

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

FEB 04 2016

PUBLIC SERVICE
COMMISSION

In the matter of:

THE APPLICATION OF EAST KENTUCKY NETWORK)
LIMITED LIABILITY COMPANY FOR THE ISSUANCE)
OF A CERTIFICATE OF PUBLIC CONVENIENCE AND) CASE No 2015-00421
NECESSITY TO CONSTRUCT A TOWER IN HARLAN)
COUNTY, KENTUCKY).

East Kentucky Network, LLC, d/b/a Appalachian Wireless, was granted authorization to provide Personal Communications Service ("PCS") in the Middlesboro-Harlan, KY Basic Trading Area (BTA295) by the Federal Communications Commission (FCC). FCC license is included as Exhibit 1. East Kentucky Network, LLC merger documents were filed with the Commission on February 2, 2001 in Case # 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 Harlan County, East Kentucky Network, LLC pursuant to KRS 278.020 Subsection 1 and 807 KAR 5:001 Section 9 is seeking the Commission's approval to construct a 180 foot self-supporting tower on a tract of land located at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky (36°57'47.0745"N 82°54'26.9405"W). A map and detailed directions to the site can be found in Exhibit 7.

Exhibit 2 is a list of all Property owners according to the property valuation administrator's record who own property within 500 feet of the proposed tower in accordance with the Property Valuation Administrator.

Pursuant to 807 KAR 5:063 Section 1 (1)(L) and Section 1(1)(n)(1) all affected property owners according to the property valuation administrator's record who own property within 500 feet of the proposed Tower 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.

Harlan County has no formal local planning unit. In absence of this unit the Harlan County Judge Executive's office was notified by certified mail, return receipt requested of East Kentucky Network Limited Liability Company'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 Harlan Daily Enterprise, February 3, 2016, edition. Enclosed is a copy of that notice in Exhibit 3. The Harlan Daily Enterprise is the newspaper with the largest circulation in Harlan County.

Environmental Resources Management Consulting Company 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 Tower Innovations and will be constructed under their supervision. Their qualifications are evidenced in Exhibit 5 by the seal and signature of the registered professional engineer responsible for this project.

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

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

No Federal Communications Commission approval is required prior to construction of this facility. Once service is established from this tower we must immediately notify the Federal Communications Commission of its operation. Prior approval is needed only if the proposed

facility increases the size of the cellular geographic service area. This cell site will not expand the cellular geographic service area.

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

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

Two notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2), measuring at least two (2) feet in height and four (4) feet in width and containing all required language in letters of required height, have been posted, one at a visible location on the proposed site and one on the nearest public road. The two signs were posted on December 23, 2015, 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 located in the city limits of Lynch on a piece of land previously developed.

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

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

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

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

The foregoing document was prepared by Cindy D. McCarty, Staff Attorney for East Kentucky Network, LLC d/b/a Appalachian Wireless. All related questions or correspondence concerning this filing should be mailed to East Kentucky Network, LLC d/b/a/ Appalachian Wireless, 101 Technology Trail, Ivel, KY 41642.

SUBMITTED BY: Lynn Haney DATE: 2/2/2016
Lynn Haney, Regulatory Compliance Director

APPROVED BY: W.A. Gillum DATE: 2-2-2016
W.A. Gillum, General Manager

ATTORNEY: Cindy D. McCarty DATE: 2/2/2016
Hon. Cindy D. McCarty, Attorney

CONTACT INFORMATION:

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

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

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

Mailing Address:

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

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

ULS License

PCS Broadband License - WQEF975 - East Kentucky Network, LLC d/b/a Appalachian Wireless

Call Sign	WQEF975	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular
Market			
Market	MTA044 - Knoxville	Channel Block	A
Submarket	12	Associated Frequencies (MHz)	001850.00000000-001865.00000000 001930.00000000-001945.00000000

Dates

Grant	05/27/2015	Expiration	06/23/2025
Effective	05/27/2015	Cancellation	

Buildout Deadlines

1st	2nd
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Notification Dates

1st	2nd
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Licensee

FRN	0001786607	Type	Limited Liability Company
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Licensee

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

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

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

Alien Ownership

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

Basic Qualifications

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

Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

Demographics

Race

Ethnicity

Gender

EXHIBIT II: LIST OF PROPERTY OWNERS:

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

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

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

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

LIST OF PROPERTY OWNERS

ACIN, LLC
ATTN: Terry Irons
5260 Irwin Road
Huntington, WV 25705-3217

Leslie J. and Glenna F. Young
P.O. Box 878
Lynch, KY 40855

Herbert and Wilma Denney
1153 Knob Hill Dr.
Jacksonville, FL 32221-6173

Gwen Bullock
1317 Fairchild St.
Cumberland, KY 40823

Buffy Henry
604 John Sutherland Dr.
Nicholasville, KY 40356

David and Mary C. Boggs
P.O. Box 172
Lynch, KY 40855

Alfred Marsili Lee
P.O. Box 34
Lynch KY 40855

Barbara Faye Tiabion
P.O. Box 145
Lynch, KY 40855

Warren F. and Margaret M. Gray
P.O. Box 92
Lynch, KY 40855

Freedom Center Ministries, Inc.
P.O. Box 794
Lynch, KY 40855

Randy Joe and Janel Adams
P.O. Box 243
Lynch, KY 40855

Harlan Cumberland Manor Assoc.
C/O Hartland Bank
14125 Clayton Rd
Chesterfield, MO 63017

Quata Belton
Jeff Belton
Cris Crosby
6758 Carribean Ln #8
Louisville, KY 40219

Frank & Delores King
P.O. Box 325
Lynch, KY 40855

Kyle & Donna Thompson
P.O. Box 382
Lynch, KY 40855

Kyle and Dona Hue Thompson, ETAL
P.O. Box 382
Lynch, KY 40855

Richard J Chapman & Dor Taylor
P. O. Box 382
Lynch, KY 40855

Lynch Methodist Church
P.O. Box 816
Lynch, KY 40855

Jimmy Frank Holland
P.O. Box 725
Lynch, KY 40855

David and Judy Henry
P.O. Box 438
Lynch, KY 40855

Betty C. Hudack
P.O. Box 328
Lynch,, KY 40855

City of Lynch
E. Main Street
Lynch, KY 40855

Hal Thomas, Jr. and Tammy
Box 942
Lynch, KY 40855

Valerie Katie Gilliam
260 West Green Dale
Corbin Street
Corbin, KY 40701

Donald and Elizabeth Allen
P.O. Box 338
Lynch, KY 40855

Emery and Betty L. Torbett
Box 314
Lynch, KY 40855

Jerry & Bonnie Odell
C/o Fidelity National Tax Service
468 N Rosemead Blvd.
Pasadena, CA 91107

Matildan Cox
Box 911
Lynch, KY 40855

Larry Darnelle
Larry Chapman
P.O. Box 413
Lynch, KY 40855

Donaly Ray and Jackie Dawn Jones
1620 Hwy 806
Eolia, KY 40826

Thomas Jr. and Tammy Denise Woods
P.O. Box 942
Lynch, KY 40855

Johnny G. Deal
P.O. Box 51
Benham, KY 40807

Mia Jo Marsili
P.O. Box 35
Lynch, KY 40855

Clude H., Sr. & Anna S. Johnson
P.O. Box 264
Lynch, KY 40855

Walter B. and Betty L. Mays
P.O. Box 345
Lynch, KY 40855

Danny R. and Marsha Cuzzart
P.O. Box 65
Lynch, KY 40855

Helen Halcomb
12007 Hwy 522
Totz, KY 40870

Helen Halcomb
12007 Hwy 522
Cumberland, KY 40823

Earlene Mackey
P.O. Box 853
Lynch, KY 40855

Norman Thompson
P.O. Box 401
Lynch, KY 40855

Anna Stewart
P.O. Box 916
Lynch, KY 40855

Linda Stewart Cook
P.O. Box 16
Lynch, KY 40855

Josephine Williams
P.O. Box 291
Lynch, KY 40855

Kyle Thompson
P.O. Box 382
Lynch, KY 40855

Robert Hamilton, Jr.
P.O. Box 414
Lynch, KY 40855

Goode Temple A M E Zion Church
P.O. Box 295
Lynch, KY 40855

Charles Harvey and Marie Sweatt
P.O. Box 127
Lynch, KY 40855

Eric and Donna Gilliam
P.O. Box 698
Lynch, KY 40855

Bits and Pieces
209 Beal Street
Cumberland, KY 40823

Johnnie and Mazie Lee Jones
C/O Juanita Daniels
1593 Opal Drive
Perris, CA92571

Charlei Jr. and Lorene Clark
P.O. Box 366
Lynch, KY 40855

Willie and Corean Owens
C/O Katherine Owens McCrewell
P.O. Box 50714
East Palo Alto, CA 94303

Charles and Viola Turnboe
2048 New Orleans Drive
Lexington, KY 40505-2526

Lena Margaret Crosby Jones
5116 Rosette Blvd.
Louisville, KY 40218

Melvin Jr. And Deborah Hardy
P.O. Box 833
Lynch, KY 40855

Jimmy Henry
P.O. Box 412
Lynch, KY 40855

Scott and Tracy Bailey
P.O. Box 415
Lynch, KY 40855

Ray P. and Lily Jenkins
206 Blevins St.
Cumberland, KY 40823

Nolan and Katrina Hal Henson
C/O Mary Whitt
1565 Boardwalk Circle
Morristown, TN 37814-6490

James M. and Beverly Webb
C/O Tony Messico
P.O. Box 400
Harrogate, TN 37752

Freddie A. and Louise E. Terry
P.O. Box 307
Cumberland, KY 40823

Helen Halcomb
C/O Bank of Harlan
P.O. Box 919
Harlan, KY 40831

Sandra North Hansel
P.O. Box 307
Cumberland, KY 40823

Wilma Thomas
P.O. Box 1
Lynch, KY 40855

Virgie Jackson
P.O. Box 195
Lynch, KY 40855

Hosea and Ruth Dunson
P.O. Box 435
Lynch, KY 40855

Alexander Mary Dunson, Est.
C/O Alexander Dunson, Jr.
3390 Quaker Rd.
Columbus, OH 43207

Mary Bell and Virgil Prindleton
P.O. Box 9
Lynch, KY 40855

Arder and Mary B. Prindleton
P.O. Box 9
Lynch, KY 40855



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

ACIN, LLC
Attn: Terry Irons
5260 Irwin Road
Huntington, WV 25705-3217

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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. 2015-00421 in your correspondence.

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

Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Leslie J. and Glenna F. Young
P.O. Box 878
Lynch, KY 40855

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If you have any questions for East Kentucky Network, LLC, please direct them to my attention at the following address: East Kentucky Network, LLC, 101 Technology Trail, I-75, KY 41642 or call me at 606-477-2355, Ext. 1007.

Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Herbert and Wilma Denney
1153 Knob Hill Dr.
Jacksonville, FL 32221-6173

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Gwen Bullock
1317 Fairchild St.
Cumberland, KY 40823

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



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PUBLIC NOTICE

January 27, 2016

Buffy Henry
604 John Sutherland Dr.
Nicholasville, KY 40356

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

David and Mary C. Boggs
P.O. Box 172
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Alfred Marsili Lee
P.O. Box 34
Lynch KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Barbara Faye Tiabion
P.O. Box 145
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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

Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney". The signature is fluid and cursive, with the first name "Lynn" and last name "Haney" clearly legible.

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Warren F. and Margaret M. Gray
P.O. Box 92
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



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PUBLIC NOTICE

January 27, 2016

Freedom Center Ministries, Inc.
P.O. Box 794
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Harlan Cumberland Manor Assoc.
C/O Hartland Bank
14125 Clayton Rd
Chesterfield, MO 63017

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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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. 2015-00421 in your correspondence.

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

Sincerely,

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

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Quata Belton
Jeff Belton
Cris Crosby
6758 Carribean Ln #8
Louisville, KY 40219

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

A handwritten signature in blue ink that reads "Lynn Haney". The signature is fluid and cursive.

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Frank & Delores King
P.O. Box 325
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Kyle and Dona Hue Thompson, ETAL
P.O. Box 382
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Richard J Chapman & Dor Taylor
P. O. Box 382
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Lynch Methodist Church
P.O. Box 816
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Jimmy Frank Holland
P.O. Box 725
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

David and Judy Henry
P.O. Box 438
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Betty C. Hudack
P.O. Box 328
Lynch,, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

City of Lynch
E. Main Street
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Hal Thomas, Jr. and Tammy
Box 942
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Valerie Katie Gilliam
260 West Green Dale
Corbin Street
Corbin, KY 40701

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Donald and Elizabeth Allen
P.O. Box 338
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Emery and Betty L. Torbett
Box 314
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Jerry & Bonnie Odell
C/o Fidelity National Tax Service
468 N Rosemead Blvd.
Pasadena, CA 91107

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Matildan Cox
Box 911
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Larry Darnelle
Larry Chapman
P.O. Box 413
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Donaly Ray and Jackie Dawn Jones
1620 Hwy 806
Eolia, KY 40826

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Thomas Jr. and Tammy Denise Woods
P.O. Box 942
Lynch, KY 40855

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Johnny G. Deal
P.O. Box 51
Benham, KY 40807

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Mia Jo Marsili
P.O. Box 35
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
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VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Claude H., Sr. & Anna S. Johnson
P.O. Box 264
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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. 2015-00421 in your correspondence.

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

Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Walter B. and Betty L. Mays
P.O. Box 345
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Danny R. and Marsha Cuzzart
P.O. Box 65
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Helen Halcomb
12007 Hwy 522
Totz, KY 40870

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Sincerely,

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Helen Halcomb
12007 Hwy 522
Cumberland, KY 40823

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Earlene Mackey
P.O. Box 853
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Norman Thompson
P.O. Box 401
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Anna Stewart
P.O. Box 916
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Linda Stewart Cook
P.O. Box 16
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Josephine Williams
P.O. Box 291
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Kyle Thompson
P.O. Box 382
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Robert Hamilton, Jr.
P.O. Box 414
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Goode Temple A M E Zion Church
P.O. Box 295
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Charles Harvey and Marie Sweatt
P.O. Box 127
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Eric and Donna Gilliam
P.O. Box 698
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Johnnie and Mazie Lee Jones
C/O Juanita Daniels
1593 Opal Drive
Perris, CA92571

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Charlei Jr. and Lorene Clark
P.O. Box 366
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Willie and Corean Owens
C/O Katherine Owens McCrewell
P.O. Box 50714
East Palo Alto, CA 94303

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Charles and Viola Turnboe
2048 New Orleans Drive
Lexington, KY 40505-2526

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Lena Margaret Crosby Jones
5116 Rosette Blvd.
Louisville, KY 40218

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Melvin Jr. And Deborah Hardy
P.O. Box 833
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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

Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Jimmy Henry
P.O. Box 412
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Scott and Tracy Bailey
P.O. Box 415
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Ray P. and Lily Jenkins
206 Blevins St.
Cumberland, KY 40823

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Nolan and Katrina Hal Henson
C/O Mary Whitt
1565 Boardwalk Circle
Morristown, TN 37814-6490

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you may own property within a 500' radius of the proposed tower.

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Sincerely,

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

James M. and Beverly Webb
C/O Tony Messico
P.O. Box 400
Harrogate, TN 37752

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Freddie A. and Louise E. Terry
P.O. Box 307
Cumberland, KY 40823

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Helen Halcomb
C/O Bank of Harlan
P.O. Box 919
Harlan, KY 40831

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Sandra North Hansel
P.O. Box 307
Cumberland, KY 40823

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Wilma Thomas
P.O. Box 1
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Virgie Jackson
P.O. Box 195
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Alexander Mary Dunson, Est.
C/O Alexander Dunson, Jr.
3390 Quaker Rd.
Columbus, OH 43207

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Mary Bell and Virgil Prindleton
P.O. Box 9
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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Sincerely,

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Lynn Haney
Regulatory Compliance Director
Enclosure 1



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

January 27, 2016

Arder and Mary B. Prindleton
P.O. Box 9
Lynch, KY 40855

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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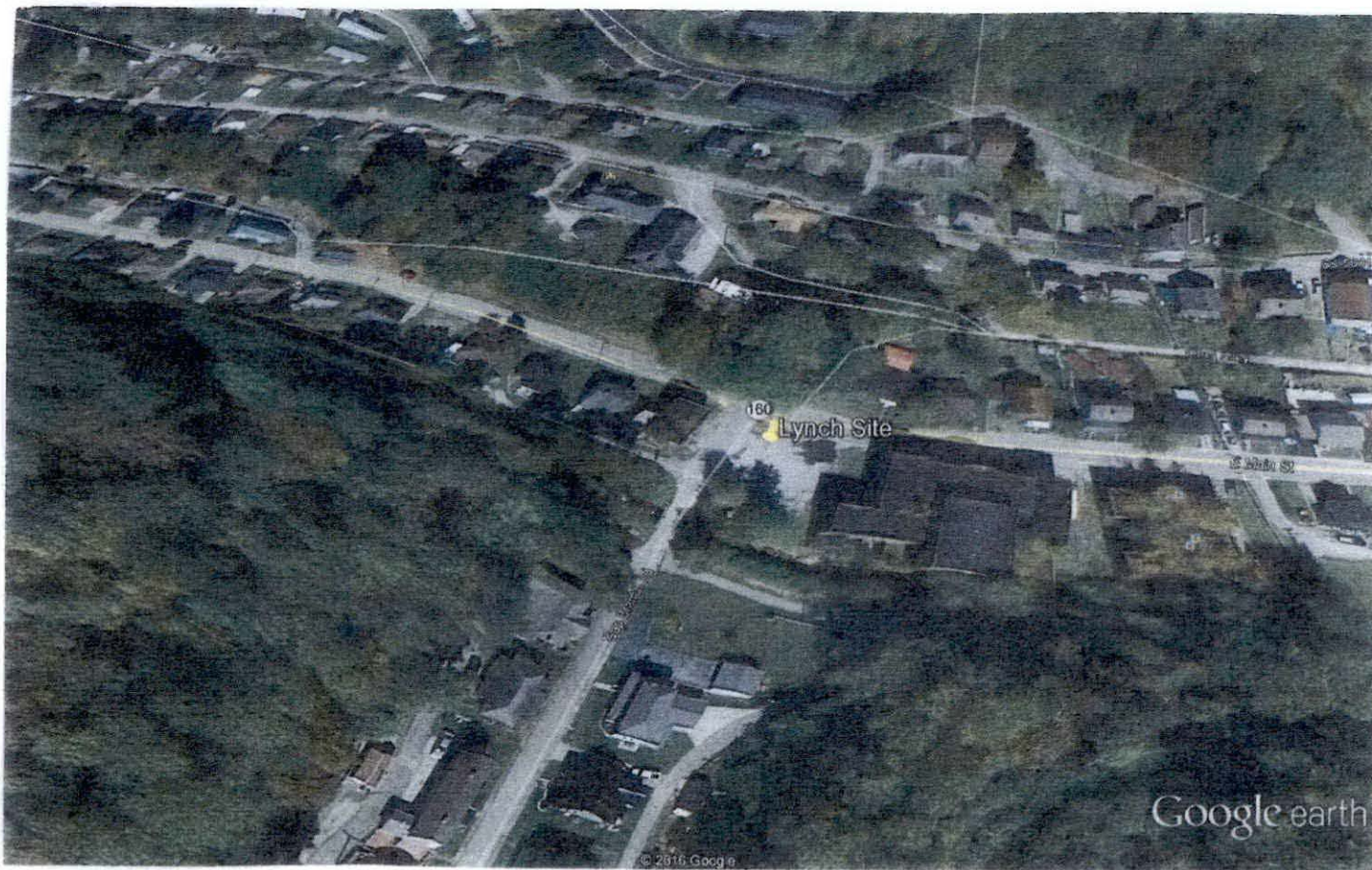
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Lynn Haney
Regulatory Compliance Director
Enclosure 1

Appalachian Wireless Location Map



Site Name

Lynch Site

Location

JCT. of HWY 160 & Gap Br. Lynch, KY

GPS Location

N 36 57 47.31

W 82 54 27.08

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

EAST KENTUCKY
NETWORK



To: The Harlan Daily Enterprise
Attn: Classifieds

From: Raina Helton
Regulatory Compliance Assistant

Email: ebell@civitasmedia.com

Date: January 27, 2016

Re: PUBLIC NOTICE ADVERTISEMENT

Pages: 1

Please place the following Public Notice Advertisement in The Harlan Daily Enterprise to be ran on February 3, 2016.

