COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the matter of:

THE APPLICATION OF EAST KENTUCKY NETWORK,
LLC FOR THE ISSUANCE OF A CERTIFICATE OF
PUBLIC CONVENIENCE AND NECESSITY TO
CONSTRUCT A TOWER IN MAGOFFIN COUNTY,
KENTUCKY.) CASE NO. 2020-00051

East Kentucky Network, LLC d/b/a Appalachian Wireless, was granted authorization to provide cellular service in the KY-9 Cellular Market Area (CMA451) by the Federal Communications Commission (FCC). 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 state of Kentucky.

In an effort to improve service in Magoffin 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 400 foot guyed tower on a tract of land located near 4371 East Mountain Parkway, Salyersville, Magoffin County, Kentucky (37°43'09.31"N 82°58'42.09"W). A map and detailed directions to the site can be found in Exhibit 7.

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

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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)(1), 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.

Magoffin County has no formal local planning unit. In absence of this unit, the Magoffin 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 Salyersville Independent, September 3, 2020, edition. Enclosed is a copy of that notice in Exhibit 3. The Salyersville Independent is the newspaper with the largest circulation in Magoffin 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

2

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. Their qualifications are included as Exhibit 13.

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 August 24, 2020, 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 Lease Agreement for the site location along with a lot description.

The proposed construction site is on a rugged mountaintop in close proximity to the existing tower. There is an existing 400-foot tower owned by East Kentucky Network, LLC on the property which cannot meet the needs of East Kentucky Network, LLC and will be removed upon construction of the proposed tower.

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

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

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

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

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

[THE REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK.]

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Mailing Address:

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

128/2020 SUBMITTED BY: DAT

Lynn Haney, Regulatory Compliance Director

APPROVED BY:

DATE: 1/28/2000

W.A. Gillum, General Manager

ATTORNEY:

1 DATE:

Hon. Krystal Branham, Attorney

CONTACT INFORMATION:

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

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

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

1	FCC License
	Copies of Cell Site Notice to Land Owners
3	Notifications of County Judge Executive and Newspaper
4	Universal Soil Bearing Analysis
5	Tower Design
6	FAA and KAZC Determination
7	Driving Directions from County Court House and Map to SUitable Scale
8	Lease Agreement 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	List of Competitors
13	Qualifications
14	
15	



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

Call Sign	KNKN880	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular
Market			
Market	CMA451 - Kentucky 9 - Elliott	Channel Block	В
Submarket	0	Phase	2
Dates			
Grant	08/30/2011	Expiration	10/01/2021
Effective	09/04/2014	Cancellation	
Five Year Bu	ildout Date		
10/23/1996			
Control Poin	ts		
1	U.S. 23, HAROLD, KY		
Licensee			
FRN	0001786607	Туре	Limited Liability Company
Licensee			
East Kentucky Wireless 101 Technolo Ivel, KY 4164 ATTN W.A. Gi	y Network, LLC d/b/a Appalachian gy Trail 2 llum, General Manager / CEO	P:(606)477-23	55
Contact			
Lukas, Nace, Pamela L Gist 8300 Greenst McLean, VA 2	Gutierrez & Sachs, LLP : Esq poro Drive 2102	P:(703)584-86 F:(703)584-86 E:pgist@fcclaw	65 96 .com
Ownership a	and Qualifications		
Radio Service	Type Mobile		
Regulatory St	atus Common Carrier Interco	nnected Yes	
Alien Owner The Applicant	ship answered "No" to each of the Alien	Ownership quest	ions.
Basic Qualifi The Applicant	ications answered "No" to each of the Basic	c Qualification que	estions.

Demographics	
Race	
Ethnicity	Gender

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Exhibit 2

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EXHIBIT 2 – LIST OF PROPERTY OWNERS

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

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

<u>Section 1 (1)(I) 2.</u> 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)(1) 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.

<u>Section 2.</u> 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

Walter Collins Brady, Astor Estate 9901 Windfall Trace Louisville, KY 40223

Meredith Holbrook 180 Adams Street Salyersville, KY 41465

Mary L. and Hershel Spradlin Box 213 Stanville, KY 41659

Lorena Johnstone Estate C/O William Johnstone P.O. Box 112 Betsy Layne, KY 41605 Magoffin County Mobile Homes Et. Al. 106 Adams Street Salyersville, KY 41465

Paul D. Gearheart and Susan Gearheart Schmoldt P.O. Box 401 Harold, KY 41653

Emma and Callie Risner 5530 East Mountain Parkway Salyersville, KY 41465

Wampum Hardware Co. 636 Paden Road New Galilee, PA 16141

Meredith Holbrook 180 Adams Street Salyersville, KY 41465





PUBLIC NOTICE

August 28, 2020

Wampum Hardware Co. 636 Paden Road New Galilee, PA 16141

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00051)

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 Magoffin County. The facility will include a 400-foot guyed tower with attached antennas extending upwards, and an equipment shelter located on a tract of land near 4371 East Mountain Parkway, Salyersville, Magoffin county. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower or own property contiguous to the property upon which construction is proposed.

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

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to Case No. 2020-00051 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,

fun Herney

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1

101 Technology Trail - Ivel. KY 41642





PUBLIC NOTICE

August 28, 2020

Emma and Callie Risner 5530 East Mountain Parkway Salyersville, KY 41465

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Sincerely,

your Henry

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1

101 Technology Trail • Ivel, KY 41642





PUBLIC NOTICE

August 28, 2020

Paul D. Gearheart and Susan Gearheart Schmoldt P.O. Box 401 Harold, KY 41653

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Sincerely,

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1





PUBLIC NOTICE

August 28, 2020

Magoffin County Mobile Homes Et. Al. 106 Adams Street Salyersville, KY 41465

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Sincerely,

u De

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1





PUBLIC NOTICE

August 28, 2020

Lorena Johnstone Estate C/O William Johnstone P.O. Box 112 Betsy Layne, KY 41605

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Sincerely,

nu Henry

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1

101 Technology Trail • Ivel, KY 41642





PUBLIC NOTICE

August 28, 2020

Mary L. and Hershel Spradlin Box 213 Stanville, KY 41659

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Sincerely,

m &

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1

101 Technology Trail - Ivel, KY 41642





PUBLIC NOTICE

August 28, 2020

Meredith Holbrook 180 Adams Street Salyersville, KY 41465

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MA

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1

101 Technology Trail - Ivel, KY 41642





PUBLIC NOTICE

August 28, 2020

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Sincerely,

Lynn Haney, CPA Regulatory Compliance Director Enclosure 1

Salyersville Replacement

Short Fork Rd

Location:

4371 East Mountain Parkway Salyersville, KY 41465

Coordinates:

37° 43' 9.24" 82° 58' 42.15"

d Dr

Google Earth

ng Fork Rd

© 2020 Google

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Salyersville Replacement

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867

Exhibit 3

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



To:	Salyersville Independent	From:	Raina Helton
	Attn: Classifieds		Regulatory Compliance Assistant
Email:	jo@salyersvilleindependent.com	Date:	August 26, 2020
Re:	PUBLIC NOTICE ADVERTISEMENT	Pages:	1

Please place the following Public Notice Advertisement in the Salyersville Independent to be ran on September 3,2020.

