

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

**NOLAN**  
**CELLULAR TOWER**  
**APPLICATION**

**Martin County, Kentucky**  
**P.S.C. Case # 2010-00410**

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

MAR 08 2011

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. 2010-00410  
NECESSITY TO CONSTRUCT A TOWER IN MARTIN )  
COUNTY, KENTUCKY).

East Kentucky Network, LLC, d/b/a Appalachian Wireless, was granted authorization to provide Personal Communications Service (“PCS”) in the Lexington, KY Basic Trading Area (BTA474) 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.

In an effort to improve service in Martin 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 approximately 1500’ West of the Junction of 119 & Rt. 52 split, Turkey Creek, Martin County, Kentucky (37°45’45.42”N 82°18’57.63”W). A map and detailed directions to the site can be found in Exhibit 8.

Exhibit 2 is a list of all Property owners or residents according to the property valuation administrator’s record who reside or own property within 500 feet of the proposed tower in accordance with the Public Valuation Administrator. No other properties are contiguous with East Kentucky Network’s property.

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 reside or 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.

Martin County has no formal local planning unit. In absence of this unit the Martin 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 Mountain Citizen's March 9<sup>th</sup> & 16<sup>th</sup> editions. Enclosed is a copy of that notice in Exhibit 3. The Mountain Citizen is the newspaper with the largest circulation in Martin County.

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

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

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

The FAA application and the Kentucky Airport Zoning Commission's confirmation that a permit is not required are both 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 March 1, 2011 and will remain posted for at least two weeks after filing of this application as specified.

Enclosed in Exhibit 9 is a copy of East Kentucky Network LLC's deed to the site.

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

Due to the steep hillside surrounding the proposed site, the property in close proximity is unsuitable for any type of development. East Kentucky Network LLC's operation will not affect the use of nearby land nor its value. No more suitable site exists in the area. A copy of the search area map is enclosed in Exhibit 8. 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.

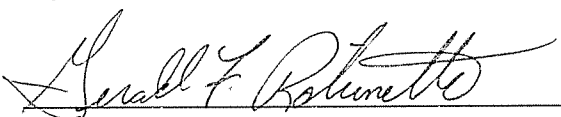
Enclosed, and filed as Exhibit 10 is a survey of the proposed tower site signed by a Kentucky registered professional engineer.

Exhibit 12 contains a vertical sketch of the tower supplied by Coleman Engineering.

**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 Lynn Haney of East Kentucky Network, LLC d/b/a Appalachian Wireless. All related questions or correspondence concerning this filing should be mailed to the attention of Gerald Robinette at East Kentucky Network, LLC d/b/a/ Appalachian Wireless, 101 Technology Trail, Ivel, KY 41642.

SUBMITTED BY:  DATE: 3/7/11  
Lynn Haney, Compliance Coordinator

APPROVED BY:  DATE: 3-7-11  
Gerald Robinette, General Manager

**CONTACT INFORMATION:**

**Gerald Robinette, General Manager**  
**Phone: (606) 791-2375, Ext. 110**  
**Email: grobinette110@ekn.com**

**Lynn Haney, Compliance Coordinator**  
**Phone: (606) 791-2375, Ext. 1007**  
**Email: lhaney@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 Application & Kentucky Airport Zoning Commission Confirmation that a Permit is not required
7	Audited Financial Statements
8	Driving Directions from County Court House and Map to Suitable Scale
9	Deed for Proposed Site
10	Survey of Site Signed/Sealed by Professional Engineer Registered in State of Kentucky
11	Site Survey Map with Property Owners identified in Accordance with PVA of County
12	Vertical Profile Sketch of Proposed Tower

ULS License

**PCS Broadband License - WPOK570 - East Kentucky Network, LLC**

Call Sign	WPOK570	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

**Market**

Market	BTA474 - Williamson, WV-Pikeville, KY	Channel Block	C
Submarket	0	Associated Frequencies (MHz)	001895.00000000-001910.00000000-001975.00000000-001990.00000000

**Dates**

Grant	09/17/2009	Expiration	09/29/2019
Effective	11/11/2009	Cancellation	

**Buildout Deadlines**

1st	09/29/2004	2nd	09/29/2009
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**Notification Dates**

1st	09/29/2004	2nd	09/10/2009
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**Licensee**

FRN	0001786607	Type	Limited Liability Company
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**Licensee**

East Kentucky Network, LLC 101 Technology Trail Ivel, KY 41642 ATTN Gerald Robinette	P:(606)791-9090 E:grobinette@ekn.com
---	---

**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



EAST KENTUCKY NETWORK  
101 TECHNOLOGY TRAIL  
IVEL, KY 41642  
PHONE: (606) 874-7550  
{ '606) 874-7551  
: INFO@EKN.COM  
WEBSITE: WWW.EKN.COM



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

March 3, 2011

Margaret Preece  
11191 Riverfront Road  
Turkey Creek, KY 41570

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

East Kentucky Network, LLC d/b/a Appalachian Wireless is applying 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 Martin 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 approximately 1500' West of the Junction of 119 & Rt. 52 split, Turkey Creek, Martin 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 or reside within a 500' radius of the proposed tower or within a 200' radius of the proposed or existing access road.

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. 2010-00410 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 606-791-2375, Ext. 1007.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Haney".

Lynn Haney  
Compliance Coordinator

Enclosure 1

EAST KENTUCKY NETWORK  
101 TECHNOLOGY TRAIL  
IVEL, KY 41642  
PHONE: (606) 874-7550  
(606) 874-7551  
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WEBSITE: WWW.EKN.COM



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

March 3, 2011

Jimmy & Dixie Bentley  
HC 61 Box 1160  
Turkey Creek, KY 41570

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

East Kentucky Network, LLC d/b/a Appalachian Wireless is applying 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 Martin 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 approximately 1500' West of the Junction of 119 & Rt. 52 split, Turkey Creek, Martin 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 or reside within a 500' radius of the proposed tower or within a 200' radius of the proposed or existing access road.

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Sincerely,

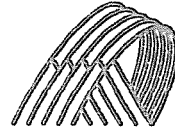
A handwritten signature in cursive script that reads "Lynn Haney".

Lynn Haney  
Compliance Coordinator

Enclosure 1

EAST KENTUCKY NETWORK  
101 TECHNOLOGY TRAIL  
IVEL, KY 41642  
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WEBSITE: WWW.EKN.COM

EAST KENTUCKY  
NETWORK



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

March 3, 2011

Dixie Gillman  
HC 61 Box 1160  
Turkey Creek, KY 41570

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

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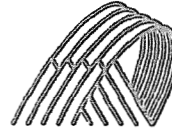
Sincerely,

Lynn Haney  
Compliance Coordinator

Enclosure 1

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EAST KENTUCKY  
NETWORK



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

March 3, 2011

William & Crystal Bowen  
P.O. Box 721  
Warfield, KY 41267

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

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Sincerely,

Lynn Haney  
Compliance Coordinator

Enclosure 1

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IVEL, KY 41642  
PHONE: (606) 874-7550  
( 506) 874-7551  
L : INFO@EKN.COM  
WEBSITE: WWW.EKN.COM



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

March 3, 2011

Jarry Maynard  
HC 61 Box 1045  
Turkey Creek, KY 41570

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

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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 606-791-2375, Ext. 1007.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Haney".