PUBLIC NOTICE:

RE: Public Service Commission of Kentucky (CASE NO. 2015-00421)

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 the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. The proposed tower will be a 180 foot self-supporting tower with attached antennas. If you would like to respond to this notice, please contact the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2015-00421.

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

Thank you,

Raina Helton
Regulatory Compliance Assistant

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



VIA: U.S. CERTIFIED MAIL

January 27, 2016

Dan Mosley, Judge Executive
P.O. Box 956
Harlan, KY 40831

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2015-00421)

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 Harlan County. The facility will include a 180-foot self-supporting tower with attached antennas extending upwards, and an equipment shelter located on a tract of land at the junction of Highway 160 and Gap Branch, Lynch, Harlan County, Kentucky. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you are the County Judge Executive of Harlan County.

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,

Lynn Haney
Regulatory Compliance Director
Enclosure

Appalachian Wireless Location Map



Site Name

Lynch Site

Location

JCT. of HWY 160 & Gap Br. Lynch, KY

GPS Location

N 36 57 47.31

W 82 54 27.08

APPALACHIAN WIRELESS
Geotechnical Investigation on the
Lynch site
Located at Gap Branch Rd,
Lynch, Kentucky 40855
ERMC2 Project No. 165-000-0017

PREPARED FOR:

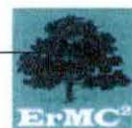
Appalachian Wireless.
101 Technology Trail
Ivel, Kentucky 41642

PREPARED BY:

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



, 20215, December 3rd, 2015



EXECUTIVE SUMMARY

- 1.0 INTRODUCTION**
- 2.0 PROJECT DESCRIPTION**
- 3.0 SITE DESCRIPTION**
- 4.0 FIELD EXPLORATION**
 - 4.1 SITE INFORMATION
 - 4.2 BRING DATA
 - 4.3 GROUNDWATER
 - 4.4 SEISMIC SITE CLASSIFICATION
- 5.0 DISCUSSION AND RECOMMENDATIONS**
 - 5.1 GENERAL
 - 5.2 FOUNDATIONS
 - 5.3 SHALLOW FOUNDATIONS
 - 5.4 DEEP FOUNDATIONS
 - 5.5 BURIED UTILITIES
- 6.0 DISCUSSION AND RECOMMENDATIONS**
 - 6.1 SUSURFACE INVESTIGATION
 - 6.2 LABATORY AND FIELD TESTING
 - 6.3 ANALYSIS AND RECOMMENDATIONS
 - 6.4 CONSTRUCTION MONITORING
 - 6.5 GENERAL

SPECIFICATIONS

- I - GENERAL**
- II – DRILLED PEIR INSTALATIONS**
- III – ENGINEERED FILL BENEATH STRUCTURES**
- IV – GUIDELINES FOR EXCAVATIONS AND TRENCHING**
- V – GENERAL CONCRETE SPECIFICATIONS**

APPENDIX A – BORING DATA AND TESTING

APPENDIX B – SITE MAPS BOUNDARY MAPS & EARTHWORK



EXECUTIVE SUMMARY

A geotechnical investigation has been performed on the Lynch Property. Located on Gap Branch Rd. Lynch, Kentucky 40855. This site is located on an old parking lot immediately west of the old Lynch high school building, and is readily accessible. A location map is shown in Figure 1 of this report. Four (4) borings were advanced to depths ranging from 11.3 ft. to 20.3 ft. The following geotechnical considerations were identified:

- Borings utilized for this study encountered fill material to a depth of 11.1 ft. at which point auger refusal was met.
- This area is an abandoned parking area. This area is located near the intersection of Main Street and Gap Branch Road. The site is immediately west of the abandoned Lynch high school building.
- Mapping of existing waterline structures differs from interviews with city officials. Mapping indicates that an eight (8) inch waterline was installed parallel to Gap Branch Road turning east along Main Street, thus avoiding the tower location. However, city officials indicate that the eight (8) inch waterline was actually installed diagonal across the abandoned lot from Gap Branch Road to Main Street, potentially placing the waterline beneath the tower pad. Per city officials, the waterline was installed at a depth of three (3) feet.
- The bearing capacities of the fill material is estimated at 800 psf. and the underlying rock is 6 tsf.
- The 2009 International Building Code seismic site classification for this site is "D".
- Due to the location of competent rock 11 ft. below the surface we recommend excavating the site to rock and backfilling with engineered fill. This would increase the bearing capacity to 2500 psf.
- Close monitoring of the construction operations discussed herein will be critical in achieving the design subgrade support. We therefore recommend that ErMC² be retained to monitor this portion of the work.

This executive summary is included to provide a general overview of the project and should not be relied upon except for the purpose it was prepared. Please rely



on the complete report for the information on the findings, recommendation and all other concerns.

1. INTRODUCTION

Environmental Resources Management Consultant Company (ErMC²) was retained by Mr. Marty Thacker of Appalachian Wireless to prepare a geotechnical engineering report for the proposed tower site located on the Lynch Property, on Gap Branch Road. A site location map is shown in Figure No. 1.

Four (4) borings were advanced to depths ranging from 11.3 ft. to 20.3 ft. Logs of the borings along with a boring location plan are included in Appendix A & B. The purpose of these services is to provide information and geotechnical engineering recommendations relative to subsurface conditions, earthwork, seismic considerations, groundwater conditions and foundation design.

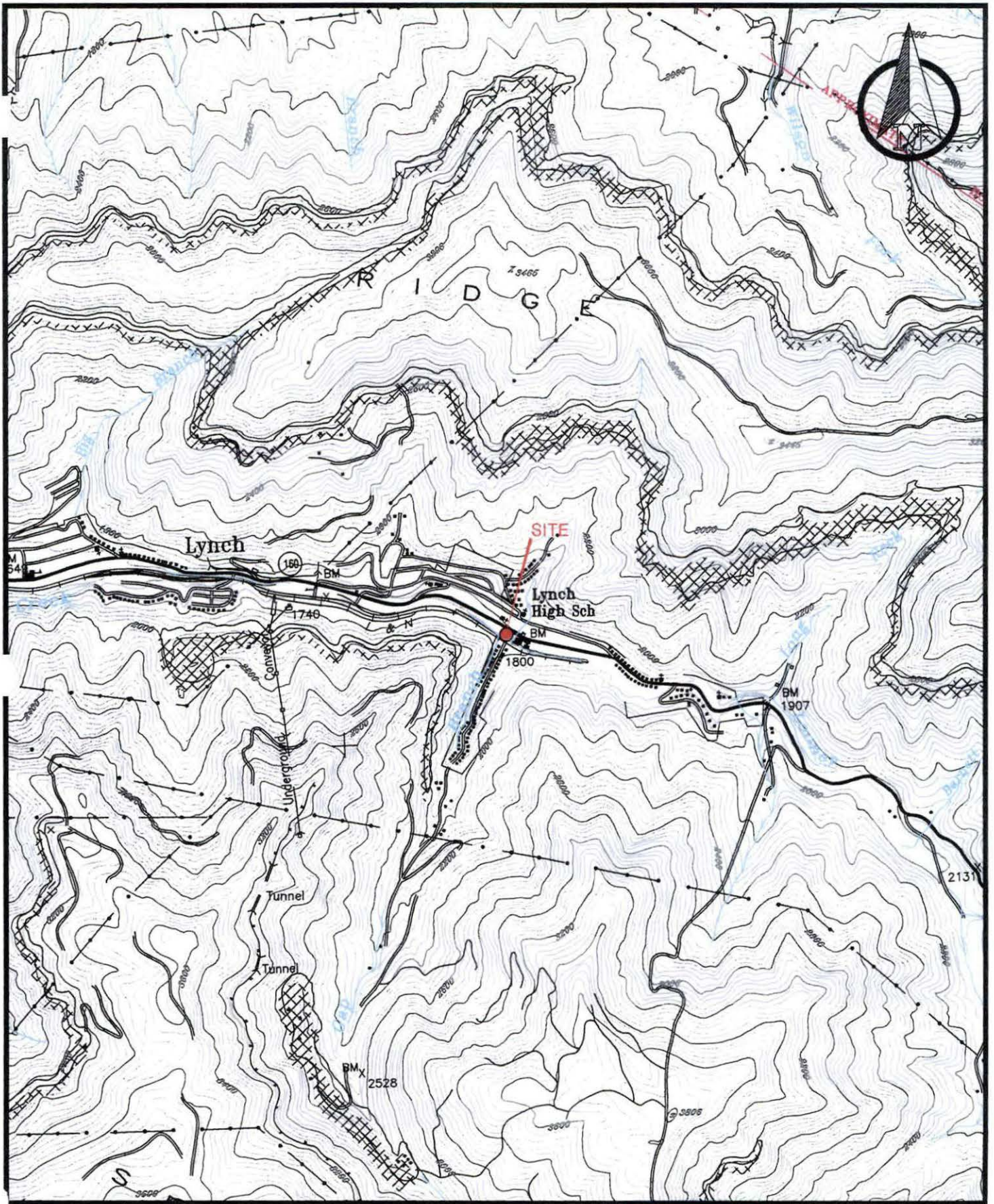
2.0 PROJECT DESCRIPTION

The proposed communication facility will consist of a self-supporting tower of undetermined height and ancillary support areas. The construction area will be approximately 24 ft. x 24 ft. Based upon information provided, we estimate the structural loads will be similar to 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 are significantly different than these expected values, ErMC² should be notified to reevaluate the recommendations provided in this report.





wn:	Date: 12/2/15
Job:	Scale: 1"=2000'
Drawing: USGS SITE MAP	

APPALACHIAN WIRELESS
LYNCH SITE
FIGURE 1



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

3.0 SITE DESCRIPTION & HISTORICAL MINING

The site location is in relative flat existing fill area adjacent to the existing abandoned Lynch high school building. The fill is approximately 11 ft. deep. According to city officials, the site was filled as a result of the relocation of Looney Creek.

ErMC² reviewed available historical mine maps from the Kentucky Division of Mine Safety, Kentucky Mine Mapping Information System ("KMMIS"). Based on available data, no historical surface mining has occurred.

Previous underground mining has been conducted in area(s) near the proposed tower site, however the site has not been undermined. Previous mining was conducted from the late 1930's through the late 1950's. According to KMMIS data (SFN 00540-X), the mining was conducted by United States Steel Corp., in an unnamed seam. Mine mapping indicates that the mine elevation near the proposed site is approximately 1740 ft. Based on review of the Benham geologic quadrangle, this is most likely the Harlan coal zone.

4.0 FIELD EXPLORATION

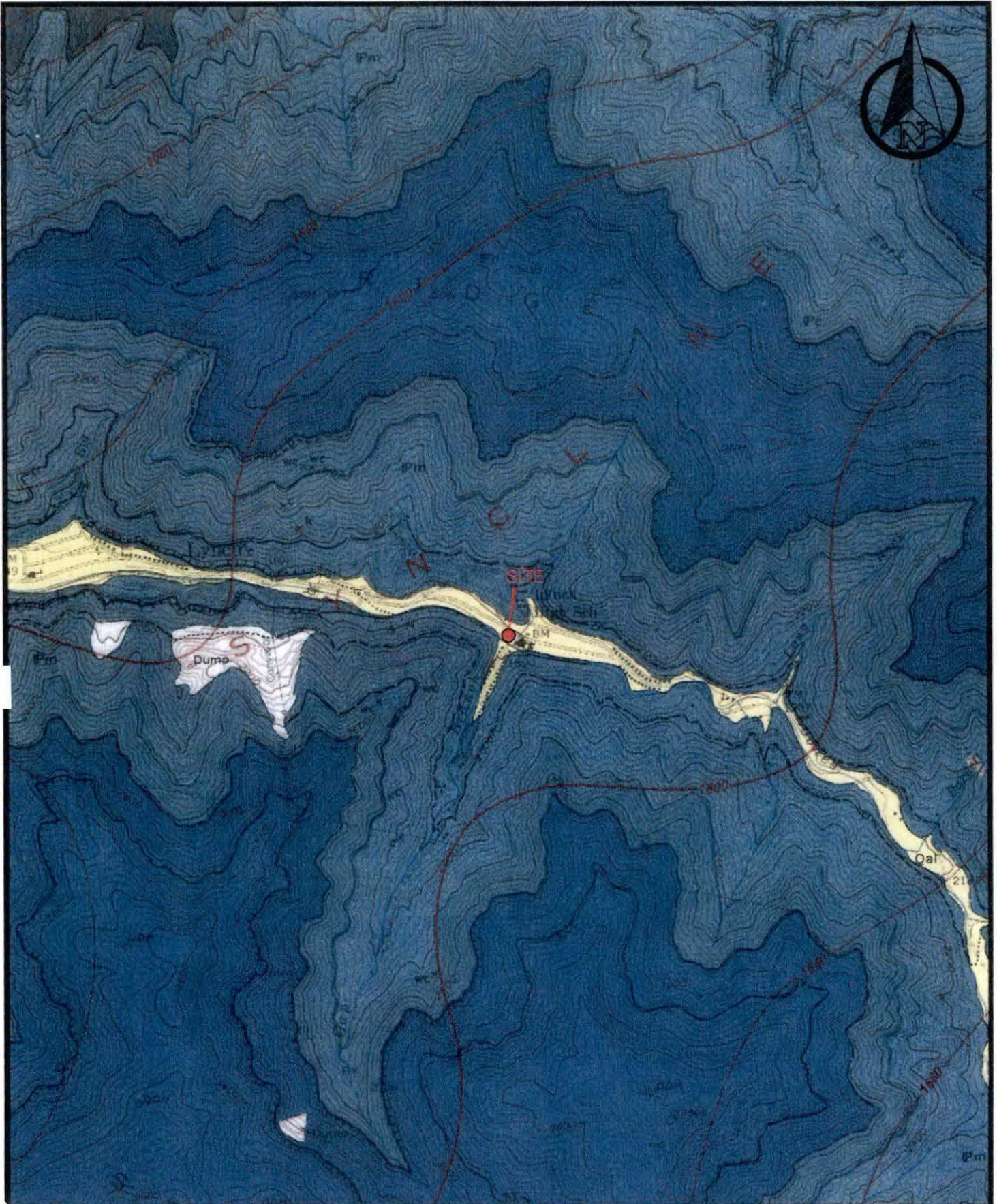
4.1 SITE INFORMATION

This site is located on an old parking lot immediately west of the old Lynch high school building. A boundary retracement survey was conducted on the Lynch Property and provided to ErMC². A proposed lot description and easement for access drawing is included in Appendix B of this report. The proposed tower lot was established and tied to the existing boundary. An estimated pad location was determined and boring locations were placed at the corners of proposed concrete pad for the towers support.

4.2 BORING DATA

Four (4) borings were made in the relative positions shown on the Boring Location Map in Appendix A. The boring logs and resulting data are also included in Appendix A. The 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





Drawn:	Date: 12/2/15
Job:	Scale: 1"=2000'
Drawing: GQ SITE MAP	

APPALACHIAN WIRELESS
LYNCH SITE
FIGURE 2



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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 ErMC² 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 1.

TABLE 1

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

BORING NO.	DEPTH INCREMENT, (FT.)	NATURAL MOISTURE CONTENT, %
B1	4.0-5.5	12.7%
B1	9.0-10.5	21.5%
B2	4.0-5.5	6.1%
B2	9.0-10.5	7.2%
B3	4.0-5.5	5.6%
B3	9.0-10.5	9.1%
B4	4.0-5.5	11.3%
B4	9.0-10.5	18.5%

In order to determine the depth of the existing fill, boring B-2 was extended to auger refusal to a depth of 10.3 ft. at which point a ten foot NX core was taken of the rock.

4.3 GROUNDWATER

Groundwater observations were made during the drilling operations (by noting the depth to water on the drilling tools) and in the open boreholes following withdrawal of the drilling augers. No groundwater levels were noted during drilling activities.