PUBLIC NOTICE:

RE: Public Service Commission of Kentucky (CASE NO. 2020-00051)

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 4371 East Mountain Parkway, Salyersville, Magoffin County, Kentucky. The proposed tower will be a 400 foot guyed 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. 2020-00051.

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

Thank you,

Raina Helton, CKP Regulatory Compliance Assistant

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

Next Generation Communications





August 28, 2020

Matthew C. Wireman P. O. Box 430 Salyersville, KY 41465

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2020-00051)

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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.

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Sincerely,

Legue Haney

Lynn Haney, CPA Regulatory Compliance Director Enclosure

101 Technology Trail - Ivel KV A1641

Salyersville Replacement

Short Fork Rd

Salyersville Replacement

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4000

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867

Location:

4371 East Mountain Parkway Salyersville, KY 41465

Coordinates:

37° 43' 9.24" 82° 58' 42.15"

rd-Dr

Burr Rd

© 2020 Google

ing Fork Ra

Google Earth

Exhibit 4

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C

230 Swartz Drive • Hazard • Kentucky • 41701



Phone (606) 551-1050

EAST KENTUCKY ENGINEERING, LLC.

APPALACHIAN WIRELESS Geotechnical Investigation on the Salyersville Tower Site Magoffin County, Kentucky EKYENG Project No. 165-000-0097

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

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



EAST KENTUCKY ENGINEERING, LLC.



EXECUTIVE SUMMARY

1.0 INTRODUCTION 2.0 PROJECT DESCRIPTION

3.0 SITE DESCRIPTION & HISTORICAL MINING

- 3.1 GENERAL INFORMATION
- 3.2 SURFACE MINING
- 3.3 UNDERGROUND MINING
- 3.4 FLOOD HAZARD

4.0 FIELD EXPLORATION

- 4.1 SITE INFORMATION
- 4.2 BORING DATA
- **4.3 GROUNDWATER**
- 4.4 SEISMIC SITE CLASSIFICATION

5.0 DISCUSSION AND RECOMMENDATIONS

5.1 GENERAL

- 5.2 SHALLOW MAT FOUNDATIONS RECOMMENDATIONS
- 5.3 ANCHORS
- 5.4 BURIED UTILITIES

6.0 WARRANTY

6.1 SUBSURFACE EXPLORATION

- 6.2 LABORATORY AND FIELD TEST
- 6.3 ANALYSIS AND RECOMMENDATIONS
- 6.4 CONSTRUCTION MONITORING

6.5 GENERAL

SPECIFICATIONS

I - GENERAL

II - ENGINEERED FILL BENEATH STRUCTURES CLEARING AND GRADING

SPECIFICATIONS

- **III GUIDELINES FOR EXCAVATIONS AND TRENCHING**
- **IV GENERAL CONCRETE SPECIFICATIONS**
- V DRILLED PIER INSTALLATION
- APPENDIX A BORING LOGS
- APPENDIX B CORE PHOTOGRAPHS
- APPENDIX C- SEISMIC DATA
- **APPENDIX D PHOTOGRAPHS**
- APPENDIX E- MAPS



EXECUTIVE SUMMARY

A geotechnical investigation has been performed on the Salyersville Tower Site, located in Magoffin County, Kentucky. This site is readily accessible. A location map is shown in Figure 1 of this report. Four (4) borings were advanced to a maximum depth of 25.0 ft. The following geotechnical considerations were identified:

- Borings utilized for this study encountered thin soils with broken rock and clays to a depth of 7.5 ft., then a band of coal from 7.5 to 8.2 ft., then sandstone to a depth of 25.0 ft.
- The estimated maximum base elevation of tower mat foundation is 1253 ft which is below the existing small coal band.
- This site is on a forested knob, next to an existing tower.
- The allowable bearing capacities is estimated at 5 tsf on this shale unit from 1253' to 1247'.
- Additional recommendations for the guy anchor locations are included in section 5 of this report.
- The 2015 International Building Code seismic site classification for this site is "A".
- If during the foundation design it becomes necessary to lower or raise the footer, alternate design recommendations can be provided by EKYENG.
- Close monitoring of the construction operations discussed herein will be critical in achieving the design subgrade support. We, therefore, recommend that EKYENG is 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

East Kentucky Engineering (EKYENG) was retained by Mr. Stanton Neece of Appalachian Wireless to prepare a geotechnical engineering report for the proposed tower site located on the Salyersville Property, in Magoffin County, Kentucky. A site location map is shown in Figure No. 1.

Four (4) borings were advanced to a maximum depth of 25.0 ft. Horn and Associates, Inc. provided drilling services to obtain these borings. Logs of the borings along with a boring location plan are included in Appendix A and Appendix D. The purpose of these services is to provide information and geotechnical engineering recommendations about 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. The footing area is estimated to be 12.5 ft. X 12.5 ft. with an estimated base of the tower footer elevation at 1253.0 ft. Based on information provided, we estimate the structural loads will be like the following conditions;

CONDITION	LOAD	
Total Shear	40 Kips	
Axial Load	50 Kips	

We anticipate that overturning will govern the structural design. If the loading is significantly different than these expected values, EKYENG should be notified to re-evaluate the recommendations provided in this report.

3.0 SITE DESCRIPTION & HISTORICAL MINING





3.1 GENERAL INFORMATION

The site location is on a forested knob, next to an existing tower in Magoffin County, Kentucky. The current surface elevation is approximately 1258.0ft. Research on the historical mining was conducted by obtaining previous mine license maps from the "Kentucky Mine Mapping Information System" (KMMIS).

3.2 SURFACE MINING

No issues from surface mining activities are expected at this site location.

3.3 UNDERGROUND MINING

No underground mines were found within the vicinity of this site. Therefore, no subsidence issues are anticipated.

3.4 FLOOD HAZARD

A potential flood determination was conducted by EKYENG. For this determination, the FEMA Flood Map Service was reviewed for this location. The flood map for the selected area is number **21153CO230E-210158**. The flood zone for this area is Zone X and is an area of minimal flood hazard. A FIRMette map is included in Appendix E of this report.

