1 OF 3	PROJECT NO. HURLEY/IC200PVA

APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
 PROPOSED TOWER SITE
 NEAR INDIAN CREEK IN JACKSON CO.



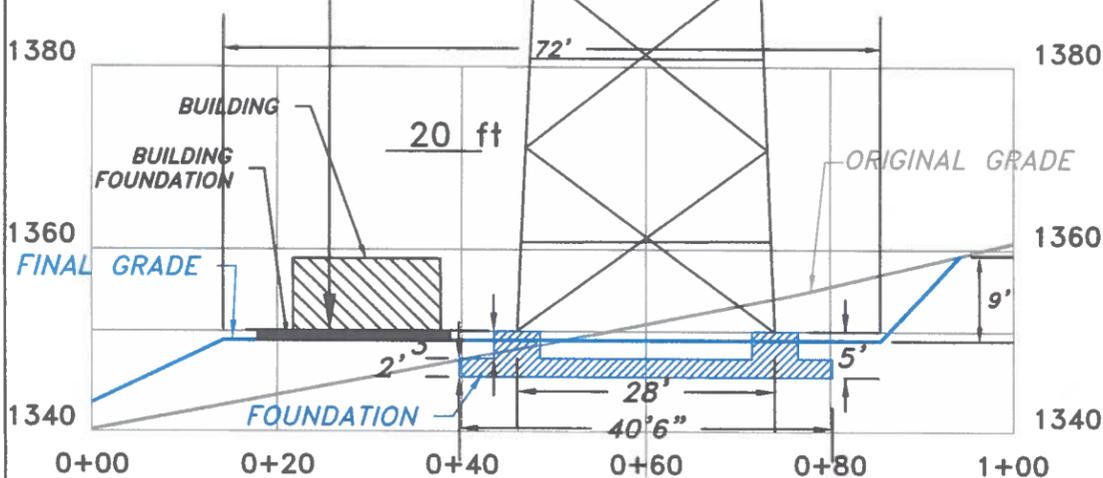
PROFILE WITH TOWER

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 12-3-15
 JAMES W. CAUDILL PE #. DATE

NOTE: SEE FOUNDATION DRAWINGS FOR DETAILS

12/03/15
 SCALE 1" = 20'



PROPOSED SITE PLAN AND STRUCTURE LOCATION INDIAN CREEK TOWER APPALACHIAN WIRELESS		
DRAWN JWC	DATE 12/03/15	INDIAN CREEK TOWER LARRY CLAY HALCOMB AND DEBORAH ANN MCDONALD TR OFF HWY 89 NEAR HURLEY
APPROVED	DATE	
SCALE 1" = 20'	SHEET 3 OF 3	PROJECT NO. HURLEY/ICPRO20