4.4 SEISMIC SITE CLASSIFICATION

Based on the encountered soil conditions at the project site, the site classification was determined to be "Site Class D" per the Kentucky Building Code. In addition, a S_{DS} coefficient of 0.333g was calculated, and a S_{D1} coefficient of 0.1.50g was also calculated for design based on the aforementioned building code.



5.0 DISCUSSION AND RECOMMENDATIONS

5.1 GENERAL

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

5.2 FOUNDATIONS

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

Approximately 11 feet of fill is present at this proposed location. It consists of mixture of shale, sandstones and clay material. Standard penetrations test were conducted on five foot intervals in this material. If shallow footings are used the expected depth of excavations will not exceed 11 ft. in depth.

The approximate elevation of the surface of the site is 1792 ft. The standard penetration tests were conducted on five foot intervals within the fill material. The blow counts (N) ranged from 5 to 22 to the depth of 11.8 feet.

5.3 SHALLOW FOUNDATIONS

Typically we do not recommend shallow foundations on sites consisting of fill material. Settlement can and is likely to occur once the final structure's loading is in place. No settlement calculations have been evaluated for this report. If shallow foundations are used it should be noted that the material type and bearing capacity can vary significantly due to the inconsistency of the underlying material. Based upon the laboratory and field testing, visual inspection of the materials and practical experience we have estimated that the bearing capacity of the soils to be at 800 psf.

If shallow foundations are used we recommend that site be over excavated to rock a below the footing subgrade and ten ft. outside the footing area. Any large rock and unsuitable material be removed and backfilled with a select backfill or dense grade aggregate. The material is to be placed in 8 inch horizontal lifts, compacted to not less



than 95% of the maximum density as determined in accordance with the standard Proctor dry unit weight (ASTM D-968) and within +2% and -2% of the optimum moisture content. This would remediate the site with engineered fill and provide a bearing capacity of 2500 psf.

5.4 DEEP FOUNDATIONS

Auger refusal was encountered at approximately 11 feet below the surface. A rock core was taken of grey sandstone w/ shale streaks with a RQD value of 53. The bearing capacity for this is 6 tsf. Deep foundations will not be needed if the site is excavated to rock and backfilled with engineered fill. If deep foundation are used they should be constructed with 4000 psi reinforced concrete with a minimum of 24 in. diameter piers socketed into competent rock a of 18 in. deep.

5.6 BURIED UTILITES

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 foot 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 have a tendency to pond water within their interstices.

Interviews with city officials indicates an existing eight (8) inch waterline located within the proposed construction area. This waterline is buried at a depth of three (3) feet. The construction procedures and materials are not known.

6.0 WARRANTY

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



While the services of ErMC² are a valuable and integral part of the design and construction teams, we do not warrant, guarantee, or insure the quality or completeness of services provided by other members of those teams, the quality, completeness, or satisfactory performance of construction plans and specifications which we have not prepared, nor the ultimate performance of building site materials.

6.1 SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings, although test pits are sometimes employed. The method of determining the boring location and the surface elevation at the boring is noted in the report, and is presented on the Boring Location Plan or on the boring log. The location and elevation of the boring should be considered accurate only to the degree inherent with the method used.

The boring log includes sampling information, description of the materials recovered, approximate depth of boundaries between soil and rock strata and groundwater data. The boring log represents conditions specifically at the location and time the boring was made. The boundaries between different soil strata are indicated at specific depths; however, these depths are in fact approximate and are somewhat dependent upon the frequency of sampling (The transition between soil strata is often gradual). Free groundwater level readings are made at the times and under conditions stated on the boring logs (Groundwater levels change with time and season). The borehole does not always remain open sufficiently long for the measured water level to coincide with the groundwater table.

6.2 LABORATORY AND FIELD TESTS

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

6.3 ANALYSIS AND RECOMMENDATIONS

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



Our engineering report recommendations are based primarily on data from test borings made at the locations shown on 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 Lynch Property located in Harlan County, Kentucky. Specific design and construction recommendations have been provided in the various sections of the report. The report shall, therefore, be used in its entirety. This report is not a bidding document and shall not be used for that purpose. Anyone reviewing this report must interpret and draw their own conclusions regarding specific construction techniques and methods chosen. ErMC² is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploratory and laboratory test data presented in this report.



SPECIFICATIONS

I – GENERAL

1.0 STANDARDS AND DEFINITIONS

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

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

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

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

1.2 DEFINITIONS

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

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

1.2.3 Design Engineer - In these specifications the words "Design Engineer" shall mean 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 - DRILLED PIER INSTALLATION

1.0 DRILLING PROCEDURE

- 1.1 Drilled piers will be installed with large caisson drill rigs capable of torque and crowd forces sufficient to install drilled piers at the project site given the in-situ soil conditions.
- 1.2 The drill rig kelly bar and auger will be carefully and accurately placed over the centerline of the drilled pier. The Contractor is responsible for providing necessary surveying to verify drilled pier location before, during, and after the drilled pier installation.
- 1.3 The augers are advanced downwards as they are rotated such that drilling of the soil mass is efficiently accomplished. Depending on the subsurface conditions, and the requirements for the given project, a temporary steel casing should be installed at this time to preclude caving of the soil and/or broken rock mass being penetrated.

2.0 CASING INSTALLATION

- 2.1 The casing will be checked for centerline accuracy and plumbness by the Contractor's survey crew. During casing installation, the Contractor's survey crew will verify alignment with instruments. If plumbness and alignment are not within tolerance as determined by the Contractor's survey crew, the casing will be extracted and re-aligned as necessary.
- 2.2 The drill rig will remove soil and bedrock material from within the casing to the drilled pier design tip elevation. A steel casing, or "Sonotube" shall be inserted into the borehole to preclude cave-ins and/or instability in the borehole.



- 2.3 The bearing surface within the drilled pier will be inspected by a registered Professional Engineer prior to being approved for structural concreting.

3.0 INSTALLATION OF THE REBAR CAGE

- 3.1 An epoxy coated spiral reinforcing steel cage will be installed while in the drilled pier borehole.
- 3.2 To assist in assuring that the reinforcing steel cage does not settle during concrete pumping, a mat of reinforcing steel bars will be installed across the bottom of the reinforcing steel cage perpendicular to the vertical axis of the cage. The exact number of bars will be determined and installed by the Structural Engineer. The number of rebar boots used on the bottom of the cage will also be determined by the Structural Engineer.
- 3.3 The reinforcing steel cage will be lowered into the drilled pier borehole, while drilled pier spacers are placed at intervals as required by the Structural Engineer. The reinforcing steel cage will be checked for alignment by the Contractors survey crew.
- 3.4 The crane will remain attached to the reinforcing steel cage while the concrete pump outlet pipe is lowered to just above the bottom of the drilled pier. The concrete pump pipe sections will be welded together to assure that do not separate during pumping.

4.0 CONCRETING OF THE DRILLED PIER

- 4.1 Concrete pumping may commence once the bearing surface has been approved in accordance with Clause 2.3
- 4.2 A three inch trash pump will be used to pump slurry and/or water from within the casing and from above the newly pumped concrete.



- 4.3 The concrete pump outlet pipe will maintain at least ten (10) feet of embedment into the fresh concrete. The concrete level in the casing will be monitored.
- 4.4 The casing will be completely extracted with the crane and/or vibratory hammer. Caisson clamps on the vibratory hammer (if applicable) will be adjusted to the proper dimension to withdrawal the casing.
- 4.5 The concrete will be terminated at the top of drilled pier elevation and screeded flat.
- 4.6 The upper reinforcing steel dowel cage will be lowered into the concrete to the embedment elevation. If necessary, the concrete will be vibrated to assist in placement. Alignment will be verified by the Contractors survey crew and the cage will be sufficiently braced.



III - ENGINEERED FILL BENEATH STRUCTURES CLEARING AND GRADING SPECIFICATIONS

1.0 GENERAL CONDITIONS

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

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

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

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

2.0 SUBSURFACE CONDITIONS

Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site; and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work. Borings and/or soil investigations shall have been made. Results of these borings and studies will be made available by the Owner to the Contractor upon his request, but the Owner is not responsible for any interpretations or conclusions with respect thereto made by the Contractor on the basis of such information, and the Owner further has no responsibility for the accuracy of the borings and the soil investigations.

If conditions other than those indicated are discovered by the Contractor, the Owner should be notified immediately. The material which the Contractor believes to be a



changed condition should not be disturbed so that the Owner can investigate the condition.

3.0 SITE PREPARATION

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

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

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

4.0 FORMATION OF FILL AREAS

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

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

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



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

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

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

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



IV GUIDELINES FOR EXCAVATIONS AND TRENCHES

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

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

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

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

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

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

- Ramps must be secured to prevent displacement;
- Ramps used in lieu of steps must have cleats to prevent slipping; and
- Trenching excavations four feet or greater in depth must have a stairway, ladder, ramps or other safe means to egress with lateral travel no more than 25 feet.

3. Workers must be provided with reflector garments, such as warning orange or red vests, when exposed to vehicular traffic.



4. Contractors must not allow workers to work under or near equipment when there is danger of falling debris, spillage or equipment-related injuries.
5. Mobile equipment, operating adjacent to an open excavation or approaching the edge of an excavation, must have one of the following when the operator's view is obstructed:
 - Warning System
 - Mechanical Signals
 - Barricades
 - Stop Logs
 - Hand Signals
6. The contractor must check the atmosphere for hazardous gases and oxygen deficiencies when excavating four feet or greater around landfills, or when hazardous substances are stored nearby, and when the contractor expects there could be any exposure to the workers.
7. When hazardous atmospheric conditions exist, or when conditions could change, the contractor must make emergency rescue equipment readily available including breathing apparatus, safety harnesses with life lines and a basket stretcher.
8. When workers enter bell-bottom pier holes or other deep and confined excavations, the worker must wear (at all times while performing work in the confined space) a separate life line attached to a harness. The line must be attended by someone above while work is being performed. The worker must check for hazardous atmospheric conditions prior to entry.
9. The contractor must ensure that water does not accumulate in open excavations and must inspect the excavation prior to allowing workers to re-enter after heavy rains.
10. Adjacent structures (buildings, walls, etc.) must be supported or secured to prevent worker exposure to unsafe conditions and damage to existing structures.



11. A registered professional engineer must approve operations when a contractor underpins existing structures to ensure worker safety and prevent damage to existing structures.
12. Workers must not be exposed to loose soil and rock or materials in and around excavations. Materials, such as removed soil and rock, must not be stored closer than two feet from the edge of the excavation.
13. Daily inspections of the excavation, the adjacent areas and protective systems must be made by a "competent person" for evidence of possible cave-ins, indications of failure of protective systems, hazardous atmospheres or other hazardous conditions. The "competent person" must stop work immediately and remove workers from the excavation when conditions change and pose a threat to their safety.
14. Workers must not be exposed to fall hazards associated with excavations. Protective walkways or bridges with standard guard rails must be provided.
15. All wells, pits, shafts etc. must be barricaded or covered. After completion of work, all wells, pits, shafts etc. must be backfilled.



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.



V - 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 handles as to prevent inclusion of foreign matter and damage by



dampness or breakage. Packaged material shall be stored in original container until ready for use. Materials showing evidence of dampness or other damage may be rejected.

- A. Fine and Coarse Aggregates: Coarse and fine aggregates shall conform to ASTM Specification C33. The maximum size of aggregate shall not be larger than one-fifth (1/5) of the narrowest dimensions between forms, or larger than three fourths (3/4) of the minimum clear spacing between reinforcement.
1. Fine Aggregate: Sand shall be composed essentially of clean, hard, strong, durable grains free of structurally weak grains, organic matter, loam, clay, silt, salt, mica or other fine materials that may effect bonding of the cement paste.
 2. Coarse Aggregate: Cement concrete shall consist of crushed rock or screened gravel and shall be composed essentially of clean, hard, strong and impermeable particles, resistant to wear and frost and free from deleterious amounts of organic matter, loam, clay, salts, mica, and soft, thin, elongated, laminated or disintegrated stone, and shall be inert to water and cement.
- B. Portland Cement: Portland cement shall conform to ASTM Specification C150. Type I or Type II Portland Cement shall be used provided that they are not intermixed during any one batch. Type II Portland Cement shall not be used unless indicated on the plans.
- C. Water: Water for mixing and curing shall be clean, fresh, and free from deleterious materials.
- D. Metal Reinforcement: Rebar shall be Grade 60 and with deformations conforming to ASTH Specification A305. Welded wire mesh shall conform to W4 x W4 size and be of Grade 60 steel.
- E. Admixtures: Except as herein noted, admixtures shall not be used.
1. Under adverse weather conditions only retarding or accelerating agents containing no chloride may be used.
 2. Air-Entraining Agent shall be used for all concrete will give an entrained air range of not less than 4 percent but no greater than 8 percent in the finished product. Under no circumstances shall the air-entraining be interground with cement.
 3. Approval in writing shall be required from Owner prior to the use of any admixture.



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

6.0 REINFORCEMENT

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

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

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

7.0 CONCRETE

Concrete for the various parts of the work shall be of 4000 pounds per square inch compressive strength with a minimum 28-day cure. Contractor is responsible to provide a mix of not less than 6 bags of cement per yard of concrete and not more than 7 gallons of water per bag of cement, producing a minimum slump of 2-1/2 inches and a maximum slump of 4-1/2 inches. Concrete that exceeds the above range of maximum or minimum slump



requirements may be rejected by the Owner. All concrete shall be air-entrained. Contractors are required to furnish the name or names of the company(s) that will be providing the mix. The Owner reserves the right to disapprove any concrete supplier that has been known to supply an undesirable material to the Owner on previous occasions.

8.0 DEPOSITING CONCRETE

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

1. Remove from space to be occupied by concrete all debris, including snow, ice, and water unless otherwise permitted by Owner.
2. Provide diversion, satisfactory to Owner, of any flow of water to an excavation so as to avoid washing the freshly deposited concrete.
3. Coat the forms prior to placing of reinforcing steel as required in form work.
4. Secure firmly in correct position, all reinforcement and other items to be encased and remove therefrom all coating including ice and frost.

B. Transportation of Concrete from Batch Plant: The concrete shall be delivered to the site of the work and discharge shall be completed within 90 minutes after addition of the cement and water to the aggregates. Each batch of concrete delivered at the job site shall be accompanied by a time slip issued at the batching plant, bearing the time of charging of the mixer drum with the cement and aggregates.

C. Transporting of Concrete from Mixer to Place of Final Deposit: Transportation shall be done as rapidly as practical by means which shall prevent the separation or loss of the ingredients. If chutes are used, they shall be at a slope not flatter than one vertical to two horizontal. Buggies or carts shall be equipped with pneumatic rubber tires or surfaces of runways shall be sufficiently smooth or both so as not to cause separation or segregation of concrete ingredients. Concrete shall not be allowed to drop freely more than 4 feet. Where greater drops are



required, canvas "elephant trunks" or galvanized iron chutes equipped with suitable hopper heads shall be employed and a sufficient number placed to insure that the concrete may be effectively compacted into horizontal layers not exceeding 12 inches in thickness with minimum lateral movements.

D. Depositing of Concrete: Depositing of concrete shall:

1. Proceed continuously after once starting until reaching the end of a section of construction joint location shown on the drawings, or as approved by the Owner. The operations shall be conducted so that no concrete is deposited on concrete sufficiently hardened to cause formation of seams, and planes of weakness.
2. Be as near as practical to its final position in the forms.
3. Proceed so as to maintain constantly a top surface which is approximately level.
4. Be placed before initial set has occurred, and in no event after it has contained its water content for more than 90 minutes.
5. Be thoroughly worked and compacted by means of suitable tools to provide impermeability, durability and strength and shall be thoroughly worked around reinforcements and embedded items and into corners of forms and so as to be free from voids, pockets or honeycombing. Particular care shall be taken to provide impermeability.

E. Vibration Equipment: Vibration equipment shall be of the appropriate type and shall, at all times, be adequate in number of units and power of each unit to properly consolidate all concrete.

F. Monolithic Pours: Proper delivery of concrete shall be the Contractor's responsibility in order to make a mono-lithic pour without delays and changes of cold joints.