4.0 FIELD EXPLORATION

4.1 SITE INFORMATION

The proposed site is located on a forested knob, next to an existing tower in Magoffin County, Kentucky. The site lies within the lvyton Quadrangle. The site is readily accessible by conventional exploratory equipment. An estimated pad location was determined based on the information provided. Foundation dimensions were estimated to be a 12.5 ft. X 12.5 ft. footer for this report.





4.2 BORING DATA

Four (4) borings were made in the relative positions shown on the Site Map in Appendix D. The boring logs and resulting data are included in Appendix A. These borings were made with a track mounted boring rig using hollow-stem augers and employing standard penetration resistance methods (ASTM D-1586, which includes 140-pound hammer, 30-inch drop, and two-inch-O.D. split-spoon sampler) at maximum depth intervals of five feet or at major changes in stratum, whichever occurred first. The disturbed split-spoon samples were visually classified, logged, sealed in moisture-proof jars, and taken to the EKYENG laboratory for study. The depths where these "A"-type split-spoon samples were collected are noted on the boring logs. The results of the natural moisture contents by boring and interval are shown in Table 2.

TABLE 2

RESULTS OF NATURAL MOISTURE CONTENT TESTS (ASTM D-4643)

SAMPLE NO.	DEPTH INCREMENT, (FT.)	NATURAL MOISTURE CONTENT, %
B1 S-1	0.0 – 1.5	17.4%
B1 S-2	2.0 - 3.5	11.2%
B1 S-3	4.0 - 5.5	20.9%
B1 S-4	6.5 - 7.2	COAL
B2 S-1	0.0 – 1.5	14.0%
B2 S-2	2.0 - 3.5	20.9%
B2 S-3	4.0 - 5.5	14.0%
B3 S-1	0.0 - 0.4	16.7%
B4 S-1	0.0 – 1.5	13.7%



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B4 S-2	2.0 - 3.5	17.1%
B4 S-3	4.5 - 5.6	13.3%

The position at which the core was taken is indicated on the boring logs and shown on the sitemap in Appendix D. The corresponding blow counts are shown in Table No. 3.

TABLE NO. 3

STANDARD PENETRATIONS

SAMPLE NO.	DEPTH	BLOW COUNT /	DESCRIPTION
	INCREMENT	RQD *	
B-1	0.0-1.5	2-3-4	Topsoil, Br. Clay, Rock Fragments
B-1	2.0-3.5	5-7-11	Brown Clay, Rock Fragments
B-1	4.0-5.5	7-15-10	Weathered Shale
B-1	6.5-8.2	14-35-50/2	Coal
B-1	9.0-16.0	4.0*	Gray Sandy Shale
B-1	16.0-25.0	5.5*	Gray, Brown Sandstone
B-2	0.0-1.5	1-3-3	Topsoil, Clay
B-2	2.0-3.5	2-3-4	Clay
B-2	4.0-5.5	7-12-16	Weathered Shale
B-2	6.5-6.7	50/2	Weathered Shale
B-2	9.0-15.0	0*	Weathered Shale
B-2	15.0-20.0	1.7*	Brown Shale
B-3	0.0-0.4	50/4	Topsoil
B-3	2.0-2.1	50/1	Weathered Sandstone
B-3	4.0-14.0	2.0*	Gray Shale
B-3	14.0-20.0	1.9*	Gray Shale, Sandstone
B-4	0.0-1.5	2-2-3	Topsoil, Brown Clay


SAMPLE NO.	DEPTH	BLOW COUNT /	DESCRIPTION
	INCREMENT	RQD *	
B-4	2.0-3.5	4-6-15	Brown Clay
B-4	4.5-5.6	15-26-50/1	Weathered Shale
B-4	6.0-16.0	2.5*	Weathered Shale
B-4	16.0-20.0	2.0*	Weathered Shale

The borings encountered clays and broken rock to a depth of 4.1 ft. The four borings were extended by "NX" size rock core that were taken to confirm the presence of rock at the site and to determine its physical characteristics. The core was made with "NX" size diamond coring equipment. These borings are between 4.0 ft and 25.0 ft in depth. The position at which the core was taken is indicated on the boring logs and shown on the boring location map in Appendix D.

4.3 GROUNDWATER

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

4.4 SEISMIC SITE CLASSIFICATION

Based on the encountered soil conditions at the project site, the site classification was determined to be "Site Class A" per the 2015 Kentucky Building Code. In addition, an S_{DS} coefficient of 0.097 g was calculated, and an S_{D1} coefficient of 0.044 g was also calculated for design based on the aforementioned building code.



5.0 DISCUSSION AND RECOMMENDATIONS

5.1 GENERAL

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

5.2 SHALLOW MAT FOUNDATIONS RECOMMENDATIONS

It is expected that shallow foundations will be used at the base of the proposed tower. It should be noted that the material type and bearing capacity can vary significantly due to the inconsistency of the underlying material. Based on the laboratory and field testing, visual inspection of the materials and practical experience we have estimated that the allowable bearing capacity at this site will be 5 tsf within the shale unit immediately below a small coal seam from an elevation of 1253 ft to 1247 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 4000 psi. concrete below the foundation base. 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.

Support structure for this tower can be placed as needed. It is recommended that test pits are examined to ensure that any of these structures are on the competent



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

5.3 ANCHORS

There are currently three anchors associated with this tower. The existing depths and dimensions are unknown. Anchor blocks used to restrain the tower are designed to resist both vertical (uplift) and horizontal components of tensile forces in the guy wires. Uplift forces are resisted by the dead weight of the anchor block and friction between the sides of the anchor block and surrounding soils, provided the sides of the block were cast in direct contact with undisturbed natural materials or properly compacted and approved fill.

The horizontal component can be resisted by the passive pressure of soil acting on the vertical side of the block facing the tower and friction between the block and the underlying soil. Allowable coefficient of friction values of 0.2 and 0.4 times the effective normal force (in excess of uplift force) transferred by the block to the



subgrade can be used to determine allowable frictional sliding resistance for the underlying natural soils and highly weathered sandstone, respectively.

The following table presents the allowable design criteria for the tower's anchor blocks. In the table, the allowable side friction and lateral pressure values have safety factors of approximately 2. Design parameters shown in the table are applicable to the natural, undisturbed soils and engineered backfill, but should not be applied to disturbed materials or newly placed fill materials. Engineered backfill is considered on-site soils that are placed in standard Proctor dry density (ASTM D-698). The backfill should be placed at a workable percent compaction. Because soil strength varies due to frost action and moisture variation, and the proximity to rock, we recommend neglecting passive and frictional resistances for the soils within three (4) feet of the ground surface.