Lynn Haney  
Compliance Coordinator

Enclosure 1

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101 TECHNOLOGY TRAIL  
IVEL, KY 41642  
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WEBSITE: WWW.EKN.COM



VIA: U.S. CERTIFIED MAIL

PUBLIC NOTICE

March 3, 2011

Wilma Sue Jarvis  
Route 1 Box 82  
Williamson, WV 25661

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

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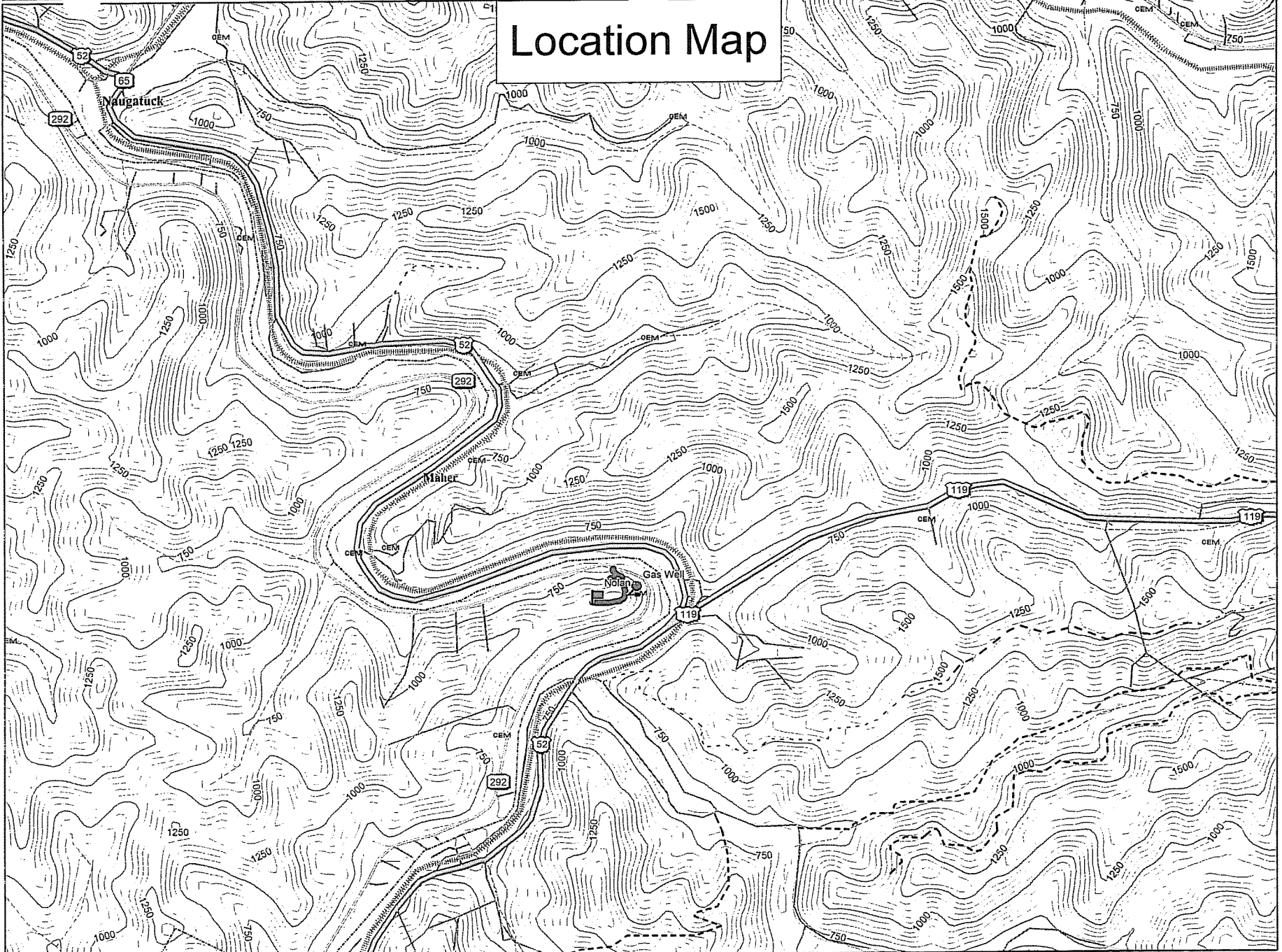
A handwritten signature in cursive script that reads "Lynn Haney".

Lynn Haney  
Compliance Coordinator

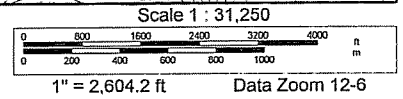
Enclosure 1



# Location Map

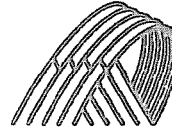


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.: INFO@EKN.COM  
..SITE: WWW.EKN.COM

EAST KENTUCKY  
NETWORK



VIA: U.S. CERTIFIED MAIL

March 4, 2011

Kelly Callaham, Judge Executive  
Martin County Courthouse  
P.O. Box 309  
Inez, KY 41224

RE: Public Notice-Public Service Commission of Kentucky (Case No. 2010-00410)