9.0 CURING

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



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

10.0 CONCRETE FINISHES

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

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

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



APPENDIX A BORING DATA AND SEISMIC INFORMATION



Environmental Resources Management Consulting Company, LLC
 230 Swartz Drive
 Hazard, KY 41701

SCALE, FT	STRATUM DEPTH, FT	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT		BLOWS ON SAMPLER PER SPT (6" INTERVAL) RQD	SPT "n" OR RECOVERY
					FROM	TO		
	0	Gravel		1	4	5.5	2-2-3	9"
	0.4			2	9	10.5	2-1-50/1	10"
	10.1	Spoil/Fill		3	14	15.5		
	10.1	Weathered Rock						
	11.3	AR						
<u>WATER LEVEL OBSERVATIONS</u> Noted on rods: N/A At completion: N/A After ___ hrs ___ ft		<u>BORING METHOD</u> HSA Hollow Stem Auger CFA Continuous Flight Augr DC Driven casing		<u>BORING METHOD</u> MD Mud Drilling RC Rock Coring CA Casing Advancer		<u>TYPE SAMPLE</u> A-Split Spoon B-Rock Core C-Shelby Tube D-Grab Sample		

Environmental Resources Management Consulting Company, LLC
 230 Swartz Drive
 Hazard, KY 41701

CLIENT: Appalachian Wireless		REPORT NO.:		BORING NO: B-3				
PROJECT: Lynch Tower Site		DATE/STD: 11/19/2015		DATE FINISHED: 11/19/2015				
LOCATION: As shown on the Location Map		DRILLERS: N/A		GROUND ELEV: 1792				
METHOD: Boring								
SCALE, FT	STRATUM DEPTH, FT	CLASSIFICATION OF MATERIAL		SAMPLE NUMBER & SAMPLE TYPE	DEPTH OF SAMPLE, FT		BLOWS ON SAMPLER PER SPT (6" INTERAL) RQD	SPT "n" OR RECOVERY
		Major Soil Components	Minor Component Term		FROM	TO		
		Gravel Silt Sand Clay	Trace 1-10% Some 11-35% And 36-50%					
	0	0.3	Gravel	1	4	5.5	50/1	1"
				2	9	10.5	3-3-6	7"
				3	14	15.5		
	0.3	8.7	Spoil/Fill					
	8.7	11.4	Sand & Gravel					
	11.4	12.8	Weathered Rock					
		12.8	AR					
WATER LEVEL OBSERVATIONS		BORING METHOD		TYPE SAMPLE				
Noted on rods: N/A		HSA Hollow Stem Auger		MD Mud Drilling				
At completion: N/A		CFA Continuous Flight Aug		RC Rock Coring				
After ___ hrs ___ ft		DC Driven casing		CA Casing Advancer				
				A-Split Spoon				
				B-Rock Core				
				C-Shelby Tube				
				D-Grab Sample				

USGS Design Maps Summary Report

User-Specified Input

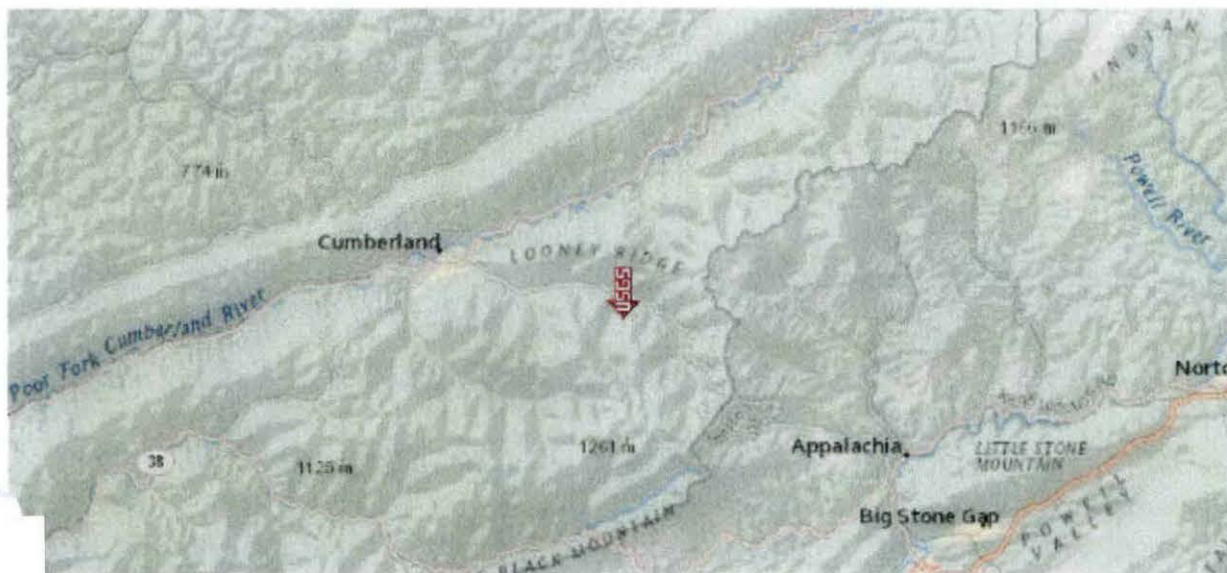
Report Title Lynch Tower
Thu December 3, 2015 20:01:15 UTC

Building Code Reference Document 2006/2009 International Building Code
(which utilizes USGS hazard data available in 2002)

Site Coordinates 36.96308°N, 82.90748°W

Site Soil Classification Site Class D – “Stiff Soil”

Occupancy Category IV

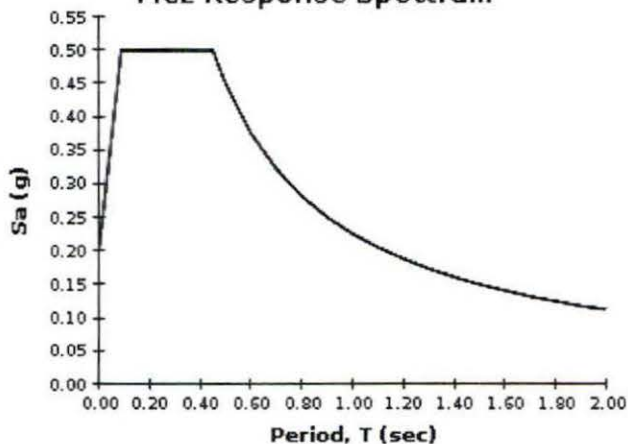


USGS-Provided Output

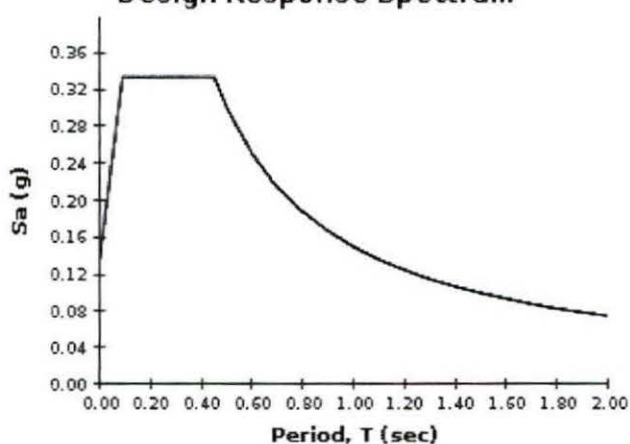
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$S_1 = 0.094 \text{ g}$ $S_{M1} = 0.225 \text{ g}$ $S_{D1} = 0.150 \text{ g}$

MCE Response Spectrum



Design Response Spectrum



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

APPENDIX B MAPS





LAT:36°57'47.3121"
LON:82°54'27.0892"

Drawn:	Date: 12/3/15
Job:	Scale: 1"=400'
Drawing: 2012 AERIAL IMAGE	

APPALACHIAN WIRELESS
2012 AERIAL IMAGE MAP
LYNCH TOWER
FIGURE 3



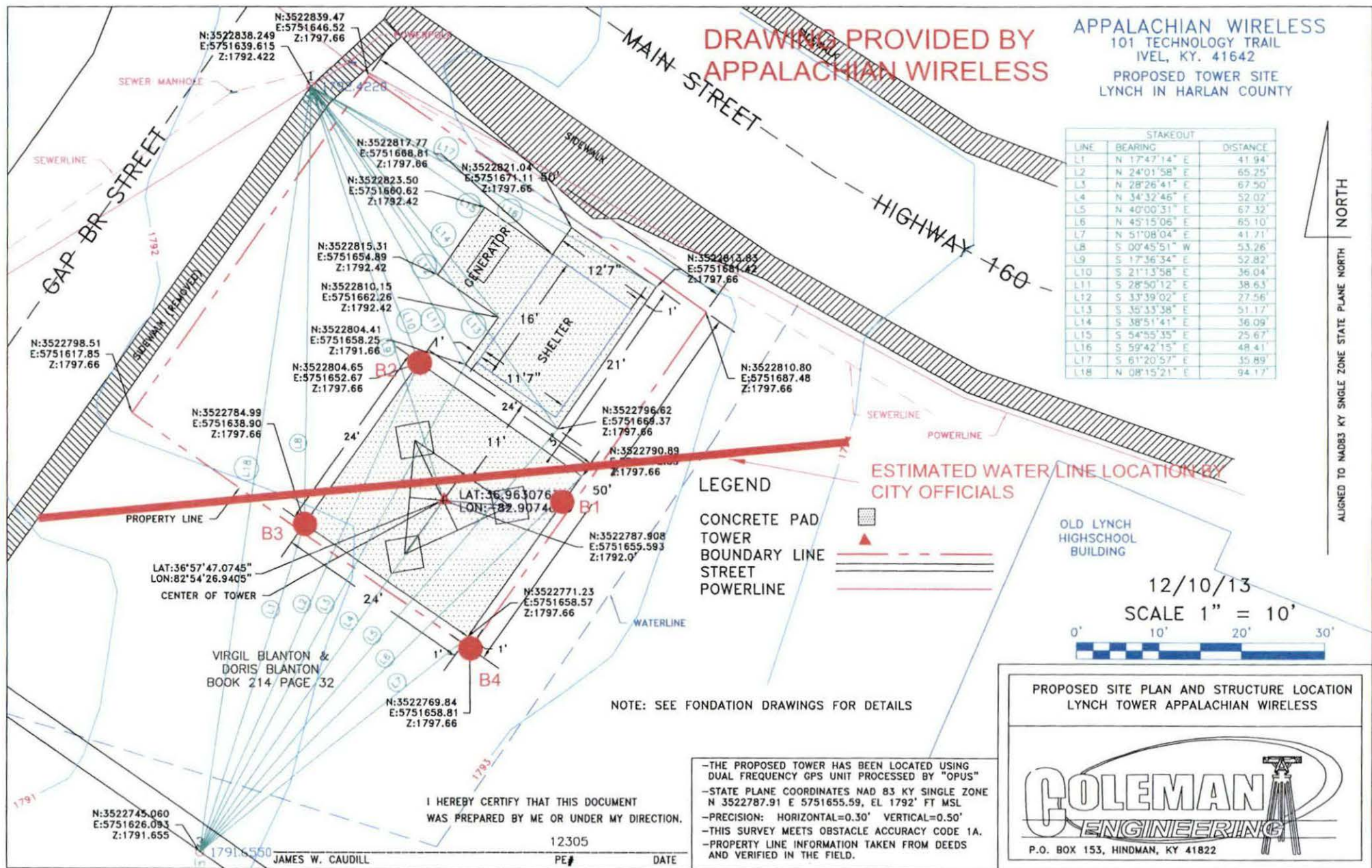
921 Beasley Street, Suite 145
Lexington, KY 40509
(859)381-1000
engineering@ermc2.us

**DRAWING PROVIDED BY
APPALACHIAN WIRELESS**

APPALACHIAN WIRELESS
101 TECHNOLOGY TRAIL
IVEL, KY. 41642
PROPOSED TOWER SITE
LYNCH IN HARLAN COUNTY

STAKEOUT		
LINE	BEARING	DISTANCE
L1	N 17°47'14" E	41.94'
L2	N 24°01'58" E	65.25'
L3	N 28°26'41" E	67.50'
L4	N 34°32'46" E	52.02'
L5	N 40°00'31" E	67.32'
L6	N 45°15'06" E	65.10'
L7	N 51°08'04" E	41.71'
LB	S 00°45'51" W	53.26'
L9	S 17°36'34" E	52.82'
L10	S 21°13'58" E	36.04'
L11	S 28°50'12" E	38.63'
L12	S 33°39'02" E	27.56'
L13	S 35°33'38" E	51.17'
L14	S 38°51'41" E	36.09'
L15	S 54°55'35" E	25.67'
L16	S 59°42'15" E	48.41'
L17	S 61°20'57" E	35.89'
L18	N 08°15'21" E	94.17'

NORTH
ALIGNED TO NAD83 KY SINGLE ZONE STATE PLANE NORTH



LINE	BEARING	DISTANCE
L1	N 17°47'14" E	41.94'
L2	N 24°01'58" E	65.25'
L3	N 28°26'41" E	67.50'
L4	N 34°32'46" E	52.02'
L5	N 40°00'31" E	67.32'
L6	N 45°15'06" E	65.10'
L7	N 51°08'04" E	41.71'
LB	S 00°45'51" W	53.26'
L9	S 17°36'34" E	52.82'
L10	S 21°13'58" E	36.04'
L11	S 28°50'12" E	38.63'
L12	S 33°39'02" E	27.56'
L13	S 35°33'38" E	51.17'
L14	S 38°51'41" E	36.09'
L15	S 54°55'35" E	25.67'
L16	S 59°42'15" E	48.41'
L17	S 61°20'57" E	35.89'
L18	N 08°15'21" E	94.17'

LEGEND

- CONCRETE PAD
- TOWER
- BOUNDARY LINE
- STREET
- POWERLINE

ESTIMATED WATER LINE LOCATION BY CITY OFFICIALS

OLD LYNCH
HIGHSCHOOL
BUILDING

12/10/13
SCALE 1" = 10'



PROPOSED SITE PLAN AND STRUCTURE LOCATION
LYNCH TOWER APPALACHIAN WIRELESS

COLEMAN
ENGINEERING

P.O. BOX 153, HINDMAN, KY 41822

NOTE: SEE FOUNDATION DRAWINGS FOR DETAILS

-THE PROPOSED TOWER HAS BEEN LOCATED USING DUAL FREQUENCY GPS UNIT PROCESSED BY "OPUS"
-STATE PLANE COORDINATES NAD 83 KY SINGLE ZONE N 3522787.91 E 5751655.59, EL 1792' FT MSL
-PRECISION: HORIZONTAL=0.30' VERTICAL=0.50'
-THIS SURVEY MEETS OBSTACLE ACCURACY CODE 1A.
-PROPERTY LINE INFORMATION TAKEN FROM DEEDS AND VERIFIED IN THE FIELD.

I HEREBY CERTIFY THAT THIS DOCUMENT
WAS PREPARED BY ME OR UNDER MY DIRECTION.

12305
PE# DATE

JAMES W. CAUDILL

N:3522745.060
E:5751626.093
Z:1791.655

VIRGIL BLANTON &
DORIS BLANTON
BOOK 214 PAGE 32

LAT:36°57'47.0745"
LON:82°54'26.9405"

PROPERTY LINE

N:3522784.99
E:5751638.90
Z:1797.66

N:3522804.65
E:5751652.67
Z:1797.66

N:3522804.41
E:5751658.25
Z:1791.66

N:3522810.15
E:5751662.26
Z:1792.42

N:3522815.31
E:5751654.89
Z:1792.42

N:3522823.50
E:5751660.62
Z:1792.42

N:3522821.04
E:5751671.11
Z:1797.65

N:3522817.77
E:5751668.81
Z:1797.66

N:3522838.249
E:5751639.615
Z:1792.422

N:3522839.47
E:5751646.52
Z:1797.66

N:3522798.51
E:5751617.85
Z:1797.66

LAT:36.963076
LON:82.9074

N:3522796.62
E:5751664.37
Z:1797.66

N:3522790.89
E:5751681.42
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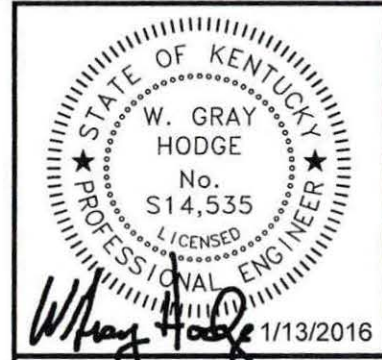
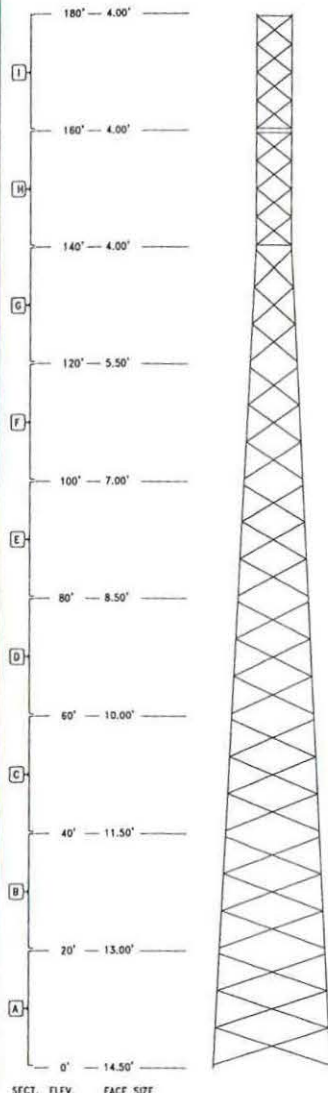
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N:3522787.908
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Z:1797.66



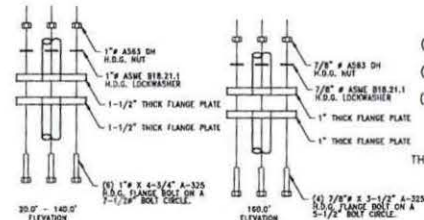
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the issuing State.

License Expires: 6/30/2017

The Engineer's seal and certification above are not valid without a verifiable digital signature in the space below.

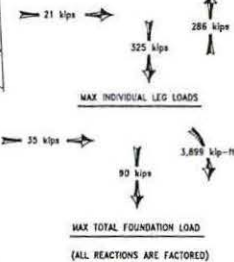
W Gray Hodge

Digitally signed by W Gray Hodge
DN: cn=W Gray Hodge, o=Hodge Structural Engineers, ou, email=ghodge@hodgestruct.com, c=US
Date: 2016.01.13 16:18:22 -06'00'



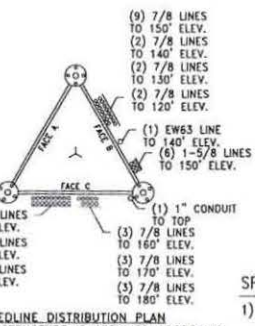
FLANGE CONNECTION DETAILS

USE "TURN-OF-THE-NUT" METHOD FOR TIGHTENING FLANGE BOLTS



SECTION	ELEVATION	FACE SIZE (S.R.)	LEG Ø (S.R.)	DIAGONALS	GRT MEMBERS				ESTIMATED TYPICAL WEIGHT PER 20' SECTION	
					FACE "A" (FEEDLINE)	FACE "B" (FEEDLINE)	FACE "C" (CLIMBING)	STEPS		HORIZONTAL
A	0' - 20'	14.0' - 13'	4"	L2-1/2X2-1/2X1/4" (5/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	3,700 LBS.
B	20' - 40'	13'-11.5'	3-3/4"	L2-1/2X2-1/2X3/16" (5/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	3,100 LBS.
C	40' - 60'	11.5'-10'	3-3/4"	L2-1/2X2-1/2X3/16" (5/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	3,000 LBS.
D	60' - 80'	10'-8.5'	3-1/2"	L2-1/2X2-1/2X3/16" (5/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	2,600 LBS.
E	80' - 100'	8.5'-7'	3-1/2"	L2X2X3/16" (5/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	2,400 LBS.
F	100' - 120'	7'-5.8'	3-1/4"	L2X2X3/16" (5/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	2,100 LBS.
G	120' - 140'	6'-6.4"	3"	L1-3/4X1-3/4X3/16" (6/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	1,950 LBS.
H	140' - 160'	4"	2-1/4"	L1-3/4X1-3/4X3/16" (6/8" X 1-3/4")	N/A	N/A	N/A	N/A	N/A	1,100 LBS.
I	160' - 180'	4"	1-3/4"	L1-3/4X1-3/4X3/16" (6/8" X 1-3/4")	N/A	N/A	N/A	N/A	L1-3/4X1-3/4X3/16" (6/8" X 1-3/4")	800 LBS.