Guy No. (Depth)	Eff Unit Weight	Allowa Fri	able Side ction	Allowable Press	Passive ure	Estimated Shear Strength
FT.	(PSF)	Initial Value	Increase Per Foot of Depth	Initial Value	Increase Per Foot of Depth	Angle of Friction (Degrees)
B2						
0.0-4.1	120	30				الفتعا
4.1-17.7	140	1000		3500	120	22
17.7 20	140	1500		12000	120	27
B3						
0.0 - 4.0	120	30)			
2.1-14.0	140	1000	50	2500	120	22
14.0-20.0	150	2000	100	12000	150	30
B3						
0.0 - 4.0	120	30				
4.0-15.0	140	1000	50	2500	120	22
15.0-20.0	140	1500	100	12,000	120	27

TADLE NO. 4	BLE NO.	4
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5.4 BURIED UTILITIES

Excavations for buried utility pipelines should follow the guidelines set forth in this report. Depending on the pipeline material, a minimum thickness of at least 0.5 feet of select fine-grained granular bedding material should be used beneath all below-grade pipes, with a minimum cover thickness of at least 3 feet to afford an "arching" effect and reduce stresses on the pipe. The cover thickness may be reduced if the external loading condition on the pipe is relatively light or if the pipe is designed to withstand the external loading condition. It is not recommended that "pea-gravel" or other "open-work" aggregates be used for trench backfill since these materials are nearly impossible to compact and tend to pond water within their interstices.

6.0 WARRANTY

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

While the services of EKYENG are a valuable and integral part of the design and construction teams, we do not warrant, guarantee, or 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 by specific ASTM standards unless otherwise indicated. All determinations included in each ASTM standard are not always required and performed. Each test report indicates the measurements and determinations made.

6.3 ANALYSIS AND RECOMMENDATIONS

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

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



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

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 Salyersville Property located in Magoffin 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 conclusions regarding specific construction techniques and methods that were chosen. EKYENG is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploratory and laboratory test data presented in this report.



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 based on 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

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provided. In no case shall such objectionable material be allowed in or under the fill unless specifically authorized in writing.

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

4.0 FORMATION OF FILL AREAS

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

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 always.

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

In the construction of filled areas, starting layers shall be placed in the deepest portion of the fill, and as placement progresses, additional layers shall be constructed in horizontal planes. Original slopes shall be 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 always during benching and filling of the benches, to ensure 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.



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

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

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

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

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

- 2. Access and egress ramps must be designed by a "competent person" and structural ramps used for equipment must be designed by a "competent person" with qualified knowledge in structural design. In addition:
 - Ramps must be secured to prevent displacement;
 - Ramps used in lieu of steps must have cleats to prevent slipping; and
 - 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 (always while performing work in the confined space) a separate lifeline 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 reenter 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 lose 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. <u>Fine and Coarse Aggregates:</u> 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. <u>Fine Aggregate:</u> 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. <u>Coarse Aggregate:</u> 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. <u>Portland Cement:</u> 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 <u>not</u> be used unless indicated on the plans.
- C. <u>Water:</u> Water for mixing and curing shall be clean, fresh, and free from deleterious materials.
- D. <u>Metal Reinforcement:</u> 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. <u>Admixtures:</u> 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 FORM

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

5.0 INSERTS, ETC.

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

6.0 REINFORCEMENT

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



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 airentrained. 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. <u>Preparation for Placing Concrete:</u> Before depositing concrete, the Contractor shall:

1.

- Remove from space to be occupied by concrete all debris, including snow, ice, and water unless otherwise permitted by Owner.
- 2. Provide diversion, satisfactory to Owner, of any flow of water to an excavation to avoid washing the freshly deposited concrete.
- 3. Coal the forms prior to placing of reinforcing steel as required in form work.
- Secure firmly in correct position, all reinforcement and other items to be encased and remove therefrom all coating including ice and frost.
- B. <u>Transportation of Concrete from Batch Plant</u>: 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. <u>Transporting of Concrete from Mixer to Place of Final Deposit:</u> Transportation shall be done as rapidly as practical by means which shall prevent the separation or loss of the ingredients. If chutes are used, they shall be at a slope not flatter than one vertical to two horizontal. Buggies or carts shall be equipped with pneumatic rubber tires or surfaces of runways shall be sufficiently smooth or both so as not to cause separation or segregation of concrete ingredients. Concrete shall not be allowed to drop freely more than 4 feet. Where greater drops are required, canvas "elephant trunks" or galvanized iron chutes equipped with suitable hopper heads shall be employed and a sufficient number placed to ensure that the concrete may be effectively compacted into horizontal layers not exceeding 12 inches in thickness with minimum lateral movements.
- D. <u>Depositing of Concrete:</u> 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 to maintain constantly a top surface which is approximately level.
 - 4. Be placed before initial set has occurred, and in no event after it has contained its water content for more than 90 minutes.
 - 5. Be thoroughly worked and compacted by means of suitable tools to provide impermeability, durability and strength and shall be thoroughly worked around reinforcements and embedded items and into corners of forms and to be free from voids, pockets or honeycombing. Care shall be taken to provide impermeability.
- E. <u>Vibration Equipment:</u> Vibration equipment shall be of the appropriate type and shall, always, be adequate in number of units and power of each unit to properly consolidate all concrete.
- F. <u>Monolithic Pours:</u> Proper delivery of concrete shall be the Contractor's responsibility 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 is 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 deflects corrects, protrusions removed, and holes filled.