East Kentucky Network, LLC d/b/a Appalachian Wireless is applying 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 Martin 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 approximately 1500' West of the Junction of 119 & Rt. 52 split, Turkey Creek, Martin 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 Martin 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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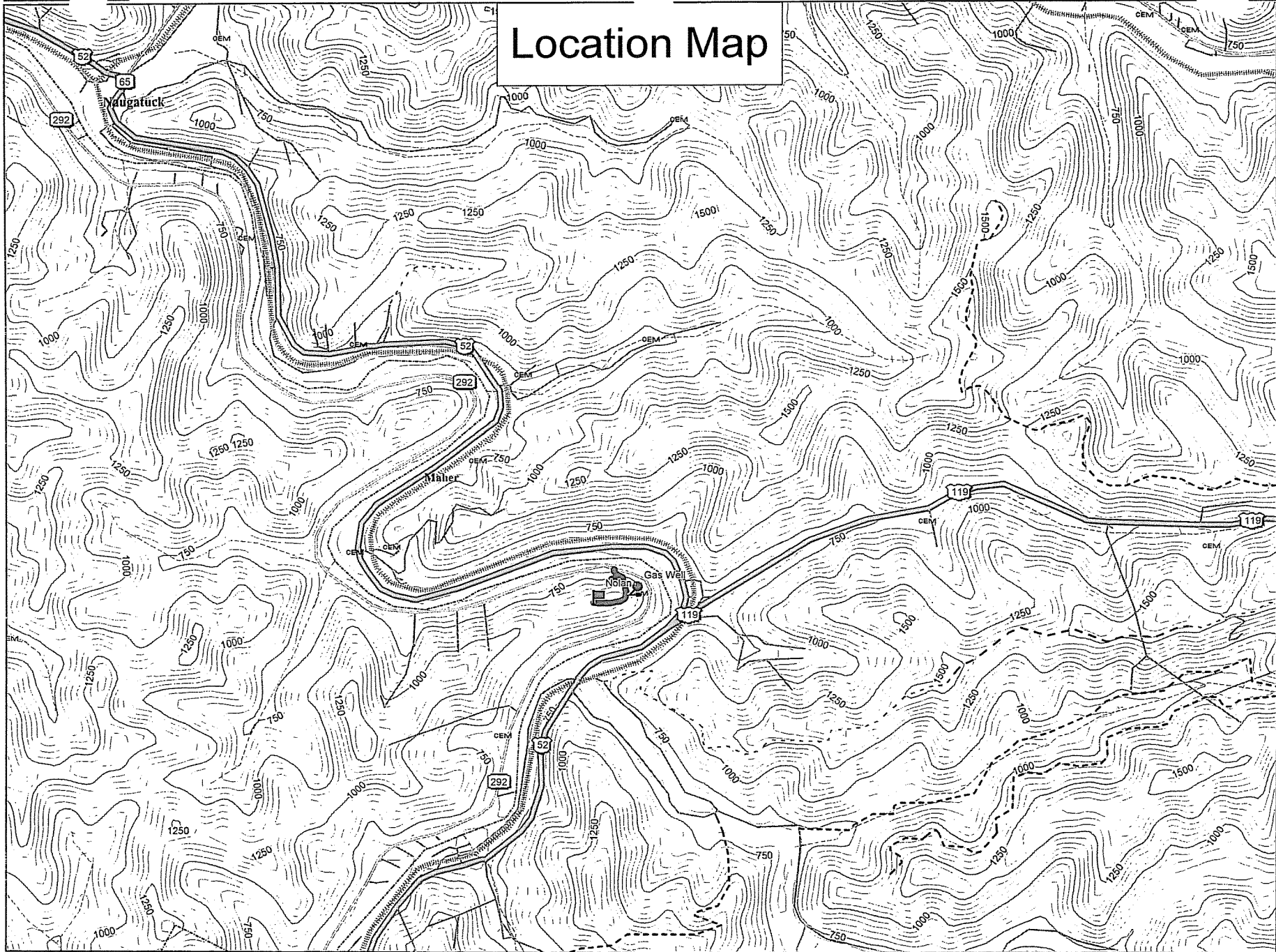
A handwritten signature in cursive script that reads "Lynn Haney". The signature is written in black ink and is positioned above the printed name and title.

Lynn Haney  
Compliance Coordinator

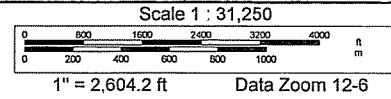
Enclosure



# Location Map



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 www.delorme.com



dba Appalachian Wireless  
101 Technology Trail  
Ivel, KY 41642  
Phone: 606-874-7550  
Fax: 606-791-2225

EAST KENTUCKY  
NETWORK



# FAX

**To:** The Mountain Citizen  
Attn: David

**From:** Lynn Haney  
Compliance Coordinator

**Fax:** 606-298-3711

**Date:** March 4, 2011

**Re:** PUBLIC NOTICE ADVERTISEMENT

**Pages:** 1

**Please place the following Public Notice Advertisement in The Mountain Citizen to be ran for 2 weeks.**

**PUBLIC NOTICE:**

RE: Public Service Commission of Kentucky (CASE NO. 2010-00410)

Public Notice is hereby given that East Kentucky Network, LLC, dba Appalachian Wireless is applying to the Kentucky Public Service Commission to construct a cellular telecommunications tower on a tract of land approximately 1500' West of the Junction of 119 & Rt. 52 split, Turkey Creek, Martin 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. 2010-00410.

If you have any questions about the placement of the above mentioned notice, please call me at 606-791-2375, ext. 1007.

Thank you,

Lynn Haney  
Compliance Coordinator

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.

\* \* \* Communication Result Report ( Mar. 4. 2011 11:46AM ) \* \* \*

1) Ekn  
2)

Date/Time: Mar. 4. 2011 11:45AM

File No. Mode	Destination	Pg(s)	Result	Page Not Sent
1802 Memory TX	2983711	P. 1	OK	

Reason for error  
 E. 1) Hang up or line fail  
 E. 2) Busy  
 E. 3) No answer  
 E. 4) No facsimile connection  
 E. 5) Exceeded max. E-mail size

dba Appalachian Wireless  
 101 Technology Trail  
 Ivel, KY 41042  
 Phone: 606-874-7550  
 Fax: 606-701-2225



# FAX

**To:** The Mountain Citizen  
 Attn: David  
**From:** Lynn Haney  
 Compliance Coordinator  
**Fax:** 606-298-3711  
**Date:** March 4, 2011  
**Re:** PUBLIC NOTICE ADVERTISEMENT  
**Pages:** 1

Please place the following Public Notice Advertisement in The Mountain Citizen to be ran for 2 weeks.

**PUBLIC NOTICE:**  
 RE: Public Service Commission of Kentucky (CASE NO. 2010-00410)  
 Public Notice is hereby given that East Kentucky Network, LLC, dba Appalachian Wireless is applying to the Kentucky Public Service Commission to construct a cellular telecommunications tower on a tract of land approximately 1500' West of the Junction of 118 & Rt. 52 split, Turkey Creek, Martin 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 815, Frankfort, Kentucky 40602. Please refer to Case No. 2010-00410.

If you have any questions about the placement of the above mentioned notice, please call me at 606-791-2375, ext. 1007.

Thank you,  
 Lynn Haney  
 Compliance Coordinator

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# WENDELL R. HOLMES, P.G.

424 Pear Street  
Hazard, KY 41701

October 29, 2010

Nolan Tower Site

Purpose:

A site assessment was conducted for Appalachian Wireless on a tract of land located in Martin County, Kentucky near Nolan, West Virginia. The site of the proposed tower is now forestland. The purpose of this investigation was to determine the depth to bedrock and of what type of rock the bedrock consists.

Site Investigation:

The trenching method was used to determine the type of bedrock material at the proposed tower site. A Caterpillar excavator was used to expose the bedrock material. It is approximately 7.00 feet to the sandy shale bedrock. (See attached page for descriptions of materials encountered.)

The terrain in Martin County is moderately to very steep. The tower site is located on a point just west of the Tug Fork of the Big Sandy River, approximately one half mile north of Nolan, West Virginia in Martin County, Kentucky. The sandy shale formation below the tower site is approximately 10.00 feet thick based on the information obtained from the site investigation and geological maps of the area.

Conclusions:

The proposed tower site is located on top of a point in the area. The sandy shale bedrock on the proposed tower site is part of the Breathitt Formation, and is middle to lower Pennsylvanian in age. Tests were not conducted to determine the load-bearing strength of the bedrock. However, it is apparent that the tower will be constructed on the sandy shale bedrock formation.

The field work for this site was performed by Wendell R. Holmes, using generally accepted methods in the practice of geological science.