ANTENNA	INITIAL ELEV.	LINE
(3) PANEL 1' X 8' SECTIONS A, B & C		
(4) PANEL 0.5' X 4' SECTIONS A, B & C	180'	(9) 7/8
(5) REMOTE RADIO HEAD SECTIONS A, B & C		(18) 1-5/8
(3) 12' GATE MOUNT SECTIONS A, B & C		(1) 1" RIGID CONDUIT
(3) PANEL 1' X 8' SECTIONS A, B & C	170'	
(4) PANEL 0.5' X 4' SECTIONS A, B & C		
(5) REMOTE RADIO HEAD SECTIONS A, B & C		
(3) 12' GATE MOUNT SECTIONS A, B & C		
(3) PANEL 1' X 8' SECTIONS A, B & C	160'	
(4) PANEL 0.5' X 4' SECTIONS A, B & C		
(5) REMOTE RADIO HEAD SECTIONS A, B & C		
(3) 12' GATE MOUNT SECTIONS A, B & C		
(3) PANEL 1' X 8' SECTIONS A, B & C	150'	(3) 7/8
(4) PANEL 0.5' X 4' SECTIONS A, B & C		(6) 1-5/8
(5) REMOTE RADIO HEAD SECTIONS A, B & C		
(3) 12' GATE MOUNT SECTIONS A, B & C		
(3) WHIP 15' SECTIONS A, B & C		(6) 7/8
(1) 8' PARABOLIC DISH (NO RADOME), W/DISH MOUNT	140'	(2) 7/8
(2) 4' PARABOLIC DISH (NO RADOME), W/DISH MOUNT		(1) EW63
(2) 8' PARABOLIC DISH (NO RADOME), W/DISH MOUNT	130'	(2) 7/8
(3) 8' PARABOLIC DISH (NO RADOME), W/DISH MOUNT	120'	(2) 7/8



FEEDLINE DISTRIBUTION PLAN

THE TOWER STRUCTURE IS DESIGNED ACCORDING TO THE FEEDLINE DISTRIBUTION INFORMATION PROVIDED.

- DESIGN INFORMATION & MEMBER CHART NOTES:**
- TOWER IS LOCATED IN HARLAN COUNTY, KY. TOWER IS DESIGNED FOR EXPOSURE B WITH A 90 MPH BASIC WIND (3-SECOND WIND GUST) IN ACCORDANCE WITH THE TIA-222-G STANDARD. DEFLECTIONS ARE BASED UPON A 60 MPH WIND. TOWER STRUCTURE CLASS II. TOPOGRAPHIC CATEGORY 1 WITH CREST HEIGHT OF 0'.
 - TOWER IS ALSO DESIGNED FOR 30 MPH BASIC WIND WITH 0.50 IN ICE. ICE IS CONSIDERED TO INCREASE IN THICKNESS WITH HEIGHT.
 - ALL LEG, LEG FLANGE PL MATERIAL IS ASTM A-572 GRADE 50 (Fy ≥ 58 ksi). ANGLE DIAGONALS MATERIAL IS ASTM A529-50 (Fy ≥ 50 ksi).
 - SECTIONS A-G ARE 3-BAY X-BRACED. SECTIONS H & I ARE A 4-BAY X-BRACED.
 - TOWER DESIGNED FOR STEP BELTS. TOWER DESIGNED FOR FEEDLINES TO BE MOUNTED SINGLE ROW ON A CLIP-ON WAVEGUIDE LADDER PER FEEDLINE DISTRIBUTION DRAWING.
 - STRUCTURAL CONNECTIONS USE GALVANIZED A-325 BOLTS WITH NUTS AND LOCK WASHERS PER TIA/EIA-222 AND AISC SPECIFICATIONS.
 - TOWER MEMBERS ARE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS.
 - ALL STRUCTURAL STEEL WELDING TO BE IN COMPLIANCE WITH AWS D1.1 LATEST REVISION AND FABRICATED WITH ER-70S-6 ELECTRODES.
- MARKING NOTES:**
- BASE SECTION IS TO BE STAMPED @ THE BASE PLATE. ALL OTHER SECTIONS ARE STAMPED AT THE TOP.
 - SECTION LABELING SYSTEM INFORMATION IS GIVEN IN THE DETAILED INFORMATION CHART. THE LABELING SYSTEM IS TO BE USED FOR PROPER IDENTIFICATION OF ALL SECTIONS AND TO ENSURE PROPER INSTALLATION.
- SPECIAL NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
 - (18) 1" X 79" LONG F-1554-105 ANCHOR BOLT (H.D.G.)
 - THE TOWER DESIGNED FOR GROUT TO BE INSTALLED UNDER BASE FLANGES.

REV. #	DESCRIPTION	DATE	APP.	DRAWN	DATE
				J.W.L.	1-12-16
				CHECK	DATE
				S.L.	1-12-16
				APPROVAL	DATE
				J.J.B.	1-12-16

Tower Innovations

PH# (812) 853-0595
FAX# (812) 853-6652
3266 TOWER DRIVE
NEWBURGH, IN. 47630

TITLE
ELEVATION VIEW & MEMBER INFORMATION
LYNCH, (HARLAN COUNTY), KY

DWG NO.
6433-T1 (HSE 16S-0003 T1 6433)

REV
-

DO NOT SCALE DRAWING

PAD (TOP L

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#9 GRADE 60	20'-0"	42	840'

PAD (BOTTOM LAYER)

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#9 GRADE 60	20'-0"	42	840'

PIER (verts) (Total for 3 Piers)

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#9 GRADE 60	9'-11"	36	360'

PIER (ties) (Total for 3 Piers)

REBAR SIZE	REBAR LENGTHS	# OF REBAR	TOTAL FT. REQ'D
#4 GRADE 60	30"∅	36	285'

APPROXIMATE CONCRETE REQ'D = 30 CUBIC YARDS

NOTES:

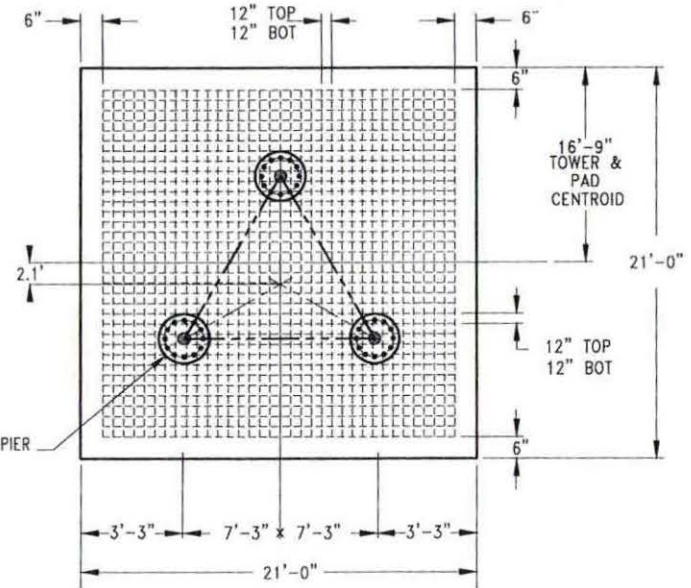
- 1) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 301 AND ACI318.
- 2) THIS FOUNDATION IS DESIGNED TO CONFORM ACI 318-02 AND ANSI/TIA-222-G STANDARDS UTILIZING THE GEOTECHNICAL SITE ASSESSMENT PREPARED BY ERM, PROJECT NO. 165-000-00017, DATE SOIL CONDITIONS THAT DIFFER FROM THOSE DESCRIBED IN THE SITE ASSESSMENT SHALL BE TO THE ATTENTION OF THE ENGINEER OF RECORD/INSPECTOR.
- 3) ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS. CYLINDERS SHALL BE PROPERLY CAST WITH COPIES OF THE TEST REPORTS GOING TO THE RESIDENT ENGINEER/INSPECTOR. ALL REINFORCING STEEL SHALL BE ASTM A615-60.
- 4) ALL ADMIXTURES MUST BE ADDED SEPARATELY INTO FRESH CONCRETE AND SUFFICIENTLY MIXED. A NON-CORROSIVE CONCRETE SET ACCELERATE MAY BE UTILIZED IN COMPLIANCE WITH ASTM 494 TYPE C. A WATER REDUCING ADMIXTURE MAY BE UTILIZED IN COMPLIANCE WITH ASTM 494 TYPE A.
- 5) ALL BACKFILL SHALL BE PLACED IN 9 INCH LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY AS MEASURED BY ASTM D-698 UNLESS MORE STRINGENT COMPACTION IS REQUIRED BY THE SOIL REPORT.
- 6) MINIMUM CONCRETE COVER SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
- 7) CROWN TOP OF PIER FOR DRAINAGE AND CHAMFER ALL EXPOSED CONCRETE EDGES 1 INCH.
- 8) SEE TEMPLATE DRAWING & TEMPLATE DESIGN CHART FOR TOWER LAYOUT DIMENSIONS, USE OF TEMPLATE IS REQUIRED TO INSURE PROPER LOCATION AND ORIENTATION OF ANCHOR BOLTS.
- 9) OVEREXCAVATE TO ROCK AND BACKFILL IN STRICT ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

REBAR SPlicing CHART

BAR SIZE	SPlice LENGTH BOTTOM BARS	SPlice LENGTH TOP BARS
#3	19"	25"
#4	25"	33"
#5	31"	41"
#6	37"	49"
#7	54"	71"
#8	62"	81"
#9	70"	91"
#10	78"	102"
#11	85"	111"

SPlicing NOTES:

- 1) STAGGER ALL SPlices.
- 2) SPlicing CHART IS BASED ON 4000 PSI CONCRETE AND CLASS B SPlicing.
- 3) SPlicing REBAR ONLY WHEN NECESSARY.



12-3-2015
Brought

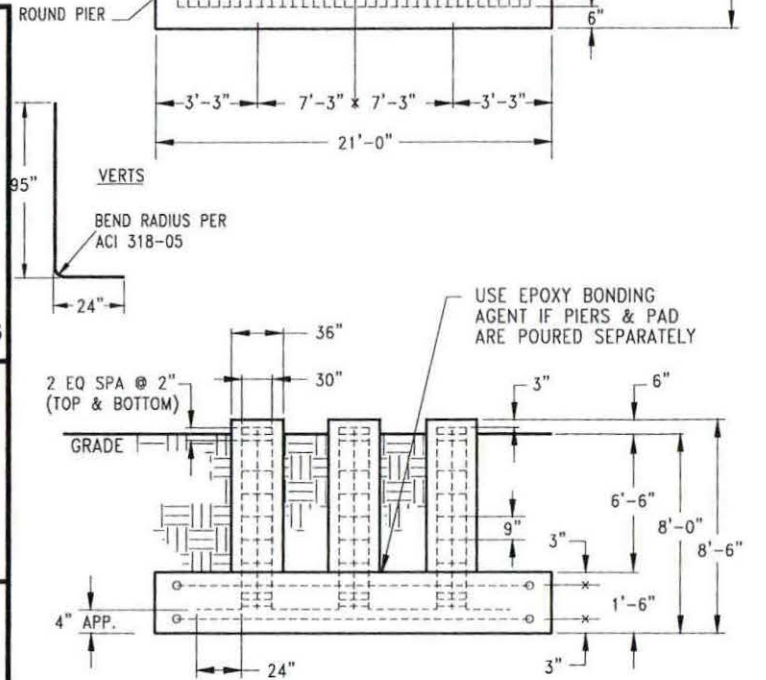
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the issuing State.

License Expires: 6/30/2017

The Engineer's seal and certification above are not valid without a verifiable digital signature in the space below.

W Gray Hodge

Digitally signed by W Gray Hodge
DN: cn=W Gray Hodge, o=Hodge Structural Engineers, ou, email=ghodge@hodgestructural.com, c=US
Date: 2016.01.13 16:20:26 -06'00'



(12) #9 VERTS PER PIER
#4 TIES @ 9" C-C CAN BE USED FOR PIER REBAR

Tower Innovations
PH# (812) 853-0595
FAX# (812) 853-6652
3266 TOWER DRIVE
NEWBURGH, IN 47630

REV. #	DESCRIPTION	DATE	APP.	DRAWN	DATE
				J.W.L.	1-12-16
				CHECK	DATE
				S.L.	1-12-16
				APPROVAL	DATE
				J.J.B.	1-12-16

TITLE
PAD & PIER FOUNDATION DESIGN
LYNCH, KY

DWG NO.
6433-F1

REV
-

DO NOT SCALE DRAWING



THIRD ANGLE PROJECTION

COMPANY CONFIDENTIAL INFORMATION CONTAINED HEREIN IS CONFIDENTIAL. IT IS TO BE USED SOLELY FOR THE PURPOSE PROVIDED, AND IS NOT TO BE DISCLOSED TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF TOWER INNOVATION

TOLERANCES
 .X± 3/32" ANGLES± 2'
 .XX± 3/32" DRILLED HOLE± #1/32"
 .XXX± 1/16" BURNED HOLE± #1/16"

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN: INCHES



**Federal Aviation
Administration**

FAA Advisory Circular 70/7460-1L, Obstruction Marking Lighting was published on 12/4/2015,
and is effective as of that date. The document may be viewed at

[http://www.faa.gov
/regulations_policies
/advisory_circulars/index.cfm
/go/document.information
/documentID/1028657](http://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentID/1028657)

Notice of Proposed Construction or Alteration - Off Airport

Project Name: EAST -000353774-16

Sponsor: East Kentucky Network, LLC

Details for Case : Lynch

[Show Project Summary](#)

Case Status

ASN: 2016-ASO-761-OE
Status: Accepted

Date Accepted: 01/14/2016
Date Determined:
Letters: None
Documents: 01/14/2016

Public Comments: None

Project C
None

Construction / Alteration Information

Notice Of: Construction
Duration: Permanent
if Temporary : Months: Days:
Work Schedule - Start: 02/15/2016
Work Schedule - End: 02/20/2016

Structure Summary

Structure Type: Tower
Structure Name: Lynch
FDC NOTAM:
NOTAM Number:
FCC Number:
Prior ASN:

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

State Filing: Filed with State

Structure Details

Latitude: 36° 57' 47.07" N
Longitude: 82° 54' 26.94" W
Horizontal Datum: NAD83
Site Elevation (SE): 1792 (nearest foot)
Structure Height (AGL): 190 (nearest foot)
Current Height (AGL): (nearest foot)
** For notice of alteration or existing provide the current AGL height of the existing structure. Include details in the Description of Proposal*

Common Frequency Bands

Low Freq	High Freq
698	806
806	824
824	849
851	866
869	894
896	901
901	902
930	931
931	932
932	932.5
935	940
940	941
1850	1910
1930	1990
2305	2310
2345	2360

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

Nacelle Height (AGL): (nearest foot)
** For Wind Turbines 500ft AGL or greater*

Specific Frequencies

Requested Marking/Lighting: None

Other :

Recommended Marking/Lighting:

Current Marking/Lighting:

N/A Proposed Structure

Other :

Nearest City:

Lynch

Nearest State:

Kentucky

Description of Location:

On the Project Summary page upload any certified survey.

Corner of Gap Branch Rd and E
Main Street, Lynch (Harlan), KY

Description of Proposal:

A new 180' tower with
top-mounted antennas (overall
height of 190' AGL)