APPENDIX A BORING LOGS



APPENDIX B CORE PHOTOGRAPHS



















APPENDIX C SEISMIC DATA



Latitude, Longitude: 37.719283, -82.978383

(114)

Kelly Branch Rd

OSHPD

Map data ©2020

Google

Site Class

Date	
Design Code Reference	Document
Risk Category	

(114)

2/16/2020, 3:29:50 PM
IBC-2015
IV
A - Hard Rock

Туре	Value	Description
SS	0.182	MCE _R ground motion. (for 0.2 second period)
S ₁	0.083	MCE _R ground motion. (for 1.0s period)
S _{MS}	0.145	Site-modified spectral acceleration value
SMI	0.067	Site-modified spectral acceleration value
S _{DS}	0.097	Numeric seismic design value at 0.2 second SA
S _{D1}	0.044	Numeric seismic design value at 1.0 second SA
Туре	Value	Description
SDC	A	Seismic design category
Fa	0.8	Site amplification factor at 0.2 second
Fv	0.8	Site amplification factor at 1.0 second
PGA	0.086	MCE _G peak ground acceleration
FPGA	0.8	Site amplification factor at PGA
PGAM	0.069	Site modified peak ground acceleration
TL	12	Long-period transition period in seconds
SsRT	0.182	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	0.197	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.083	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.092	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value, (1.0 second)
PGAd	0,6	Factored deterministic acceleration value. (Peak Ground Acceleration)
C _{RS}	0.922	Mapped value of the risk coefficient at short periods
C _{R1}	0.905	Mapped value of the risk coefficient at a period of 1 s

DISCLAIMER

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APPENDIX D PHOTOGRAPHS







APPENDIX E MAPS

Nationa Flood Hazard Layer FIRMette)



Legend

37°43'21.92"N SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **Regulatory Floodway** HAZARD AREAS 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone) Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone - ---- Channel, Culvert, or Storm Sewer GENERAL STRUCTURES IIIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation AREA OF MINIMAL FLOOD HAZARD Magoffin County (a)- - - Coastal Transect Base Flood Elevation Line (BFE) ZoneX 210158 Limit of Study Jurisdiction Boundary ---- Coastal Transect Baseline OTHER **Profile Baseline** 21153 C0230 E FEATURES Hydrographic Feature eff. 9/16/2015 **Digital Data Available** No Digital Data Available MAP PANELS \mathbf{X} Unmapped The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/3/2020 at 2:23:37 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, USGS The National Map: Orthoimagery. Data refreshed April, 2019. legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for 37°42'53.46"N 1:6,000 Feet unmapped and unmodernized areas cannot be used for regulatory purposes. 250 500 1,000 1,500 2,000







World Tower COMPANY, INC.

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

400' TYPE 36SR TOWER FOR: APPALACHIAN WIRELESS SITE: SALYERSVILLE MAGOFFIN COUNTY, KY DESIGN PACKAGE



Fabrication, Installation, and Maintenance of TV, AM, FM, & Wireless Communications Towers

			GUY	WIRE	DATA	Ą				
ELEV.	SIZE	BREAK	INITIAL	CUT	LEN	IGTH	SHACKLE	THIMBLE		
790'	7/4 546	51KLNOTT	5830	300'(-3')	300'(-22')	550'(-46')		7/0	1 1 /4	NLL
340'	0/16 EUS	35000	3500	195'	500'	520'	7/4	7/0	1 1/4	X
270'	9/16 EHS	35000	3500	435'	450'	465'	3/4	3/4	1	Ŷ
2@210'	1/2 FHS	26900	2690	2@305	2@410	12@425	5/8	5/8	7/8	v
140'	0/16 EHS	35000	3500	360'	370'	390'	3/0	3/0	1/0	×
70'	9/10 EH3	36000	2690	340'	310'	350'	5/9	5/4	7/0	×
			GENERA	.L	NOTE	S	_			
4. LEG S	TEEL IS 50 KS	SI MIN. YIELD	A153. SOLID ROUN A325.	D AND	BRACIN	IG STEE	L IS 36 KSI	MIN. YIELD	SOLID R	OUN
 LEG S ALL S GUY L TOWER TOWER ASSIST 	TEEL IS 50 K TRUCTURAL BC ENGTHS SHOW SECTIONS AR SHOULD BE INSPECTION TANCE IN PROF	SI MIN. YIELD DITS ARE ASTM IN ARE CHORD RE NUMBERED INSPECTED IN SHOULD ONLY PER MAINTENAN	A153. SOLID ROUN A325. LENGTHS F CONSECUTIV ACCORDANC BE PERFOR ICE OF YOU	D AND PLUS 30 ELY FRO E WITH MED BY IR TOWE	BRACIN O'. OM BAS TIA-22 (EXPEI ER, CAL	IG STEE SE TO T 22-G E RIENCEE L WORL	CL IS 36 KSI OP. VERY 3 YEAR QUALIFIED F D TOWER @	MIN. YIELD S. PERSONNEL. 270–247–3	SOLID R FOR 642.	OUN
4. LEG S 5. ALL S 6. GUY L 7. TOWER 8. TOWER 9. TOWER ASSIST	TEEL IS 50 K TRUCTURAL BC ENGTHS SHOW SECTIONS AR SHOULD BE INSPECTION TANCE IN PROF	SI MIN. YIELD VITS ARE ASTM IN ARE CHORD E NUMBERED INSPECTED IN SHOULD ONLY PER MAINTENAN	A153. SOLID ROUN A325. LENGTHS F CONSECUTIV ACCORDANC BE PERFOR ICE OF YOU	D AND ELUS 3C ELY FRO E WITH MED BY IR TOWE	BRACIN OM BAS TIA-22 C EXPEI ER, CAL	NG STEE SE TO T 22-G E RIENCEEL L WORL 02/2	CL IS 36 KSI OP. VERY 3 YEAR QUALIFIED F D TOWER @ 7/2020	MIN. YIELD S. PERSONNEL. 270-247-3	SOLID R FOR 642.	OUN




ada	onals	gonal Grade Girts	tom Girts	rizontals	p Guy Pull-Offs	ce Width (ft) Panels @ (ft) sight (K) 22.2	0.0 ft 1 K 382 K 1 kip-ft	(Axial) (Torque)		8. TOWER	ALL REACTIONS ARE	E FACTORED	. 0.00 I I		81 K R=300.00 ft
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	0)				4 X 3/8	14	70.0 ft	1/2 EHS LC=320.03 ft IT=1	0%	GRADE A572-50	Fy 50 ksi	MATERIAI Fu 65 ksi	GRADE	GTH Fy 36 ksi	Fu 58 ksi
-	SR 7/8				19	-	80.0 ft			WD13X53 Ante WD13X53 Ante	nna Mounting Frame nna Mounting Frame	300 300	Dish Mount Dish Mount		180 180
					N	-				(4) RRU-12 WD13X53 Ante	nna Mounting Frame	370 300	8 FT DISH 8 FT DISH		180 180
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ίδ.	1				N.A.	10	300.0 ft	19.100			DES	IGNED APPUI	RTENANC	E LOADING	
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SR 1 3/4					6 × 1/2	60	360.0 ft	Jun Etta Locaste	S WILL	IAM B.					
3/4	S				/2 N.	0	<u>380.0 ft</u>		NITE OF	KENTU					



COMMONWEALTH OF KENTUCKY TRANSPORTATION CABINET transportation.ky.gov

Andy Beshear Governor Jim Gray Secretary

June 11, 2020

APPLICANT: East Kentucky Network, LLC East Kentucky Network, LLC 101 Technology Trail Ivel, KY 41642

SUBJECT: AS-MAGOFFIN-9KY9-2020-026

STRUCTURE:	Antenna Tower (Lighting Change)
LOCATION:	Ivyton, KY
COORDINATES:	37° 43' 09.25" N / 82° 58' 42.1531" W
HEIGHT:	410' AGL/1671'AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 410' AGL/1671'AMSL Antenna Tower near Ivyton, KY 37° 43' 09.25" N / 82° 58' 42.1531" 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.