Wendell R. Holmes, P.G.



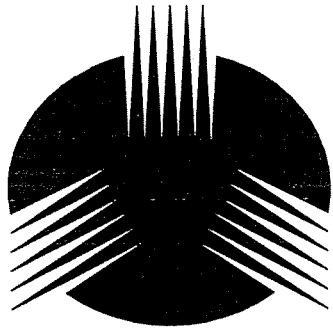
**WENDELL R. HOLMES, P.G.**

**424 Pear Street  
Hazard, Ky. 41701  
(606)438-7250**

**Geologist Log**

Location: Nolan Tower Site

<b>Unit Thickness</b>	<b>Total depth</b>	<b>Strata</b>	<b>Description</b>
7.00'	7.00'	Soil	Brown with shale & plant fragments
10.00' +	17.00' +	Sandy Shale	Weathered, Yellowish Brown and Gray



# WORLD TOWER COMPANY, INC.

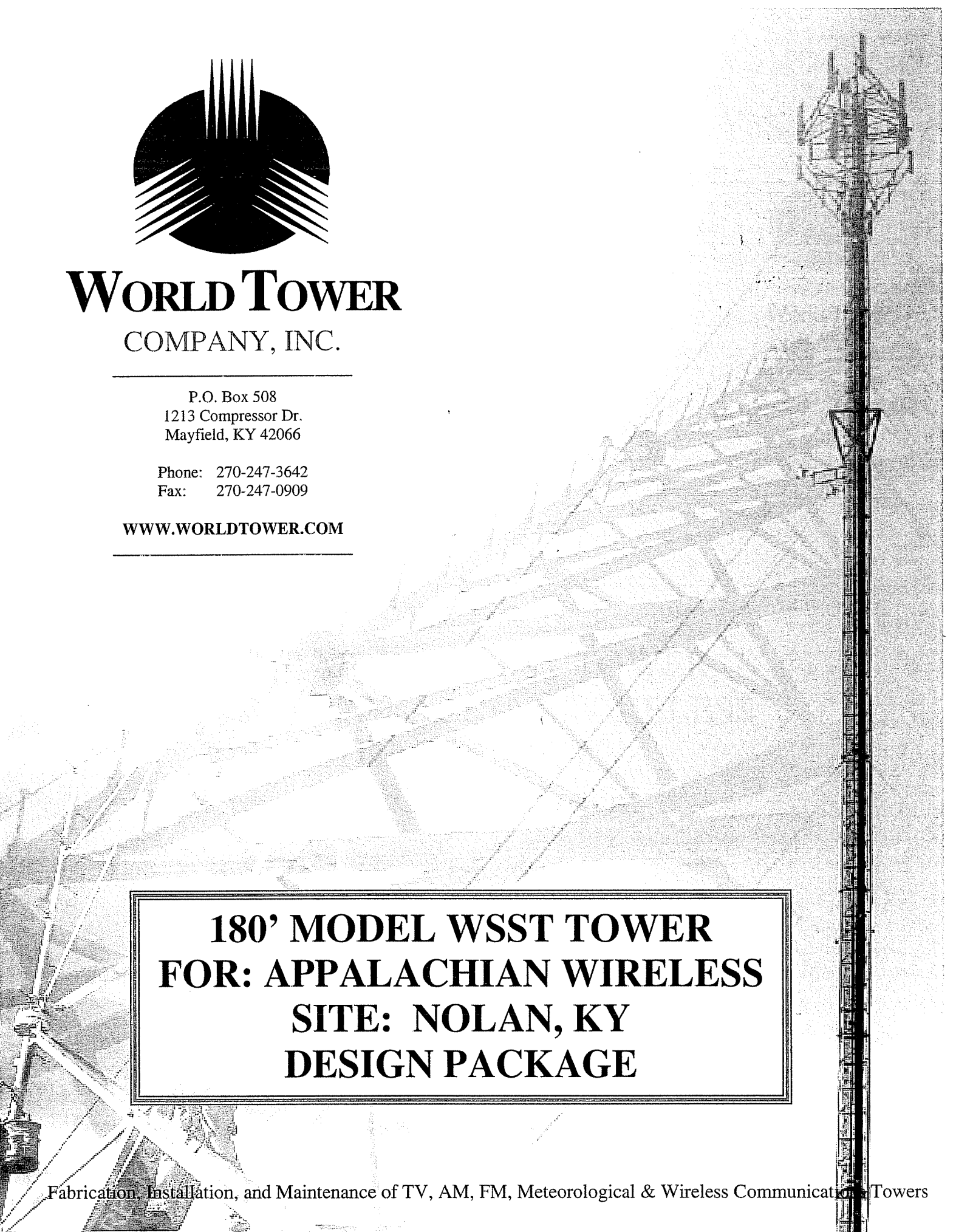
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P.O. Box 508  
1213 Compressor Dr.  
Mayfield, KY 42066

Phone: 270-247-3642  
Fax: 270-247-0909

[WWW.WORLDTOWER.COM](http://WWW.WORLDTOWER.COM)

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**180' MODEL WSST TOWER  
FOR: APPALACHIAN WIRELESS  
SITE: NOLAN, KY  
DESIGN PACKAGE**

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



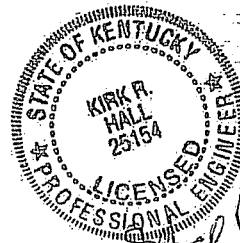
World Tower  
COMPANY, INC.