Previous Back to
 Search Next →
 Result



KENTUCKY AIRPORT ZONING COMMISSION

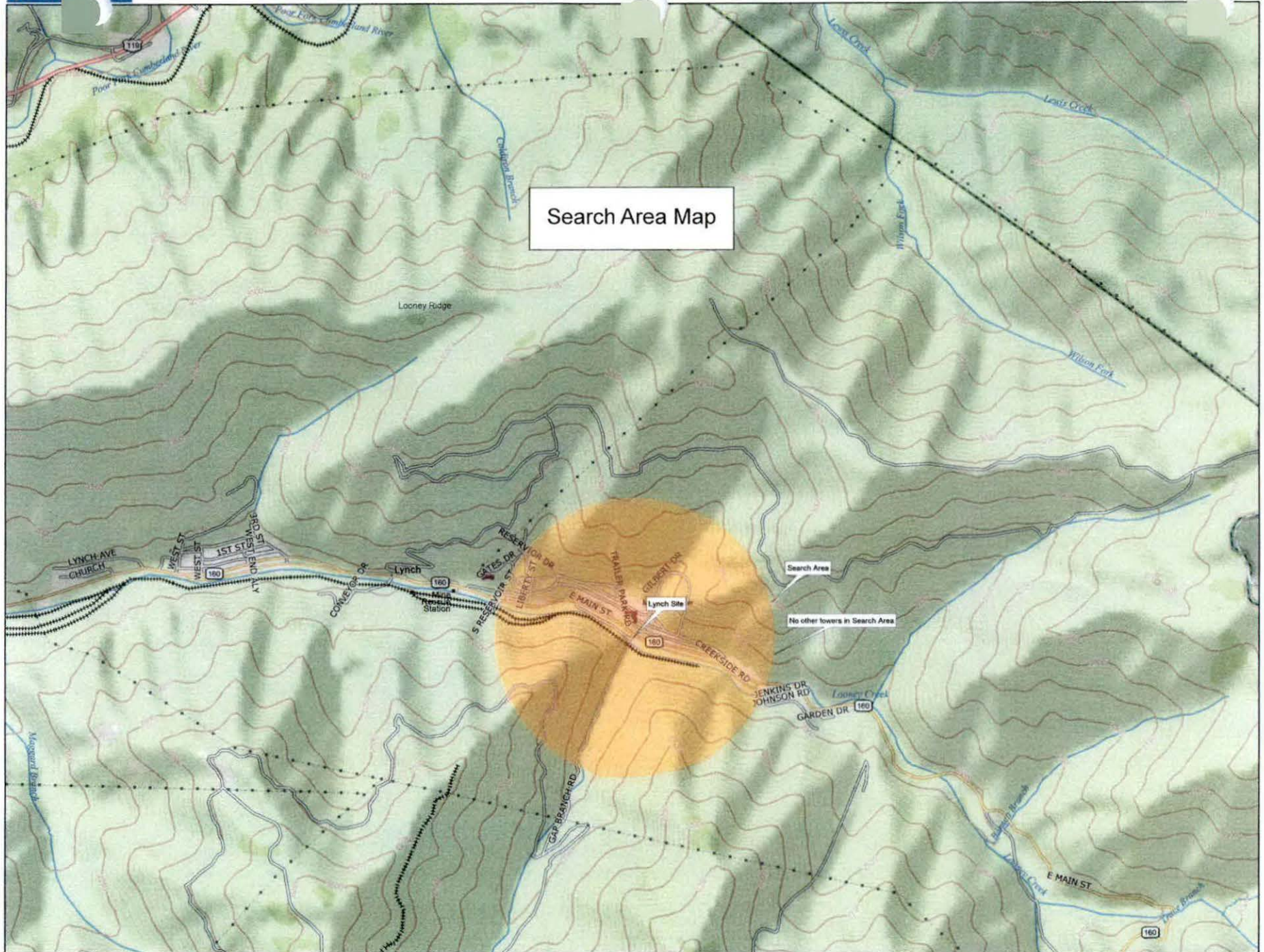
APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) East Kentucky Network, LLC c/o LNGS		PHONE 703-584-8667	FAX 703-584-8692	KY AERONAUTICAL STUDY #	
ADDRESS (street) 8300 Greensboro Dr, #1200		CITY McLean		STATE VA	ZIP 22102
APPLICANT'S REPRESENTATIVE (name) Ali Kuzehkanani		PHONE 703-584-8667	FAX 703-584-8692		
ADDRESS (street) 8300 Greensboro Dr, #1200		CITY McLean		STATE VA	ZIP 22102
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start 02/15/16 End 02/20/16	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building		MARKING/PAINTING/LIGHTING PREFERRED			
<input checked="" type="checkbox"/> Antenna Tower		<input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity			
<input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank		<input type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white			
<input type="checkbox"/> Landfill <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Other None			
LATITUDE 36°57'47.07"		LONGITUDE 82°54'26.94"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27	
<input type="checkbox"/> Other					
NEAREST KENTUCKY City Lynch County Harlan		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Lonesome Pine Airport			
SITE ELEVATION (AMSL, feet) 92		TOTAL STRUCTURE HEIGHT (AGL, feet) 190		CURRENT (FAA aeronautical study #)	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1982				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 20.9 miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) East					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) Corner of Gap Branch Rd & E Main Street, Lynch (Harlan), KY					
DESCRIPTION OF PROPOSAL A new 180' tower with top-mounted antennas (overall height of 190' AGL)					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 01/14/16					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME Ali Kuzehkanani	TITLE Dir of Engineering	SIGNATURE <i>Ali Kuzehkanani</i>		DATE 01/14/16	
COMMISSION ACTION					
<input type="checkbox"/> Chairperson, KAZC					
<input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved	SIGNATURE		DATE		
<input type="checkbox"/> Disapproved					

Driving Directions for Lynch

From the Courthouse located in Harlan County at the intersection of First Street and Central Street take Central Street 1/10 of a mile to the junction of Central Street and 421. Turn right onto 421 traveling 22 miles, exit to the right onto 160. Go 1/10 of a mile then turn left at the light. Go 4 miles then turn right at Gap Branch. The site will be on your left (signs will be posted here).

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



Search Area Map

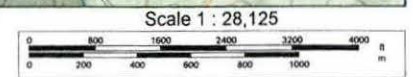
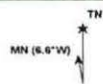
Search Area
No other towers in Search Area

Lynch Site

Data use subject to license.

© DeLorme. Topo North America™ 9.

www.delorme.com



Scale 1 : 28,125

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

98808

LEASE AGREEMENT

THIS LEASE AGREEMENT is made and entered into on the 19th day of September, 2013, with an effective date of October 1, 2013, by and between **City of Lynch**, of P.O. Box 667, Lynch, Kentucky 40855, **LESSORS**, and **East Kentucky Network, LLC, d/b/a Appalachian Wireless**, of 101 Technology Trail, Ivel, Kentucky 41642, **LESSEE**:

WITNESSETH:

That for and in consideration of the rents and other considerations hereinafter set out and subject to the terms and conditions therefore, Lessor(s) do hereby lease, let and demise unto Lessee, its successors and assigns, to have and to hold for the term hereinafter set out and subject to the Lessee's right to surrender or terminate this Lease and provided hereinafter, the following described premises (Leased Premises), which term shall include all real property, rights and privileges herein granted:

BEING the same property described by metes and bounds in the description attached hereto and made a part hereof as Exhibit "A", and as shown on the plat dated July 2, 2013, prepared by James W. Caudill, Licensed Professional Land Surveyor, and attached hereto and made a part hereof as Exhibit "B".

The Lessor grants unto Lessee full and complete right of ingress, egress and regress over roads located upon this property controlled by Lessor to and from the Leased Premises, and the nonexclusive right to use any existing road located on this property. In the event the Lessee desires to relocate all or any portion of an existing roadway or to construct another access road to the Leased Premises, the location of such roadway shall be mutually agreed upon by Lessor and Lessee. Lessor further grants to the Lessee a right of way and easement to construct and maintain and operate telephone and power transmission lines over Lessors remaining property to the Leased Premises for service of the tower and related facilities only, said lines to be located where feasible along the access road to the Leased Premises, with Lessor having input as to

1166

location of said power transmission lines in the event Lessee changes the location of its access road. Lessee shall have the right to trim or remove trees, limbs or underbrush which interferes with its access road or power/telephone lines wherever such road and lines are located or may damage tower if they fall. Lessee shall maintain the existing road with gravel and needed repairs.

This Lease is made on the following terms and conditions:

1. **TERM OF LEASE.** The term of this lease shall be for a period of five (5) years from the effective date with an allowance of an additional six (6) automatic renewals of five (5) year terms unless Lessee gives Lessor written notice at least sixty (60) days prior to expiration of then said Term that Lessee does not wish to renew.

2. **CANCELLATION.** Lessee shall have the right to terminate this Lease and abandon the Premises at any time under its sole discretion, upon six (6) month written notice to Lessor of its intention to do so. In the event that Leased Premises fail the process for approval as an acceptable cellular tower site by the Federal Communications Commission or any tests or requirements as required for such approval (the "FCC Process") or approval by the Public Service Commission of Kentucky (the "PSC"), or any other regulatory approval required, then in its sole discretion Lessee may terminate this Lease Agreement upon thirty (30) days written notice to Lessor of such intention. In the event of termination by Lessee, the Lessor shall have no obligation to refund all or any portion of the Leasehold rental payment that has been paid through the date of termination. Upon termination of this Lease, Lessee shall have one hundred eighty (180) days thereafter to remove all structures it has erected upon the Leased Premises, and to reclaim the premises. Payment shall continue until said structures are removed.

3. **RENTAL.** As rental for the Leased Premises, Lessee shall pay Lessor \$350.00 per month with an increase of 5% added to the rental payment every five years. Please see table below for scheduled rent payments.

<u>YEAR</u>	<u>AMOUNT</u>
1-5	350.00
6-10	367.50
11-15	385.88
16-20	405.17
21-25	425.43
26-30	446.70
31-35	469.04

4. USE OF PREMISES. Lessee shall have the exclusive rights and privileges of the use of the Leased Premises for the purpose of constructing a tower, buildings, and other related facilities, including, but not limited to telephone lines, coaxial lines, power lines and the installation of any and all other equipment deemed necessary by Lessee to receive and transmit any and all electronic signals in the rural service area now or hereafter 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 Lessee, that being to transmit and receive signals and communications by wire, fiber optics, radio and satellite. Lessee shall not use the Leased Premises for purposes other than maintenance or use as a site for communications by the use of methods now or hereafter known. Lessee grants Lessor permission to place two (2) 2-way radio antennas on Lessee's telecommunication tower after construction has been completed. Please see guidelines and restrictions for use and placement of 2-way radio antennas attached hereto and a part hereof as Exhibit "C".

Lessee agrees to maintain the Leased Premises in a neat and orderly manner.

5. INDEMNITY. Lessee agrees to indemnify and save harmless the Lessor from any liability by virtue of Lessee's activities upon the Leased Premises or in the exercise of any rights and privileges granted herein, specifically including but not limited to any claim, loss, fine, penalty and costs (including reasonable attorney's fees) arising out of any violation of any

environmental laws or regulations. This provision shall survive the termination of the lease. Lessee shall maintain and keep in full force and effect public liability and property damage insurance in an amount of at least One Million Dollars (\$1,000,000.00). Lessor shall not be held liable for personal injury or property damage on the Leased Premises whether or not associated with Lessee.

6. **TAXES.** Lessee shall pay all personal property taxes assessed on or any portion of such taxes attributable to the equipment used by Lessee on the Premises. Lessor shall pay when due all real property taxes and all other fees and assessments attributable to the Premises. Lessee shall reimburse the Lessor as additional compensation for any increase in real estate taxes levied against the Lessor (or its successors or assigns) which are directly attributable to or arise as a result of the improvements constructed by the Lessee, its successors or assigns. Payment will be issued after Lessee receives written proof from Lessor that the increase in real estate taxes levied is due to improvements constructed by the Lessee.

7. **MISCELLANEOUS PROVISIONS.** All notices, demands, or other writings in this Lease Agreement provided to be given, made or sent, or which may be given or made or sent, to either party hereto to the other, shall be deemed to have been fully given or made or sent when made in writing and deposited in the United States Mail, certified and postage prepaid, to Lessor and Lessee at the addresses stated in the caption of this Lease Agreement. Such addresses may be changed by written notice given by such party as above provided.

8. **SUCCESSORS AND ASSIGNS.** This Lease Agreement shall be binding upon the parties hereto, their heirs, executors, administrators and assigns.

WITNESS OUR HANDS, the day and year aforesaid.

LESSORS:

CITY OF LYNCH

BY: John S. Adams

ITS: MAYOR of Lynch

STATE OF KENTUCKY
COUNTY OF Floyd

The foregoing Lease Agreement was this 19th day of September, 2013, produced and acknowledged before me by **City of Lynch**, by John S. Adams, its Mayor, Lessor.

Lynne Haney

NOTARY PUBLIC

COMMISSION EXPIRES: _____

My Commission Expires
July 14, 2015

LESSEE:

EAST KENTUCKY NETWORK, LLC
d/b/a APPALACHIAN WIRELESS

BY: Gerald F. Robinette

ITS: GENERAL MANAGER

STATE OF KENTUCKY
COUNTY OF FLOYD

The foregoing Lease Agreement was this 19th day of September, 2013, produced and acknowledged before me by **East Kentucky Network, LLC, dba Appalachian Wireless** by **Gerald F. Robinette**, its **General Manager**, Lessee.

Lynn Haney
NOTARY PUBLIC
COMMISSION EXPIRES: _____

My Commission Expires
July 14, 2015

THIS INSTRUMENT PREPARED BY:

Frank K. Nall

HON. FRANK K. NALL
ATTORNEY AT LAW
P.O. BOX 1018
PIKEVILLE, KENTUCKY 41502

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Exhibit "A"

LOT DESCRIPTION

Property of
City of Lynch
Main Street
Lynch, KY 40855

Near Looney Creek in Harlan County
July 2, 2013

A portion of the property lying within the tract of land located on Looney Creek in Harlan County Kentucky, in the City of Lynch. Being a part of the same land conveyed by deed from United States Steel Corporation to the City of Lynch by Deed dated January 3rd, 1995 and recorded in Deed Book 315 Page 323 of the Harlan county Court Clerk.

Unless stated otherwise, any monument referred to herein as "set iron pin with cap" is a set 1/2" diameter rebar, at least eighteen (18") in length, with a plastic cap stamped "LS-2259". All bearings stated herein are referred to a prior survey of adjoining property. This survey preformed by James W. Caudill, LS2259, on July 2, 2013

Lot 1A

Beginning on a set pk nail in concrete on the right of way of Gap Branch Street near it's intersection with Highway 160 (Main Street) and on the line of the property of the City of Lynch (Book 315 Page 323); thence leaving the right of way and severing the land of the City of Lynch South 53 deg 13 min 55 sec East, 50.00 feet to a set iron pin with cap marked ls2259 in the gravel lot, South 36 deg 46 min 05 sec West, 50.00 feet to a set iron pin with cap marked ls2259, North 53 deg 13 min 55 sec West, 50.00 feet to a set iron pin with cap marked ls2259 on the right of way of Gap Branch Street; thence running with the right of way North 36 deg 46 min 05 sec East, 50.00 feet to the beginning. Containing a calculated area of 2500 sq ft or 0.057 acres.

This survey was performed on July 2, 2013 by James W. Caudill, a Kentucky Licensed Professional Land Surveyor No. 2259.

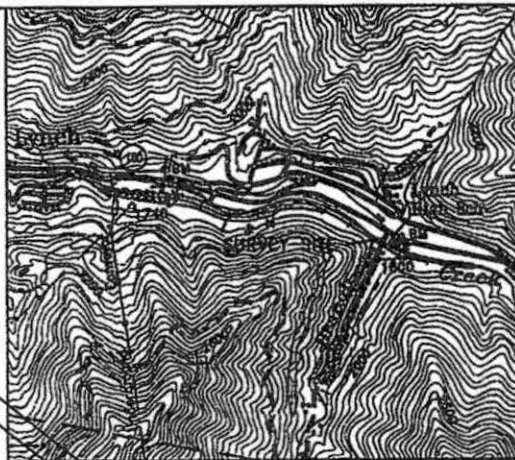
James W. Caudill



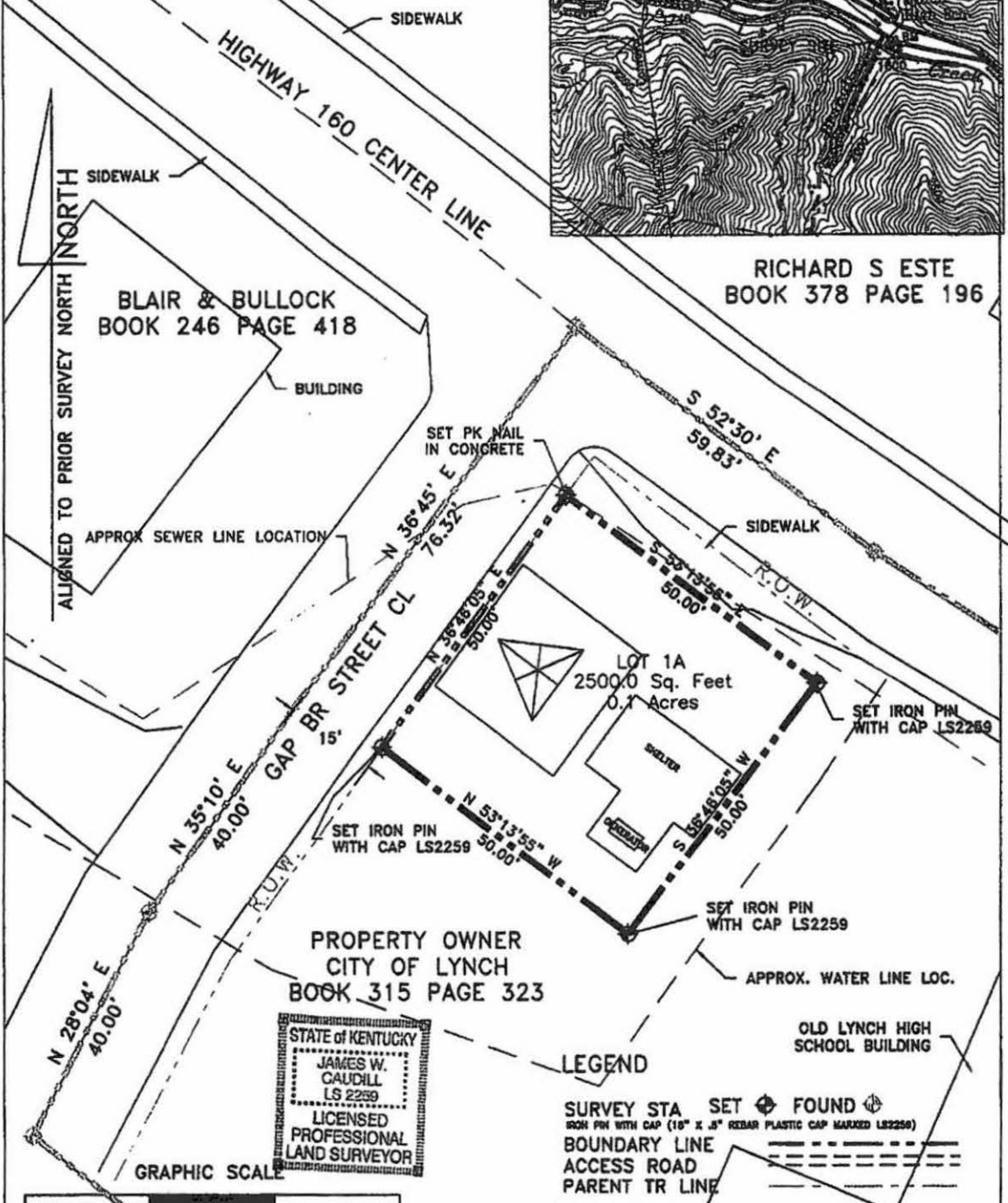
James W. Caudill, PLS #2259

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APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
 PROPOSED TOWER SITE
 LYNCH IN HARLAN COUNTY



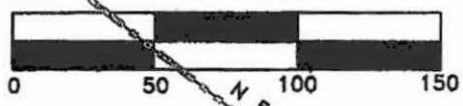
RICHARD S ESTE
 BOOK 378 PAGE 196



PROPERTY OWNER
 CITY OF LYNCH
 BOOK 315 PAGE 323

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

LEGEND
 SURVEY STA SET FOUND
 IRON PIN WITH CAP (1/8" x 3/8" REBAR PLASTIC CAP MARKED LS2259)
 BOUNDARY LINE
 ACCESS ROAD
 PARENT TR LINE