Medium Intensity White Obstruction Lighting is required.

Randall S. Royer

Randall S. Royer, Acting Administrator Kentucky Transportation Cabinet Division of Road Fund Audits 200 Mero Street – 4th Floor East Frankfort, Kentucky <u>Randall.Royer@ky.gov</u> Jason.Salazar-Munoz@ky.gov



An Equal Opportunity Employer M/F/D



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177 Aeronautical Study No. 2020-ASO-4436-OE Prior Study No. 2009-ASO-2946-OE

Issued Date: 02/11/2020

Cindy D. McCarty East Kentucky Network, LLC 101 Technology Trail Ivel, KY 41642

**** 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 Salyersville			
Location:	Ivyton, KY			
Latitude:	37-43-09.25N NAD 83			
Longitude:	82-58-42.15W			
Heights:	1261 feet site elevation (SE)			
	410 feet above ground level (AGL)			
	1671 feet above mean sea level (AMSL)			

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

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 2, Obstruction Marking and Lighting, 24-hr med-strobes - Chapters 4,6(MIWOL),&12.

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

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

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

The use of a 24-hour medium intensity flashing white light system in urban and rural areas often results in complaints.

This determination expires on 08/11/2021 unless:

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

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-4436-OE.

Signature Control No: 429893881-430425918 Chris Smith Specialist

(DNE)

Attachment(s) Frequency Data Map(s) cc: FCC

Frequency Data for ASN 2020-ASO-4436-OE

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



Sectional Map for ASN 2020-ASO-4436-OE



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LEASE AGREEMENT

THIS LEASE, made and entered into this the 20^{44} day of <u>March</u>, 1992, by and between Paul R. Gearheart and Elaine Gearheart, his wife, P. O. Box 38, Harold, Floyd County, KY 41635, herein referred to as ("LESSOR") and HAROLD TELEPHONE COMPANY, INC.: MOUNTAIN TELECOMMUNICA-TIONS, INC.: CELLULAR SERVICES, INC.: AND THACKER-GRIGSBY TELEPHONE COMPANY, INC., CORPORATE PARTNERS d/b/a APPALA-CHIAN CELLULAR GENERAL PARTNERSHIP, P. O. Box 520, Harold, KY 41635, herein referred to as ("LESSEE").

RECITALS

A. Lessor is the owner of land located adjacent to KY Route 114 approximately one (1) mile northeast of Ivyton, Magoffin County, KY and more particularly described as follows:

TRACT NO 6 - Beginning on an Iron pin, on the north side of R.O.W. line of KY RT 114; thence a course N. 44 -00 E. for a distance at 188.31 to a tack in a hub; thence on a course N 70 - 20' E. for a distance of 97.22 to a tack in a hub; thence on a course S - 83 - 25 E. for a distance of 121.31 to a tack in a hub; thence on a course - 27 E. for a distance 173.89 to a tack in a hub; S-82 thence on a course S 57 -20 E. for a distance of 174.95 to a tack in a hub; thence on a course N 46 -08' E. for a distance of 194.35 to a tack in a hub; thence on a course N 52 -16 E. for a distance of 213.93 to a tack in a hub, being a corner of Tract No. 5; thence on a course N 55 24 W. for a distance of 1238.43 to a tack in a hub, being corner of Tract No. 5; thence on a course S23 - 28' W. for a distance of 121.32 to a tack in a hub; thence on a course S 21 - 28 W. for a distance of 159.05 to a tack in a hub; thence on a course S 30 - 52 W. for a distance of 59.51 to a tack in a hub; thence on a course S 34 - 55 E. for a distance of 151.53 to a tack in a hub; thence on a course S-6 -53E for a distance of 209.04 to a tack in a hub; thence on a course S-7 -17E for a distance of 261.72 to a tack in a hub: thence on a course S-19 -33E for a distance of 97.93 to the beginning point. Containing 13.13 acres, more or less.

B. Lessee wishes to lease space to construct a tower, necessary anchors and guys, and building to house cellular facilities, with non-exclusive right of ingress and egress for the provision of public cellular radio telephone communications services.

C. Lessor hereby leases the premises to Lessee and permits the construction and operation of the facilities pursuant to this Agreement.

(____)

NOW THEREFORE in consideration of the premises and the mutual agreements hereinafter set forth, the parties hereto agree as follows:

- 2 -

1. LEASE OF PREMISES. Lessor hereby leases the premises to Lessee and Lessee hereby accepts said lease from Lessor pursuant to all of the terms and conditions set forth herein.

2. TERM. The premises shall be leased to the Lessee for a period of five (5) years from the date of this lease agreement. The Lessee shall have the option to renew the lease for three (5) additional periods of the same duration upon giving written notice to Lessor of its intent to exercise the option at lease sixty (60) days before expiration of the lease term. In no event shall the lease and renewals thereof exceed a total of twenty (30) years.

3. PAYMENT. Lessee shall pay the sum of One Hundred (\$100.00) Dollars per month during the initial five (5) year term. Subsequent renewals shall be subject to the following terms and conditions: Monthly payment of One Hundred (\$100.00 Dollars for the tower space and appurtenant facilities.

Provided, however, that if any renewal or extension of this Lease is effectuated, the rental fees applicable thereto shall be the above stated amount plus any increase or increases commensurate with any and all changes in the Consumer Price Index (CPI); provided, however, that in no event shall the rental fees applicable to any term, renewal, or extension of this Lease be less than One Hundred (\$100.00) Dollars per month. In no event shall any increase in monthly rental fees exceed twenty-five percent (25%) of the rental payable per month for the immediately preceding term - renewal or extension.