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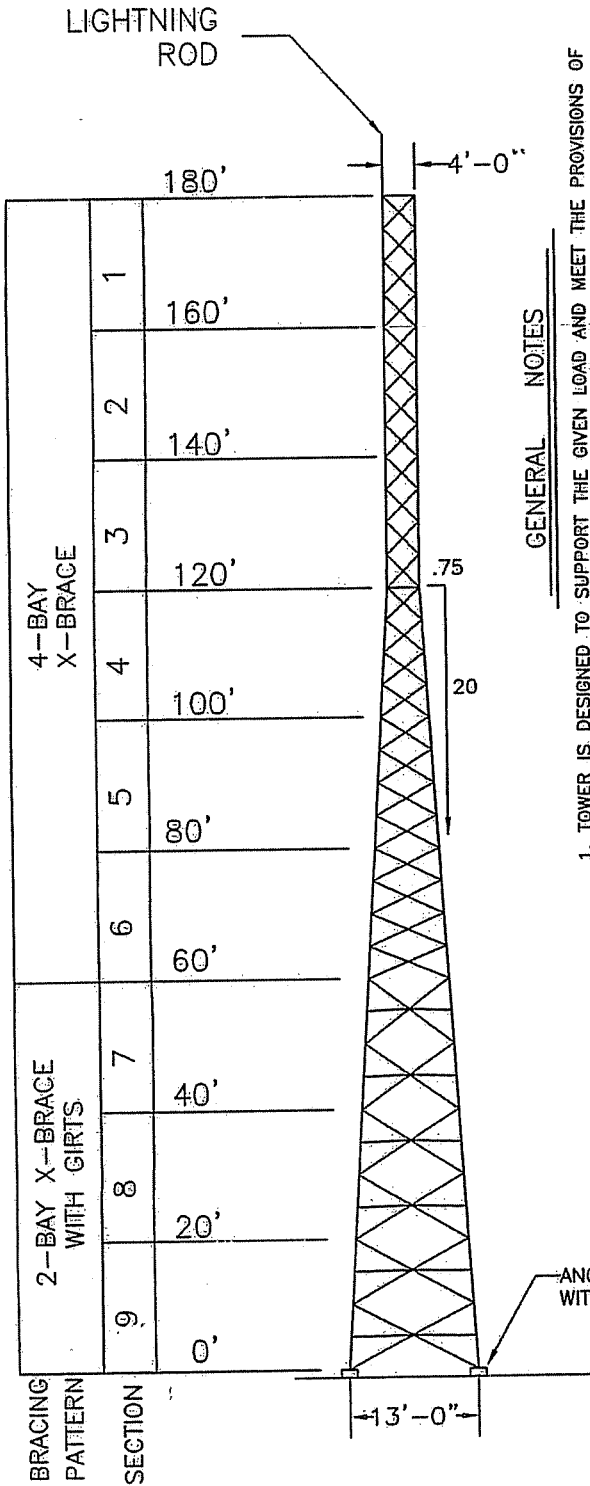
1213 Compressor Drive  
P.O. Box 508  
Mayfield, KY 42066  
270-247-3642  
FAX: 270-247-0909  
E-mail: [worldtower@worldtower.com](mailto:worldtower@worldtower.com)  
Web: [www.worldtower.com](http://www.worldtower.com)

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180' MODEL WSST TOWER  
FOR: APPALACHIAN WIRELESS  
SITE: NOLAN, KY  
DESIGN PACKAGE



*Kirk R. Hall*  
11-8-10

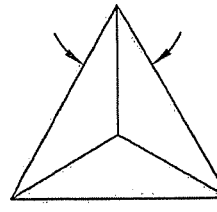


TOWER ELEVATION

GENERAL NOTES

1. TOWER IS DESIGNED TO SUPPORT THE GIVEN LOAD AND MEET THE PROVISIONS OF ITA/EIA-222-F FOR A 70 MPH BASIC WIND SPEED WITH NO ICE OR 60:62 MPH WITH 1/2" ICE.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY, AWS, D. 1.1.
3. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
4. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
5. LEG STEEL IS 50 KSI MIN YIELD, SOLID ROUND AND BRACING STEEL IS 36 KSI MIN YIELD, SOLID ROUND OR STRUCTURAL ANGLE.
6. ALL STRUCTURAL BOLTS ARE ASTM A325.
7. TOWER IS DESIGNED FOR ALL LINES TO BE MOUNTED IN ACCORDANCE WITH DRAWING NO. Q101049WG.
8. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH ITA/EIA-222-F EVERY 5 YEARS.
9. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.
10. STEP BOLTS PROVIDED ON ONE LEG FOR FULL HEIGHT OF TOWER.
11. CABLE SAFETY PROVIDED FOR FULL TOWER HEIGHT.

60' TYP.



TOWER PLAN

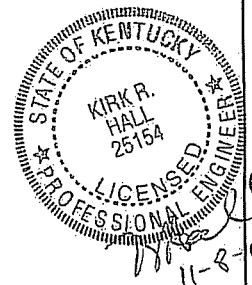
BASE REACTIONS

OTM:	1702.0 FT. KIPS
COMP.	166.0 KIPS
UPLIFT	135.0 KIPS
SHEAR (3 LEGS)	15.0 KIPS
WT. (NO ICE)	27.0 KIPS
WT. (1/2" ICE)	51.0 KIPS

**WORLD TOWER**

TITLE: 180' MODEL WSST TOWER  
FOR: APPALACHIAN WIRELESS  
SITE: NOLAN, KY

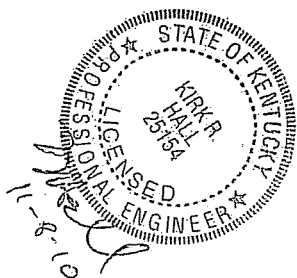
SCALE: NONE!	DRN: LKB	CHKD:	DATE: 11-8-10
FILE:		DWG. NO. Q101049	



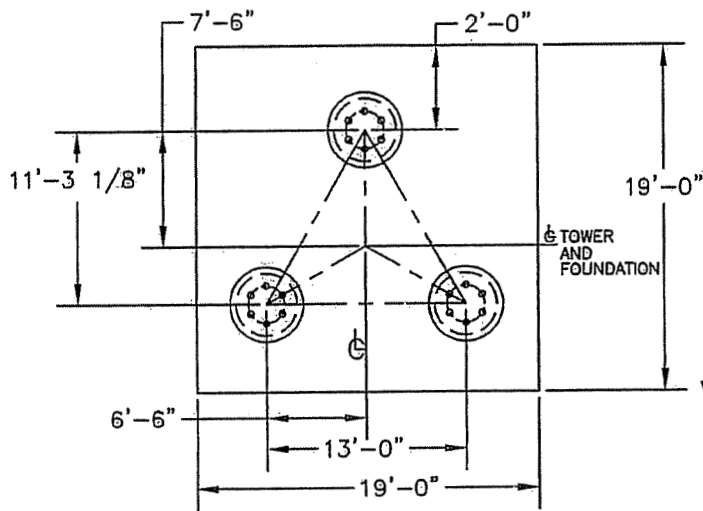


SECTION NO.	LEGS	DIAGONALS	GIRTS	SPLICE BOLTS	DIAG BOLTS	GIRT BOLTS
1	1 3/4	1 3/4 X 1/8	1 3/4 X 1/8	4-3/4"	1/2	1/2
2	2 1/4	2 X 1/8	N/A			N/A
3	2 1/2	2 X 1/8		4-1"		
4	2 3/4	1 3/4 X 1/8	1 3/4 X 1/8			1/2
5	2 3/4	1 3/4 X 1/8	N/A			N/A
6	2 3/4	1 3/4 X 1/8				
7	3	2 1/2 X 3/16	2 X 1/8		5/8	5/8
8	3	2 1/2 X 3/16	2 X 3/16			
9	3	2 1/2 X 3/16	2 1/2 X 3/16	4-1" A-BOLTS		

ANTENNA LOADING		
ELEV.	DESCRIPTION	LINE
180'	(6)- PANEL ANTENNAS (6'X1'X6") ON WD13X53 SECTOR MOUNT	6- 1 5/8"
165'	(6)- PANEL ANTENNAS (6'X1'X6") ON WD13X53 SECTOR MOUNT	6- 1 5/8"
150'	(6)- PANEL ANTENNAS (6'X1'X6") ON WD13X53 SECTOR MOUNT	6- 1 5/8"
135'	(2) 4' STANDARD DISHES	2- 1 5/8"