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

James W. Caudill 2259 7-2-13
 NAME PLS# DATE

PROPERTY SURVEY		
DRAWN BY JWC	SURVEY DATE 07/02/2013	SUB DIVISION CITY OF LYNCH MAIN STREET LYNCH, KY 40855 DEED BOOK 315 PAGE 322
CHECKED BY JWC	DRAWING DATE 07/02/2013	
SCALE 1" = 20'	SHEET 1 OF 1	SURVEYED BY JAMES W. CAUDILL LS2259 2999 PERKINS/HADDER ROAD ANDOVER, KY 41775 PHONE 508-612-3217

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Exhibit "C"

Guidelines and Restrictions for 2-Way Antennas

1. Lessor may place two (2) 2-way antennas and any necessary hardware and hardlines on Lessee's telecommunications tower to be located in Lynch, KY (Coordinates Latitude 37 Degrees, 11 Minutes, 36 Seconds, Longitude 83 Degrees, 11 Minutes, 17 Seconds).
2. Antennas are to be located at the 150' level of the tower.
3. Lessor will have floor space and one 15 amp power feed in Lessee's telecommunication hut.
4. Lessor agrees that only certified personnel shall be allowed to climb the tower for equipment installation and maintenance. Lessor agrees that only independent contractors and authorized employees of Lessor under direct supervision of Lessor will be permitted to enter the premises and/or building. Lessor will ensure that all authorized independent contractors, certified personnel and employees will have the proper commercial liability insurance and workman's compensation insurance.
5. Lessor agrees to indemnify and save harmless the Lessee from any liability by virtue of Lessor's activities upon the premises or in the exercise of any rights and privileges granted herein, specifically including but limited to any claim, loss, fine, penalty and costs arising out of any violation of any environmental laws or regulations. Lessee shall not be held liable for personal injury or property damage on the premises whether or not associated with Lessor.
6. The equipment installed on Lessee's tower shall be of type and frequency which will not measurably interfere with the use of the tower by Lessee. After the initial installation of the equipment, Lessor shall not make any material changes in the equipment or frequency thereof (such as additional radio gear, additional antennas, changes in modulation power), which would interfere with existing radio and/or television frequencies utilized by Lessee and other persons using the tower without prior approval by Lessee.
7. In the event it is determined that Lessor's equipment is causing unreasonable interference with existing radio frequencies, Lessor shall take all reasonable steps necessary to correct and eliminate such interference. If such interference cannot be eliminated within a reasonable length of time as determined by Lessee, Lessor shall suspend operation until the interference is eliminated. If the interference is not eliminated, Lessor shall remove the equipment without further obligation by either party except the other terms of the attached lease.
8. Lessee shall not be an insurer of Lessor. No insurance coverage of any kind shall be provided by Lessee for Lessor's property and/or equipment.
9. Lessee shall not be liable to Lessor for damages caused by acts of God, vandalism, or other acts beyond the control of the Lessee although Lessee shall exercise due diligence to restore the services and facilities regardless of the nature of such cause.

10. Lessor shall have permission to remain on Lessee's tower during the term of the attached lease provided the above guidelines and restrictions are followed.

11. All notices, requests or other communications hereunder shall be deemed to be sufficiently given when mailed by registered or certified mail, postage prepaid, addressed to the following addresses:

Lessor: City of Lynch
P.O. Box 667
Lynch, KY 40855

Lessee: East Kentucky Network, LLC
Attn: Lynn Haney
101 Technology Trail
Ivel, KY 41642

12. Lessor and Lessee may, by notice given hereunder, designate any further or different addresses to which subsequent notices, certificates, requests or other communications shall be sent.

13. This document represents the entire agreement of the Parties. Any representation, promise, condition, inducement or warranty, expressed or implied, not included in writing in this agreement shall not be binding upon any party. The terms and conditions of this agreement apply as printed without alteration or qualification, except as specifically modified in writing and consented to by both parties.

STATE OF KENTUCKY, COUNTY OF HARLAN
I DONNA G. HOSKINS, Clerk of the County in and for
the County and State aforesaid, certify that the foregoing

Lease
was on the 8th day of Oct 2013, at 11:40 AM
lodged for record, whereupon the same with the foregoing
and this Certificate, have been duly recorded in my office
in Lease BOOK NO. 51 PAGE 1101

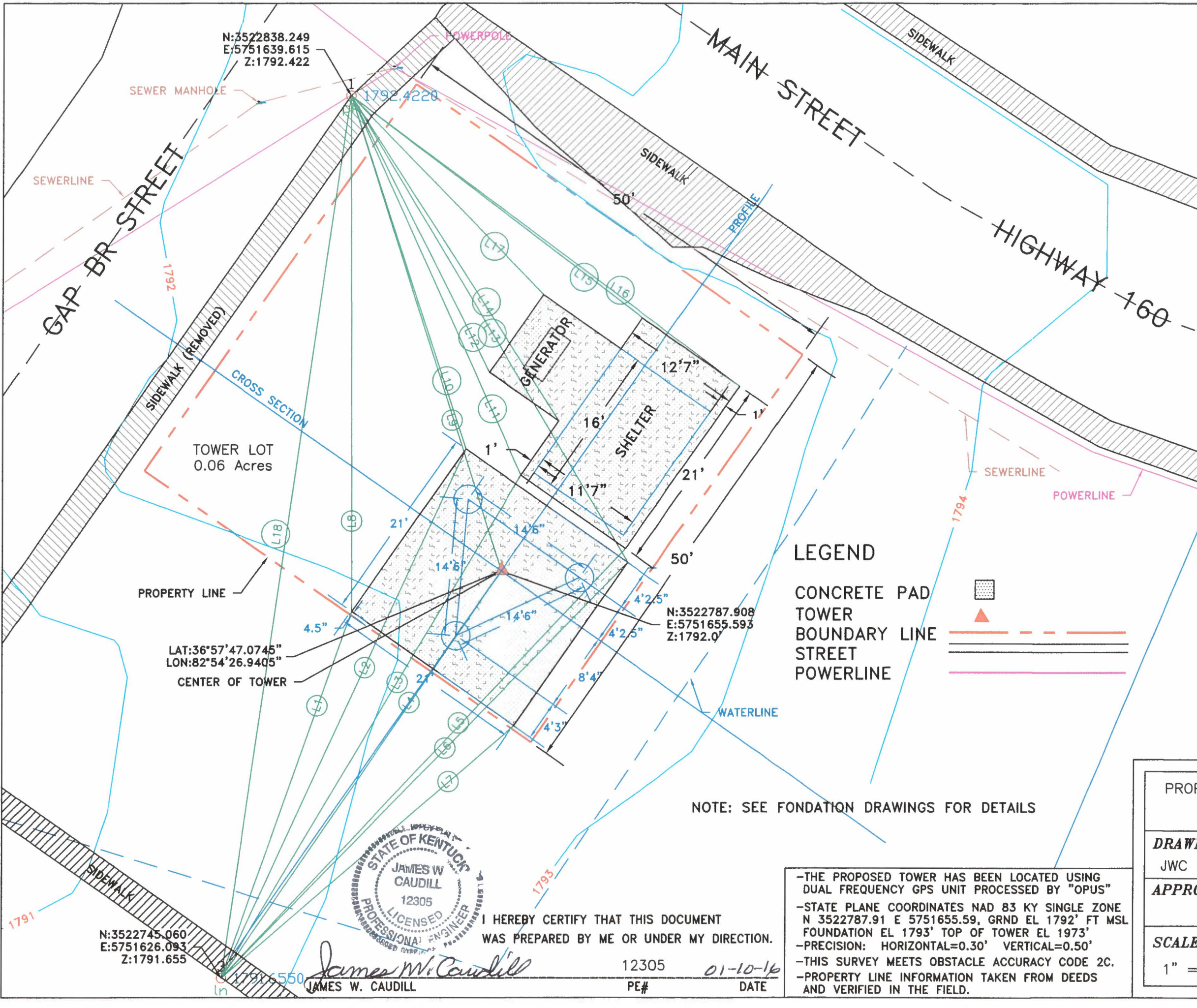
Witness my hand this 8th day
of October, 2013
DONNA G. HOSKINS, Clerk

By: April Lewis D.C.
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APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
PROPOSED TOWER SITE
 LYNCH IN HARLAN COUNTY

STAKEOUT		
LINE	BEARING	DISTANCE
L1	N 19°32'03" E	40.91'
L2	N 24°45'47" E	61.41'
L3	N 30°47'14" E	61.67'
L4	N 34°32'46" E	52.02'
L5	N 43°22'22" E	62.17'
L6	N 44°28'21" E	61.29'
L7	N 49°21'05" E	40.71'
L8	S 00°10'00" E	54.63'
L9	S 17°36'34" E	52.82'
L10	S 18°03'15" E	39.37'
L11	S 24°10'16" E	44.07'
L12	S 26°36'47" E	32.79'
L13	S 30°44'44" E	57.54'
L14	S 32°36'57" E	40.93'
L15	S 52°39'45" E	38.87'
L16	S 53°14'10" E	51.45'
L17	S 44°02'13" E	29.35'
L18	N 08°15'21" E	94.17'

NORTH
 ALIGNED TO NAD83 KY SINGLE ZONE STATE PLANE NORTH



LEGEND

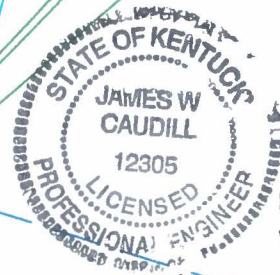
- CONCRETE PAD
- TOWER
- BOUNDARY LINE
- STREET
- POWERLINE

01/10/16
 SCALE 1" = 10'

NOTE: SEE FONDATION DRAWINGS FOR DETAILS

PROPOSED SITE PLAN AND STRUCTURE LOCATION PROPOSED LYNCH TOWER		
DRAWN JWC	DATE 01/10/16	LYNCH TOWER CITY OF LYNCH TRACT OFF HIGHWAY 160 IN HARLAN COUNTY
APPROVED	DATE	
SCALE 1" = 10'	SHEET 2 OF 3	PROJECT NO. LYNCH/LYNCHPLAN10

-THE PROPOSED TOWER HAS BEEN LOCATED USING DUAL FREQUENCY GPS UNIT PROCESSED BY "OPUS"
 -STATE PLANE COORDINATES NAD 83 KY SINGLE ZONE N 3522787.91 E 5751655.59, GRND EL 1792' FT MSL FOUNDATION EL 1793' TOP OF TOWER EL 1973'
 -PRECISION: HORIZONTAL=0.30' VERTICAL=0.50'
 -THIS SURVEY MEETS OBSTACLE ACCURACY CODE 2C.
 -PROPERTY LINE INFORMATION TAKEN FROM DEEDS AND VERIFIED IN THE FIELD.



I HEREBY CERTIFY THAT THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECTION.