4. CONDITIONS. Lessor and Lessee herein agrees to the following conditions:

4.1 The Lessee shall be responsible for carrying casualty insurance for damage to the System caused by fire, wind or and other casualty, and the Lessee shall be responsible for maintaining sufficient insurance to protect both Lessor and Lessee from any and all claims for personal injury, including death, resulting directly or indirectly from installation, maintenance, operation or removal of the System. - 3 -

5. NOTICE. All notices, requests, demands or other communications provided for herein or otherwise given shall be in writing and shall be deemed to have been given at a time when deposited in the United States mail, certified mail, postage prepaid, addressed to respective parties at the addresses stated below or at such other changed address which may be fixed by written notice:

> LESSOR: Paul R. and Elaine Gearheart P. O. Box 38 Harold, KY 41635

LESSEE: APPALACHIAN CELLULAR GENERAL PARTNERSHIP P. O. BOX 520 HAROLD, KY 41635

IN WITNESS WHEREOF, the parties have executed this agreement, this the day and year first above written.

LESSOR:

Elaine Gearheart

LESSEE:

APPALACHIAN CELLULAR GENERAL PARTNERSHIP

TITLE: MANAGING GENERAL PARTNER, PRESIDENT HAROLD TELEPHONE COMPANY, INC.

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STATE OF KENTUCKY COUNTY OF <u>Floyd</u>

The foregoing Lease was acknowledged to before me by Paul R. Gearheart and Elaine Gearheart, his wife, to be their free act and deed, this the <u>20th</u> day of <u>March</u>, 1992.

My commission expires: Not 19, 1995

Mary & Bush-

STATE OF KENTUCKY COUNTY OF FLOYD

The foregoing Lease was sworn and acknowledged before me by Lessee, Paul R. Gearheart, President, Harold Telephone Company, Inc., as General Partner for Appalachian Cellular General Partnership, to be his free act and deed, this 20^{44} day of <u>March</u>, 1992.

My commission expires: Oct 19, 1995

NOTARY PUBL



LEASE

THIS LEASE made and entered into this 2C day of March, 1991, by and between EMMA RISNER MULLINS AND ROSCOE MULLINS, HER HUSBAND, JACKIE NIEL RISNER, BOX 5530, EAST MOUNTAIN PARKWAY, SALVERSVILLE, KENTUCKY 41465, Parties of the First Part and FOOTHILLS RURAL TELEPHONE COOPERATIVE CORPORATION, INC.; MOUNTAIN RURAL TELEPHONE COOPERATIVE CORPORATION, INC.; THACKER-GRIGSBY TELEPHONE CO., INC.; HAROLD TELEPHONE COMPANY, INC., CORPORATE PARTNERS d/b/a APPALACHIAN CELLULAR GENERAL PARTNERSHIP, ACTING BY AND THROUGH HAROLD TELEPHONE COMPANY, INC., THE GENERAL PARTNER, P. O. BOX 520, HAROLD, KENTUCKY 41635, COLLECTIVELY, Party of the Second Part and hereinafter referred to as ("ACGP"),

WITNESSETH:

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WHEREAS, ACGP, through the Federal Communications Commission ("FCC"), has been awarded the right to construct facilities to provide a domestic public Cellular Radio Telephone System to serve the Kentucky 9-Elliott rural service area ("RSA"), comprising the counties of Elliott, Johnson, Lawrence, Martin, Magoffin, Morgan, Pike and Floyd and

WHEREAS, the parties of the First Part have consented to lease a portion of land to effect the establishment and construction of an intrical part of such system.

NOW, THEREFORE, in consideration of the sum of \$6,500.00, cash in hand paid, the receipt of which is hereby acknowledged, and in further consideration of the covenants and conditions herein contained, said Parties of the First Part do hereby let, lease, demise and set over unto ACGP, its successors and assigns, that certain tract or parcel of land located in Magoffin County, Kentucky, on the waters of Big Branch and located adjacent to Kentucky Route 114 approximately one mile northeast of Ivyton, Magoffin County, Kentucky, and being a part of the same property acquired by Emma Risner and Jackie Neil Risner under the Last Will and Testament of Callie Risner, dated June 11, 1982, probated and recorded October 22, 1989, and appearing of record in Will Book 3, at page 578, Magoffin County Court Clerk's Office and more particularly described as follows:

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Beginning at Point 656 thence N 2 degrees 27' 15" E - 16.67 feet to Point 646 thence N 2 degrees 27' E - 26.89 feet to Point 645 thence N 1 degree 29' 08" W - 56.70 feet to Point 644 thence N 5 degrees 48' 33" W - 14.84 feet to Point 643 thence N 4 degrees 57' 04" W - 66.14 feet to Point 642 thence N 9 degrees 40' 49" W - 73.56 feet to Point 641 thence N 11 degrees 53' 16" W - 18.24 feet to Point 100 thence N 8 degrees 41' 03" W - 35.92 feet to Point 101 thence N 8 degrees 18' 60" - .76 feet to Point 792 thence N 42 degrees 30' 15" E - 188.63 feet to Point 727 thence N 48 degrees 38' 15" E - 127.59 feet to Point 791 thence N 48 degrees 38' 15" E - 86.34 feet to Point 728 thence S 44 degrees 34' 58" E - 62.78 feet to Point 654 thence S 56 degrees 22' 57" W -248.67 feet to Point 794 thence S 26 degrees 22' 57" W - 148.21 feet to Point 793 thence S 3 degrees 37' 03" E - 270.26 feet to Point 653 thence S 86 degrees 22' 57" W - 47.81 feet to the point of beginning, containing 31390.0 sq. ft. or .721 acres.

IT IS FURTHER COVENANTED AND AGREED BY AND BETWEEN THE PARTIES hereto as follows:

1. The term of this Lease shall be for a period of twenty-

five years after the date hereof, with the exclusive option of ACGP to extend the leasehold period for an additional twenty-five years at the same rate of \$6,500.00 for said extended period. ACGP shall have the right to terminate this lease and abandon the premises under circumstances and conditions more fully set forth in numerical paragraph 5, herein. In the event of termination by ACGP during the initial twenty-five year term, the Parties of the First Part shall have no obligation to refund all or any portion of the leasehold rental payment.

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2. ACGP shall use this property for the purpose of constructing buildings, towers, guy lines, anchors and other related facilities, including, but not limited to telephone lines, CATV lines, power lines and any and all other equipment deemed necessary by ACGP to receive and transmit cellular telephone signals to Third Parties in the RSA to be served by the facility. The parties hereto recognize that technology in the communications field is advancing at a rapid rate and that this site may be used for any other purpose now in the development stage or which may later be developed in the communications industry to carry out the objectives of ACGP, that being to transmit and receive signals and communications by wire, radio and satellite.

3. ACGP agrees to indemnify and save harmless the Party of the First Part from any liability by virtue of ACGP's activities on the demised premises, and to maintain and keep in full force and effect public liability and property damage insurance in an

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amount of at least One Million Dollars.