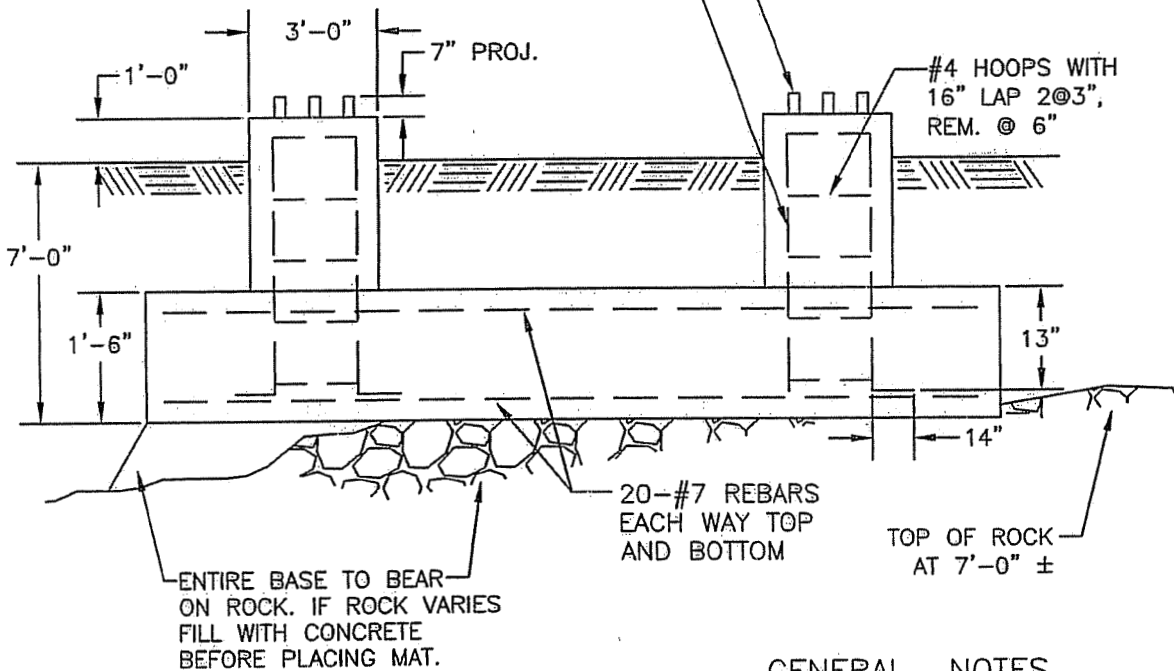


WORLD TOWER			
TITLE: 180' MODEL WSST TOWER FOR: APPALACHIAN WIRELESS SITE: NOLAN, KY			
SCALE: NONE	DWN. LKB	CHKD:	DATE 11-8-10
FILE	DWG. NO. Q101049T		



25.2 CU. YDS.  
CONCRETE REQ'D.

BASE REACTIONS	
OTM:	1702.0 FT. KIPS
COMP.	166.0 KIPS
UPLIFT	135.0 KIPS
SHEAR (3 LEGS)	15.0 KIPS
WT. (NO ICE)	27.0 KIPS
WT. (1/2" ICE)	51.0 KIPS



**GENERAL NOTES**

1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCEMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM WENDELL R. HOLMES, P.G. DATED OCTOBER 29, 2010.

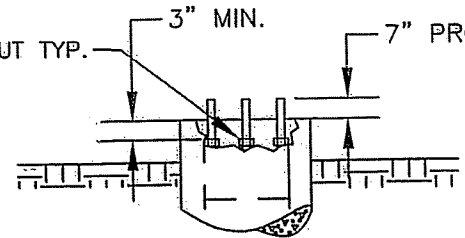


TITLE: FOUNDATION DETAIL  
180' WSST TOWER  
FOR: APPALACHIAN WIRELESS  
SITE: NOLAN, KY

**WORLD TOWER**

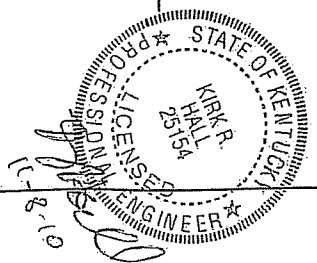
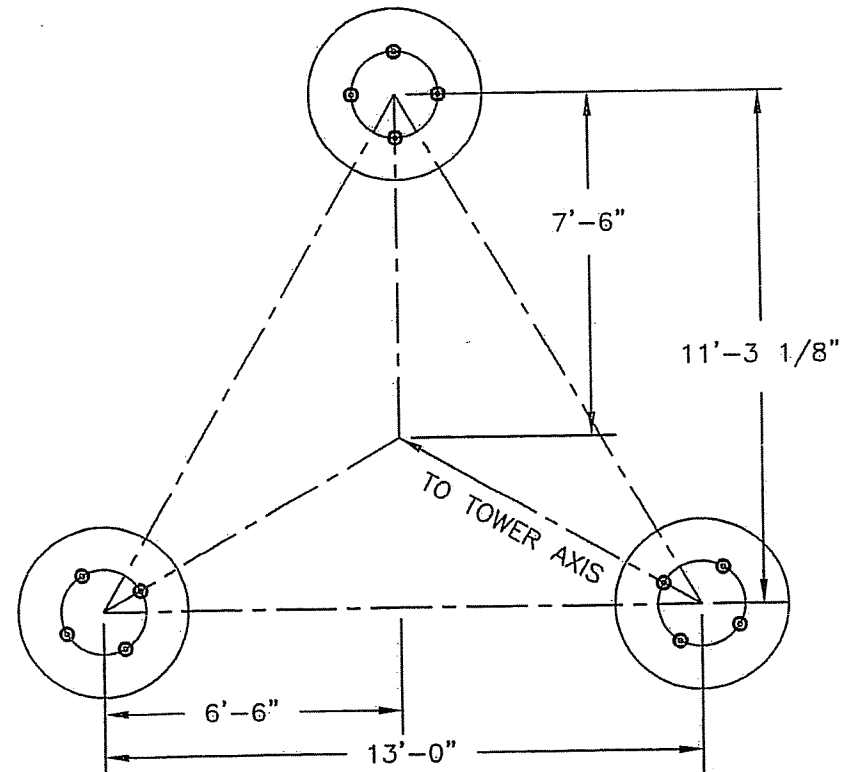
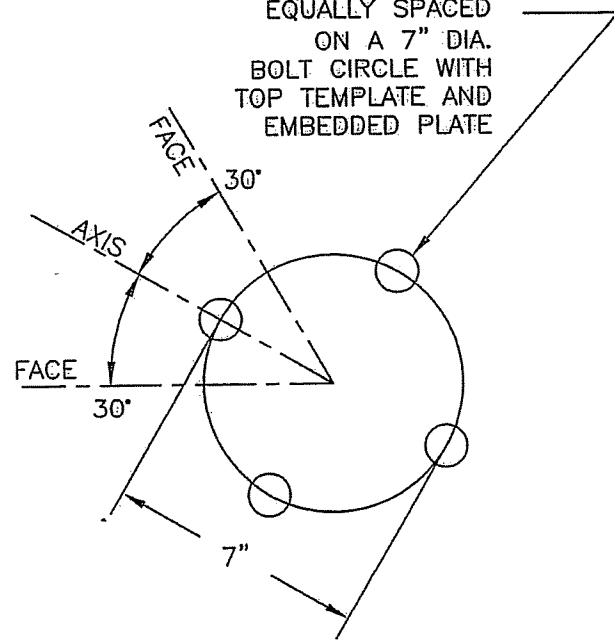
SCALE NONE DWN. LKB CKD. DATE 11-8-10  
FILE DWG. NO. Q101049F

GALVANIZED NUT TYP. 3" MIN. 7" PROJ.