James W. Caudill
 JAMES W. CAUDILL
 12305 PE# 01-10-16 DATE

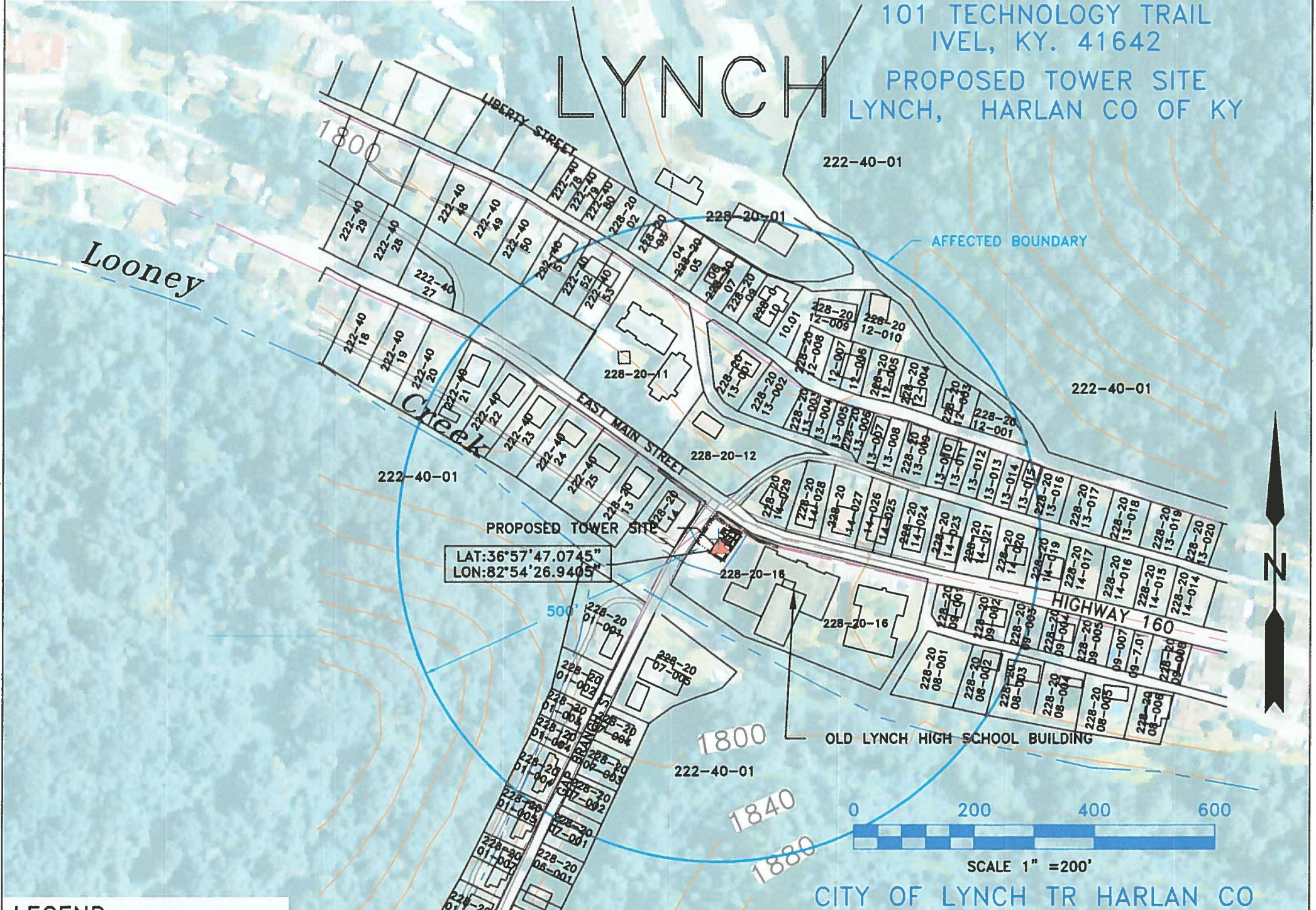
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- 222-40-01 ACIN, LLC, attn. Terry Irons, 5260, Irwin Rd, Huntington, WV 25705-3217
- 222-40-15 Johnathan L & Angelina R Mon Hollen, P.O. Box 211, Lynch, KY 40855
- 222-40-16 James David & Lynn Jones, P.O. Box 434, Benham, KY 40807
- 222-40-17 Sammy David & Cecelia Sue Farris, 759 Cape Norris Rd, New Tazwell, TN 37825
- 222-40-18 Alexander & Mary Jane Feher, Box 746, Lynch, KY 40855
- 222-40-19 William M & Karen Miller, P.O. Box 656, Lynch, KY 40855
- 222-40-20 Leslie J & Gena F Young, P.O. Box 878, Lynch, KY 40855
- 222-40-21 Herbert & Wilma Denney, 1153 Knob Hill Dr., Jacksonville, FL 32221-6173
- 222-40-22 Gwen Bullock, 1317 Fairchild St, Cumberland, KY 40823
- 222-40-23 Buffy Henry, 604 John Sutherland Dr., Nicholasville, KY 40356
- 222-40-24 David & Mary C Boggs, P.O. Box 172, Lynch, KY 40855
- 222-40-25 Alfred Marzell Lee, P.O. Box 34, Lynch, KY 40855
- 222-40-27 Barbara Faye Tiplon, P.O. Box 145, Lynch, KY 40855
- 222-40-28 Melvin Jr. & Deborah Hardy, P.O. Box 833, Lynch, KY 40855
- 222-40-29 Shirley & Elizabeth Ann Scott, 309 Combs Lane, Speedwell, TN 37870
- 222-40-30 Debbie Dixon, P.O. Box 378, Lynch, KY 40855
- 222-40-31 William Lee Scott, P.O. Box 157, Lynch, KY 40855
- 222-40-48 Kenneth Edward & Lenell Ely, P.O. Box 756, Lynch, KY 40855
- 222-40-49 Gwen Bullock Blair, 1317 Fairchild St., Cumberland, KY 40823
- 222-40-50 Robert Wayne Richardson, P.O. Box 67, Lynch, KY 40855
- 222-40-51 Warren F & Margaret M Gray, P.O. Box 92, Lynch, KY 40855
- 222-40-52 Freedom Center Ministries, Inc, P.O. Box 794, Lynch, KY 40855
- 222-40-53 Randy Joe & Janel Adams, P.O. Box 243, Lynch, KY 40855
- 222-40-78 Terry Glen Sr. Sundy, P.O. Box 148, Lynch, KY 40855
- 222-40-79 Samuel M & Dorothy Wilkerson, P.O. Box 631, Lynch, KY 40855
- 222-40-80 James D Wilkerson, 278 Livery St., Lynch, KY 40855
- 228-20-01 Harlan Cumberland Manor ASSOC, c/o Harland Bank 14125 Clayton Rd, Chesterfield, MO 63017
- 228-20-1.01 Julia Johnson, P.O. Box 235, Benham, KY 40807
- 228-20-02 Quata Belton, Jeff Belton & Cris Crosby, 6758 Carrbean Ln #8, Louisville, KY 40219
- 228-20-03 Frank & DeLores King, P.O. Box 325, Lynch, KY 40855
- 228-20-04 Kyle & Donna Thompson, P.O. Box 382, Lynch, KY 40855
- 228-20-05 Kyle & Donna Thompson, P.O. Box 382, Lynch, KY 40855
- 228-20-06 Matildan Cox, Box 911, Lynch, KY 40855
- 228-20-07 Larry Darnelle & Larry Chapman, P.O. Box 413, Lynch, KY 40855
- 228-20-09 Kyle & Donna Thompson, P.O. Box 382, Lynch, KY 40855
- 228-20-10 Kyle & Dona Hue Thompson, ETAL, P.O. Box 382, Lynch, KY 40855
- 228-20-10.1 Richard J Chapman & Dor Taylor, P.O. Box 382, Lynch, KY 40855
- 228-20-11 Lynch Methodist Church, P.O. Box 816, Lynch, KY 40855
- 228-20-12 Jimmy Frank Holland, P.O. Box 725, Lynch, KY 40855
- 228-20-13 David & Judy Henrey, P.O. Box 438, Lynch, KY 40855
- 228-20-14 Betty C Hudack, P.O. Box 328, Lynch, KY 40855
- 228-20-16 City of Lynch, E. Main St., Lynch, KY 40855
- 228-20-01-001 Hal Thomas Jr. & Tammy, Box 942 Lynch, KY 40855
- 228-20-01-002 Valerie Kalle Gilliam, 260 West Green dale, Corbin, Ky 40701
- 228-20-01-003 Donald & Elizabeth Allen, P.O. Box 338 Lynch, Ky 40855
- 228-20-01-004 Emery & Betty L Torbett, Box 314 Lynch, Ky 40855
- 228-20-01-005 Jerry & Bonnie Odell, c/o Fidelity National Tax Service, 468 N Rosemead Boulevard, Pasadena, CA 91107
- 228-20-01-007 Robert R Lunsford Et Al c/o Robert J Lunsford, P.O. Box 563, Harlan, KY 40831
- 228-20-07-001 Donaly Ray & Jackie Dawn Jones, 1620 Hwy 808, Eolia, KY 40828
- 228-20-07-002 Thomas Jr & Tammy Denise Woods, P.O. Box 942, Lynch, KY 40855
- 228-20-07-003 Johnny G. Deal, P.O. box 51 Benham, KY 40807
- 228-20-07-004 Mia Jo Marzilli, P.O. Box 35, Lynch, KY 40855
- 228-20-07-005 Clude H Sr & Anna S Johnson, P.O. Box 264 Lynch, KY 40855
- 228-20-08-001 City of Lynch, E main St, Lynch, KY 40855
- 228-20-08-002 Walter B & Betty L Mays, P.O. Box 345, Lynch, KY 40855
- 228-20-08-003 Danny R & Marsha Cuzzari, P.O. Box 65, Lynch, KY 40855
- 228-20-08-004 Howard Jr & Barbara J Powell, P.O. Box 923, Lynch, KY 40855
- 228-20-08-005 Brandon R & Ellaheba L Compton Creekside Rd, P.O. Box 732, Lynch, KY 40855
- 228-20-08-006 Bart L & Linda Gafna, P.O. Box 693, Lynch, KY 40855
- 228-20-09-001 Helen Halcomb, 12007 Hwy 522, Tatz, KY 40870
- 228-20-09-002 Helen Halcomb, 12007 Hwy 522, Cumberland, KY 40823
- 228-20-09-003 Earlene Mackey, P.O. Box 853, Lynch, KY 40855
- 228-20-09-004 Betty Sue Cornett, c/o Wendy Kimberley, 125 Ingram Crk, Line Fk 41833
- 228-20-09-005 Jeremy J & Glenda S Smith, P.O. Box 832, Lynch, KY 40855
- 228-20-09-007 Jeff & Debra Lynn Short, P.O. Box 39, Lynch, KY 40855
- 228-20-09-7.01 Jeff & Debra Short, P.O. Box 39, Lynch, Ky 40855
- 228-20-09-008 Delma Wynn Rinehart, P.O. Box 303, Lynch, KY 40855-0303
- 228-20-12-001 Norman Thompson, P.O. Box 401, Lynch, Ky 40855
- 228-20-12-003 Norman Thompson, P.O. Box 401, Lynch, KY 40855
- 228-20-12-004 Anna Stewart, P.O. 916, Lynch, KY 40855
- 228-20-12-005 Linda Stewart Cook, P.O. Box 16, Lynch, KY 40855
- 228-20-12-006 Josephine Williams, P.O. Box 291, Lynch, KY 40855
- 228-20-12-007 Kyle Thompson, P.O. Box 382, Lynch, KY 40855
- 228-20-12-008 Robert Hamilton Jr, P.O. Box 414, Lynch, KY 40855
- 228-20-12-009 Goode Temple A M E Zion Church, P.O. Box 295, Lynch, KY 40855
- 228-20-12-010 Charles Harvey & Marie Sweatt, P.O. Box 127, Lynch, KY 40855
- 228-20-13-001 Eric & Donna Gilliam, P.O. Box 698, Lynch, KY 40855
- 228-20-13-002 Bits & Pieces, 209 Beal St, Cumberland, KY 40823
- 228-20-13-003 Johnnie & Mazie Lee Jones, c/o Juanita Daniels, 1593 Opal Drive, Perris, CA 92571
- 228-20-13-004 Charlei Jr & Lorane Clark, P.O. Box 366, Lynch, KY 40855
- 228-20-13-005 Willie & Corean Owens, c/o Katherine Owens McCrewell, P.O. Box 50714 E Palo Alto CA 94303
- 228-20-13-006 Charles & Viola Turnboe, 2048 New Orleans Dr, Lexington, KY 40505-2526
- 228-20-13-007 Lena Margaret Crosby Jones, 5116 Rosette Blvd, Louisville, KY 40218
- 228-20-13-008 Melvin Jr & Deborah Hardy, P.O. Box 833, Lynch, KY 40855
- 228-20-13-009 Helen Halcomb, 12007 Hwy 522, Cumberland, KY 40823
- 228-20-13-010 Wilma Thomas, P.O. Box 1, Lynch, KY 40855
- 228-20-13-011 Virgie Jackson, P.O. Box 195, Lynch, KY 40855
- 228-20-13-012 Hosed & Ruth Dunson, P.O. Box 435, Lynch KY 40855
- 228-20-13-013 Alexander Mary Dunson Est. c/o Alexander Dunson Jr, 3390 Quaker Rd, Columbus, OH 43207
- 228-20-13-014 Mary Bell & Virgil Prinkleton, P.O. Box 9, Lynch, KY 40855
- 228-20-13-015 Arden & Mary B Prindleton, P.O. Box 9, Lynch, KY 40855
- 228-20-13-016 Helen Halcomb, 12007 Hwy 522, Cumberland, KY 40823
- 228-20-13-017 Joe & Claude Mae Carier Est., c/o Joan Det 2673 Woodcutter Ave, Columbus, OH 43224
- 228-20-13-018 Roger L Stewart, P.O. Box 915, Lynch, KY 40855
- 228-20-13-019 Commonwealth of KY Co of Harlan c/o Judge Exec, P.O. Box 956, Harlan 40831
- 228-20-13-020 William & Edna e Ellington, c/o William Ellington, 5308 Sykes Court, Dayton, OH 45424
- 228-20-13-022 Lincoln A & Hefttem Fielder, c/o Nathaniel Fielder, 4012 Naomi Dr, Louisville, KY 40219
- 228-20-13-023 Lincoln A & Hefttem Fielder, c/o Nathaniel Fielder, 4012 Naomi Dr, Louisville, KY 40219
- 228-20-14-012 Betty C Hudack, P.O. Box 328, Lynch, Ky 40855
- 228-20-14-013 Stanley & Sharon Sturgill, P.O. Box 776, Lynch, Ky 40855
- 228-20-14-014 Tommy Ray & Roger Greer & Carolyn Sue Pierce, 4450 Greens Meadow, Callahan, FL 32011
- 228-20-14-015 Jeanette Johnson, P.O. Box 844, Lynch, Ky 40855
- 228-20-14-016 Allen & Judy Murner, P.O. Box 88, Lynch, Ky 40855
- 228-20-14-017 Commercial Banking, P.O. Box 400, Harrogate, TN 37752
- 228-20-14-019 Jimmy Henery, P.O. Box 412, Lynch, KY 40855
- 228-20-14-020 Scott & Tracy Bailey, P.O. Box 415, Lynch, KY 40855
- 228-20-14-021 Scott & Tracy Bailey, P.O. Box 415, Lynch, KY 40855
- 228-20-14-022 Ray P & Lily Jenkins, 206 Blevins St., Cumberland, KY 40823
- 228-20-14-024 Nolan & Karina Hal Henson, c/o Mary With, 1585 Boardwalk Circle, Morristown, TN 37814-6490
- 228-20-14-025 James M & Beverly Webb, c/o Tony Messico, P.O. Box 400 Harrogate, TN 37752
- 228-20-14-027 Freddie A & Louise E Terry, P.O. Box 307, Cumberland, KY 40823
- 228-20-14-028 Helen Halcomb, c/o Bank of Harlan, P.O. Box 919, Harlan 40831
- 228-20-14-029 Sandra North Hansel, P.O. Box 307, Cumberland, KY 40823

BENHAM 7.5' QUADRANGLE

APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
PROPOSED TOWER SITE
 LYNCH, HARLAN CO OF KY



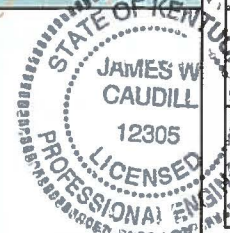
LEGEND

- POWER LINE
- PROPERTY LINE
- ACCESS ROAD
- CREEK
- CEMETERY
- TOWER

JW CAUDILL ENGINEERING
 9283 HWY 15, STE.C, ISOM, KY 41824

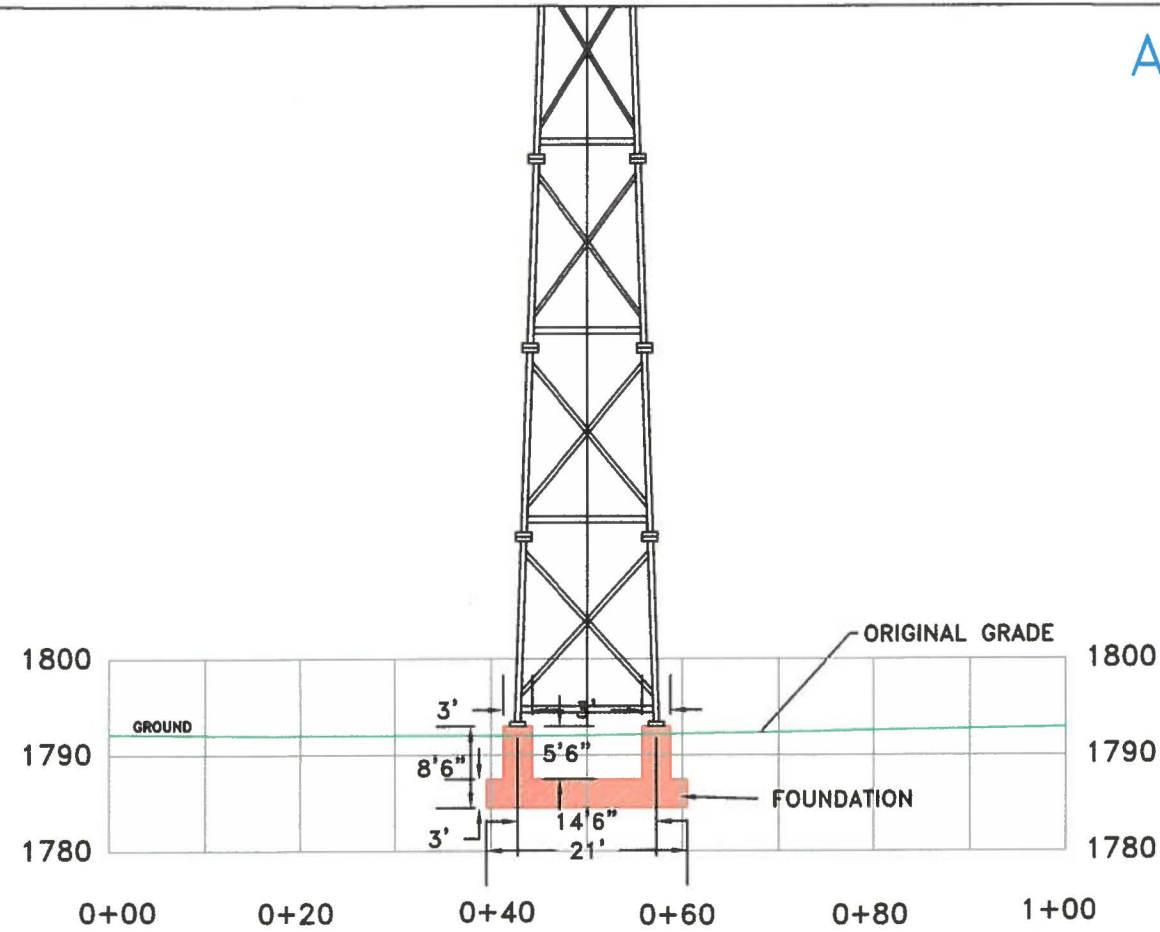
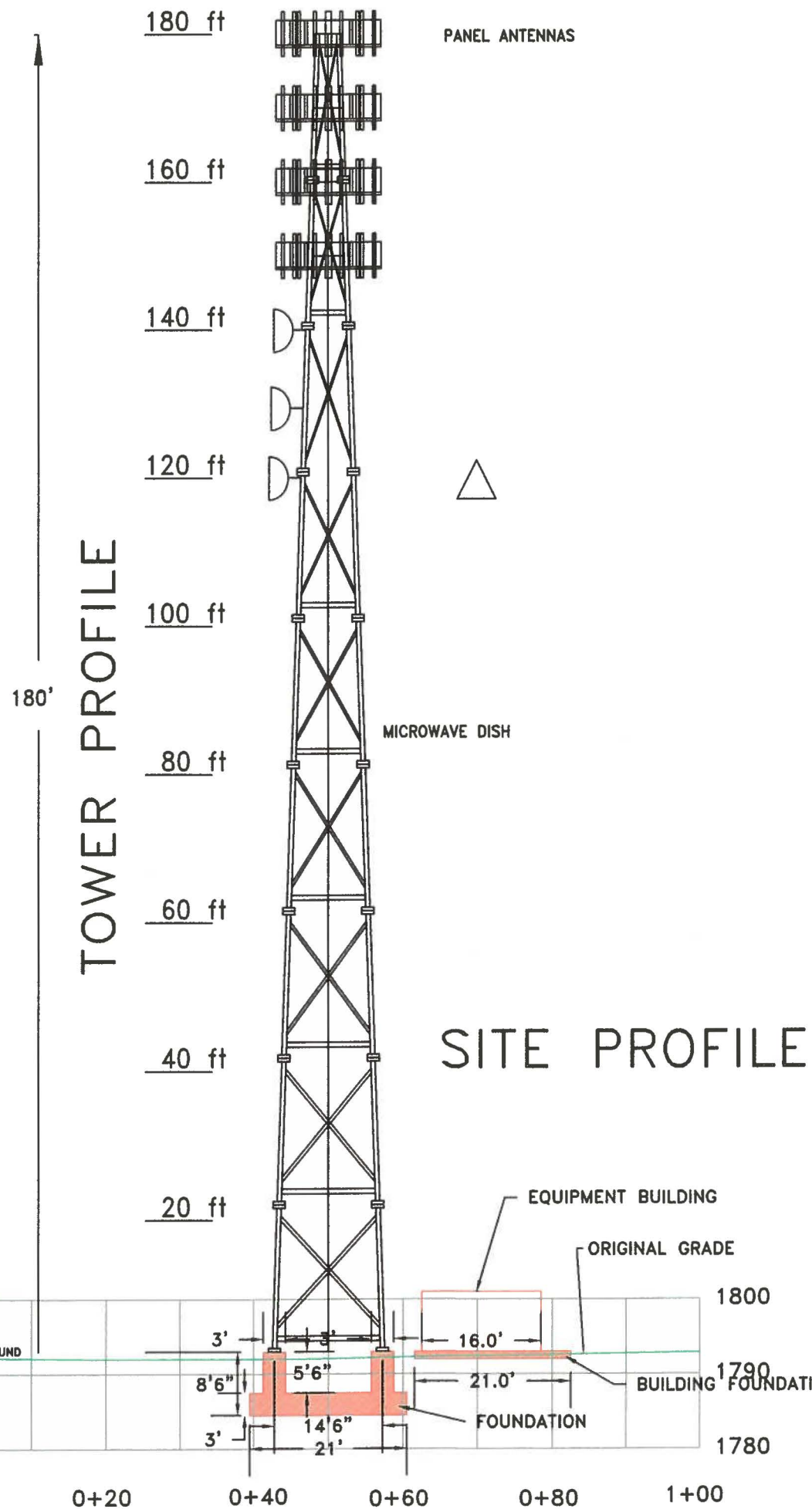
ENGINEER'S CERTIFICATE: I HEREBY CERTIFY THAT THE INFORMATION SHOWN REFLECTS THE INFORMATION OBTAINED AND PROVIDED BY THE HARLAN COUNTY PROPERTY VALUATION ADMINISTRATION OFFICE IN HARLAN.

James W. Caudill 12305 01-10-16
 JAMES W. CAUDILL P.E.# DATE



MAP SHOWING STRUCTURES & LAND OWNERS WITHIN 500 FT OF THE PROPOSED TOWER		
DRAWN JWC	DATE 01/10/16	LYNCH TOWER CITY OF LYNCH TRACT OFF HIGHWAY 160 IN HARLAN COUNTY KY
APPROVED	DATE	
SCALE 1" = 200'	SHEET 1 OF 3	PROJECT NO. LYNCH/LYNCHPVA200REV1

APPALACHIAN WIRELESS
 101 TECHNOLOGY TRAIL
 IVEL, KY. 41642
 PROPOSED TOWER SITE
 LYNCH IN HARLAN CO. KY.



SITE CROSS SECTION

NOTE: SEE FOUNDATION DRAWINGS FOR DETAILS

SITE PROFILE

1" = 20'
 01/10/16
 GRAPHIC SCALE



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

James W. Caudill 12305 01-10-16
 JAMES W. CAUDILL P.E. DATE

PROPOSED SITE PLAN AND STRUCTURE LOCATION PROPOSED LYNCH TOWER		
DRAWN JWC	DATE 01/10/16	LYNCH TOWER CITY OF LYNCH TRACT OFF HIGHWAY 160 IN HARLAN COUNTY
APPROVED	DATE	
SCALE 1" = 20'	SHEET 3 OF 3	PROJECT NO. LYNCH/LYNCHPROFILE