The Parties of the First Part further grant unto ACGP 4. full and complete right of ingress, egress and regress over the above described property or over any other abutting or adjacent properties owned by said First Parties for the purpose of constructing, operating and maintaining the facilities, above referred to, which shall include the construction of such access roads as may be necessary.

In the event that ACGP is unable to continue to provide 5. domestic public cellular radio communications, through insolvency or through actions of the FCC or other regulatory agencies or for any other unforeseeable reason, then ACGP shall be permitted to remove all of the equipment and improvements placed on the demised premises and be further released from any and all obligations hereunder.

The Parties of the First Part state that they will 6. warrant the title to the property herein demised under covenant of General Warranty.

IN WITNESS WHEREOF, the Parties have hereunto set their hand as of the day and year first above written.

PARTIES OF THE FIRST PART:

MMA RISNER MULLINS

SCOE MULLINS

JACKIE NIEL RISNER

PARTY OF THE SECOND PART:

APPALACHIAN CELLULAR GENERAL PARTNERSHIP BY HAROLD TELEPHONE COMPANY, INC., GENERAL PARTNER

BY: PAUL R. GEARHEART, PRESIDENT

HAROLD TELEPHONE COMPANY, INC.

STATE OF KENTUCKY COUNTY OF MAGOFFIN

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The foregoing Lease was acknowledged to before me by Emma Risner, Roscoe Mullins and Jackie Niel Risner, Parties of the First Part, to be their free act and deed, this the 20^{TH} day of March, 1992.

My commission expires: _

NØTARY PUBLIC

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STATE OF KENTUCKY COUNTY OF FLOYD

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The foregoing Lease was sworn and acknowledged before by Paul R. Gearheart, President, Harold Telephone Company, as General Partner for Appalachian Cellular General Partnership, to be his free act and deed, this the 20^{-H} day of March, 1992.

My commission expires: _

Sel TARY PUBLIC

The foregoing instrument was prepared by:

CLIFFORD B. LATTA LATTA & BROWN

LATTA & BROWN P. O. BOX 550 PRESTONSBURG, KY 41653 (606) 886-8132







02/06/2020 DATE 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 150' NOTE: SEE FOUNDATION DRAWINGS FOR DETAILS 50 L. L 12305 100 11 : 5 SCALE 50' (9) James W. CAUDILL ô SNS 425.6 Proposed Tower Replacement for Existing Salyersville Tower Site Off of KY Route 114 Near lyyton in Magoffin County, KY. Salyersville(lvyton)/sv50 41642 East Kentucky Network d/b/a Appalachian Wireless Technology Trail, Ivel, KY 4 PROJECT NO. DATE 02/06/2020 2 đ SHEET DATE N APPROVED 50' 101 DRAWN JWC SCALE 11 -

Utility ID	Utility Name	Utility Type	Class	City	State
4107900	365 Wireless. LLC	Cellular	D	Atlanta	GA
4109300	Access Point, Inc.	Cellular	D	Cary	NC
4108300	Air Voice Wireless, LLC	Cellular	Α	Bloomfield Hill	MI
4110650	Alliant Technologies of KY, L.L.C.	Cellular	С	Morristown	IJ
44451184	Alitel Communications, LLC	Cellular	A	Basking Ridge	NJ
4110850	AltaWorx, LLC	Cellular	C	Fairhope	AL
4107800	American Broadband and Telecommunications Company	Cellular	С	Toledo	ОН
4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
4110700	Andrew David Balholm dba Norcell	Cellular	C	Clavton	WA
4108600	BCN Telerom Inc	Cellular	Ď	Morristown	NJ
4110550	Blue Casa Mobile 11C	Cellular	D	Santa Barbara	CA
4109750	Blue tay Mirolose 11C	Collular	c -	Carroliton	TX
4108730	BlueBird Communications 11C	Collular	c c	New York	NV
4111030	Bluegrass Wireless 11C	Cellular	۰ ۱	Elizabethtown	
4202500		Cellular	A	Hiswoths	
4107600	Boomerang wheless, LLC	Cellular	0	Couthfield	
4105500	Bullseye Telecom, Inc.	Cellular	D	Southnield	
4110050	CampusSimS, Inc.	cellular	0	BOSTOR	
4100700	Celico Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	
4105600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
4111000	ComApp Technologies LLC	Cellular	C	Melrose	
4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	
4108850	Cricket Wireless, LLC	Cellular	Α	San Antonio	<u> </u>
4001900	CTC Communications Corp. d/b/a EarthLink Business I	Cellular	D	Grand Rapids	MI
10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	Α	ivel	KY
4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK_
4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
4105900	Flash Wireless, LLC	Cellular	С	Concord	NC
4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
4102200	Globalstar USA, LLC	Cellular	В	Covington	LA
4109600	Google North America Inc.	Cellular	Α	Mountain View	CA
33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
4110600	Horizon River Technologies, LLC	Cellular	Ċ	Atlanta	GA
4103100	i-Wireless, LLC	Cellular	Ā	Newport	KY
4109800	IM Telecom. LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	ОК
22215360	KDDI America, Inc.	Cellular	D	New York	INY
10872	Kentucky RSA #1 Partnership	Cellular	Δ	Basking Ridge	NI
10680	Kentucky RSA #3 Cellular General	Cellular	Δ	Flizabethtown	KY
10681	Kentucky RSA #4 Cellular General	Cellular	Δ	Elizabethtown	TRY .
4109750	Konatel, Inc. dba telecom mohi	Cellular	<u> </u>	Ichostown	PA
4110900	lunar labs Inc	Cellular	c	Detroit	MI
4107200	Ivramohile USA Inc.	Collular	ř.	Newark	
4109900	MetroDCS Michigan 11C	Collular		Rollogic	
4100000	Mital Cloud Sanicas Inc	Collular		More	
4103030	New Cingular Mirolase DCS LLC dbs ATOT Machilles DCS	Collular	K	San Antonia	₩_
4202400	New Ongular Wireless PCS, LLC and AT&T MODILITY, PCS	Cellular	A		
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4001300	INPLK, INC. ODA Nextel Partners	Cellular	D	Overland Park	IKS

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S & S Tower Services 120 Branden Dr. Mousie, KY 41839

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

Dear Commissioners:

The Construction Manager for the proposed communications facility will be Dave Strausbaugh. His contact information is (606) 497-6730 or <u>dstrausbaugh010@gmail.com</u>.

Dave has been in the industry completing civil construction and constructing towers since 1991. He has worked for S&S Tower Services since 2015 as Construction Manager overseeing the construction of telecommunications towers and sites.

Thank you,

Chris Thaught /1

Chris Strausbaugh / Owner S&S Tower Services (606) 497-5798