PIER ELEVATION

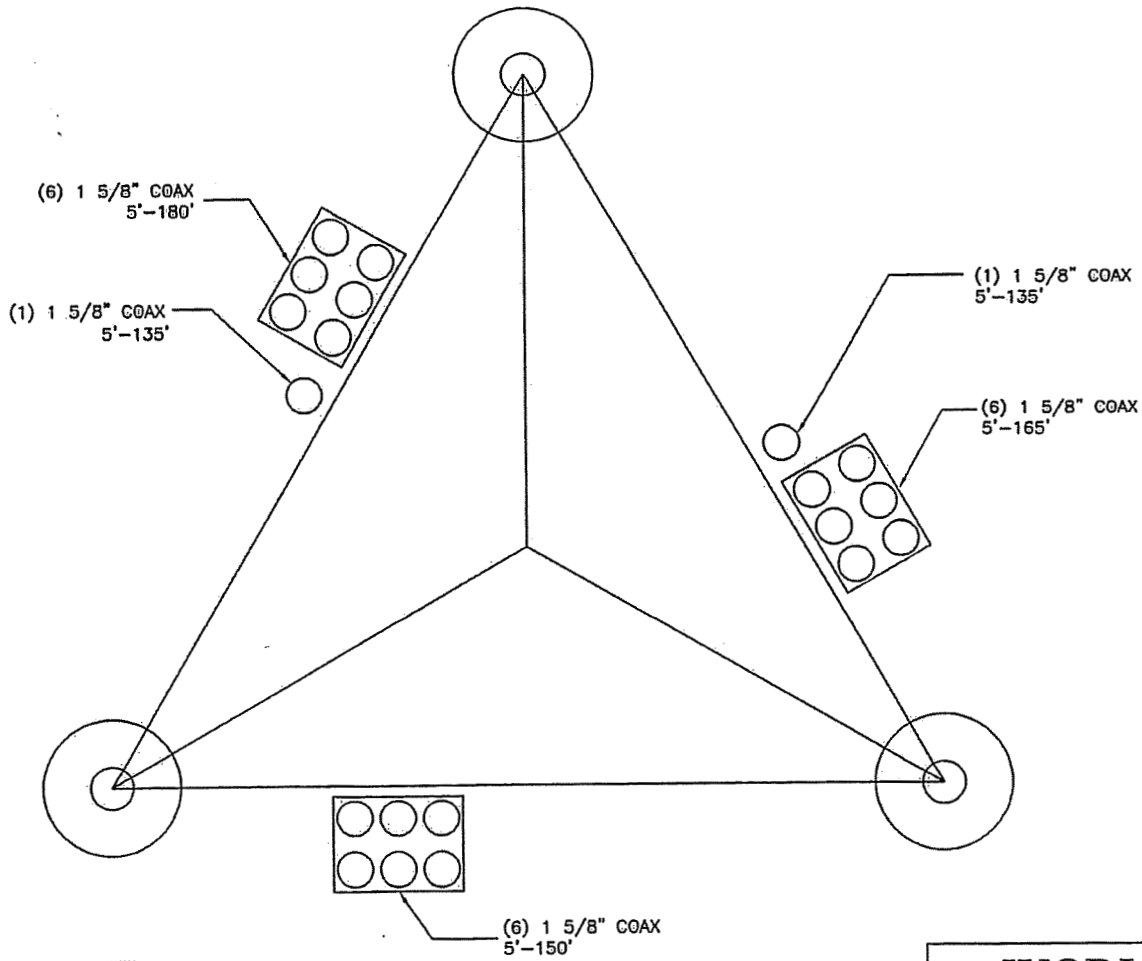
ANCHOR BOLTS  
 (4) 1" X 85" ASTM A449  
 EQUALLY SPACED  
 ON A 7" DIA.  
 BOLT CIRCLE WITH  
 TOP TEMPLATE AND  
 EMBEDDED PLATE



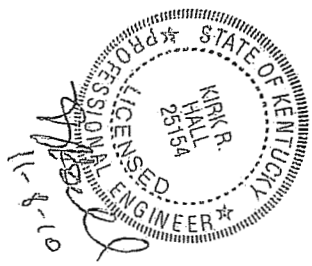
TITLE: ANCHOR BOLT LAYOUT  
 180' WSST TOWER  
 FOR: APPALACHIAN WIRELESS  
 SITE: NOLAN, KY

# WORLD TOWER

SCALE	NONE	DWN.	LKB	CKD.	DATE	11-8-10
FILE		DWG. NO.	Q101049AB			

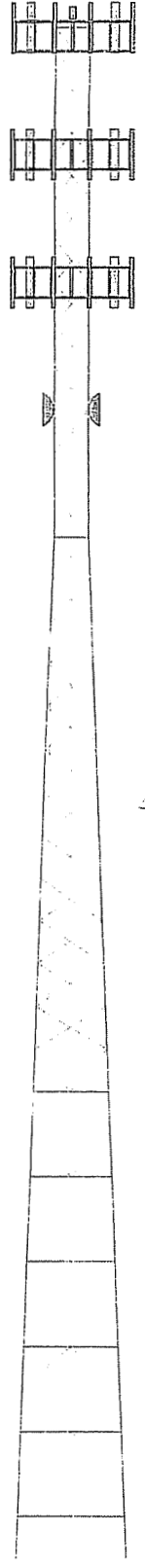


PLAN VIEW



<b>WORLD TOWER</b>			
TITLE: 180' MODEL WSST TOWER FOR: APPALACHIAN WIRELESS SITE: NOLAN, KY			
SCALE NONE	DWN. LKB	CKD.	DATE 11-8-10
FILE	DWG. NO. Q101049WG		

Section	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
Legs	SR 3	SR 3	SR 3	SR 2 3/4	SR 2 3/4	SR 2 1/2	SR 2 1/4	SR 1 3/4							
Leg Grade				A572-50											
Diagonals	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L2x2x1/8	L2x2x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8	L1 3/4x1 3/4x1/8
Top Girts				A36											
Horizontal	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	L2 1/2x2 1/2x3/16	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8	L2x2x1/8
Face Width (ft)	11.5	10	8.5	7	5.5										
# Panels @ (ft)	13	10	7	5	3	2	1	1	1	1	1	1	1	1	1
Weight (K)	15.0	25	24	18	17	14	12	9							



**DESIGNED APPURTENANCE LOADING**

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting	180	WD13X53 Antenna Mounting Frame	165
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	180	WD13X53 Antenna Mounting Frame	165
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	180	(2) Panel 6' x 1' x 6" w/ mnt. pipe*	150
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	180	(2) Panel 6' x 1' x 6" w/ mnt. pipe*	150
WD13X53 Antenna Mounting Frame	180 - 178	(2) Panel 6' x 1' x 6" w/ mnt. pipe*	150
WD13X53 Antenna Mounting Frame	180 - 178	WD13X53 Antenna Mounting Frame	150
WD13X53 Antenna Mounting Frame	180 - 178	WD13X53 Antenna Mounting Frame	150
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	165	WD13X53 Antenna Mounting Frame	150
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	165	4 FT DISH	135
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	165	4 FT DISH	135
WD13X53 Antenna Mounting Frame	165		

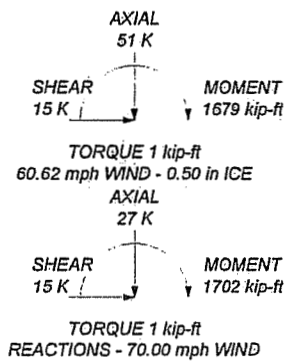
**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

**TOWER DESIGN NOTES**

1. Tower designed for a 70.00 mph basic wind in accordance with the TIA/EIA-222-F Standard.
2. Tower is also designed for a 60.62 mph basic wind with 0.50 in ice.
3. Deflections are based upon a 50.00 mph wind.
4. Coax stacked and distributed to 3 tower faces - 4 maximum exposed to wind
5. TOWER RATING: 95.7%

MAX. CORNER REACTIONS AT BASE:  
 DOWN: 166 K  
 UPLIFT: -135 K  
 SHEAR: 10 K



<b>World Tower Company</b>	Job: 180' Model WSST / Job Q10-1049 or 1050
1213 Compressor Drive	Project: West Williamson or Nolan, KY
Mayfield, Kentucky 42066	Client: Appalachian Wireless / Drawn by: Kirk Hall / App'd:
Phone: (270) 247-3642	Code: TIA/EIA-222-F / Date: 11/03/10 / Scale: NTS
FAX: (270) 247-0909	Path: C:\Tower\SE Run\21010\Q10-1049 and 1050\appetchn\Q10-1049A.1050.plt / Dwg No: E-1

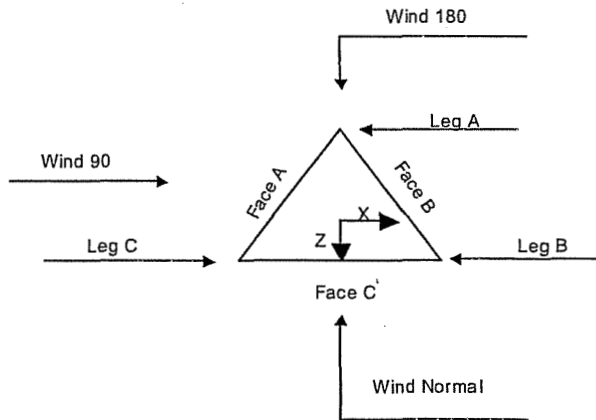
<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	<b>Job</b> 180' Model WSST / Job Q10-1049 or 1050	<b>Page</b> 1 of 1
	<b>Project</b> West Williamson or Nolan, KY	<b>Date</b> 14:40:20 11/03/10
	<b>Client</b> Appalachian Wireless	<b>Designed by</b> Kirk Hall

## Tower Input Data

The main tower is a 3x free standing tower with an overall height of 180.00 ft above the ground line.  
 The base of the tower is set at an elevation of 0.00 ft above the ground line.  
 The face width of the tower is 4.00 ft at the top and 13.00 ft at the base.  
 This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

- Basic wind speed of 70.00 mph.
- Nominal ice thickness of 0.50 in.
- Ice density of 56 pcf.
- A wind speed of 60.62 mph is used in combination with ice.
- Temperature drop of 30 °F.
- Deflections calculated using a wind speed of 50.00 mph.
- Coax stacked and distributed to 3 tower faces - 4 maximum exposed to wind.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333.



Triangular Tower

## Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	180.00-160.00			4.00	1	20.00
T2	160.00-140.00			4.00	1	20.00
T3	140.00-120.00			4.00	1	20.00
T4	120.00-100.00			4.00	1	20.00

<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	<b>Job</b> 180' Model WSST / Job Q10-1049 or 1050	<b>Page</b> 2 of 2
	<b>Project</b> West Williamson or Nolan, KY	<b>Date</b> 14:40:20 11/03/10
	<b>Client</b> Appalachian Wireless	<b>Designed by</b> Kirk Hall

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T5	100.00-80.00			5.50	1	20.00
T6	80.00-60.00			7.00	1	20.00
T7	60.00-40.00			8.50	1	20.00
T8	40.00-20.00			10.00	1	20.00
T9	20.00-0.00			11.50	1	20.00

**Tower Section Geometry (cont'd)**

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	180.00-160.00	5.00	X Brace	No	No	0.00	0.00
T2	160.00-140.00	5.00	X Brace	No	No	0.00	0.00
T3	140.00-120.00	5.00	X Brace	No	No	0.00	0.00
T4	120.00-100.00	5.00	X Brace	No	No	0.00	0.00
T5	100.00-80.00	5.00	X Brace	No	No	0.00	0.00
T6	80.00-60.00	5.00	X Brace	No	No	0.00	0.00
T7	60.00-40.00	5.00	Double K	No	Yes	0.00	0.00
T8	40.00-20.00	5.00	Double K	No	Yes	0.00	0.00
T9	20.00-0.00	5.00	Double K	No	Yes	0.00	0.00

**Tower Section Geometry (cont'd)**

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1 180.00-160.00	Solid Round	1 3/4	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)
T2 160.00-140.00	Solid Round	2 1/4	A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T3 140.00-120.00	Solid Round	2 1/2	A572-50 (50 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T4 120.00-100.00	Solid Round	2 3/4	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)
T5 100.00-80.00	Solid Round	2 3/4	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)
T6 80.00-60.00	Solid Round	2 3/4	A572-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)
T7 60.00-40.00	Solid Round	3	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T8 40.00-20.00	Solid Round	3	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)
T9 20.00-0.00	Solid Round	3	A572-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)

**Tower Section Geometry (cont'd)**

Tower Elevation	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
ft						
T1 180.00-160.00	Equal Angle	L1 3/4x1 3/4x1/8	A36 (36 ksi)	Solid Round		A36 (36 ksi)
T4 120.00-	Equal Angle	L1 3/4x1 3/4x1/8	A36	Equal Angle		A36

<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	<b>Job</b> 180' Model WSST / Job Q10-1049 or 1050	<b>Page</b> 3 of 3
	<b>Project</b> West Williamson or Nolan, KY	<b>Date</b> 14:40:20 11/03/10
	<b>Client</b> Appalachian Wireless	<b>Designed by</b> Kirk Hall

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
100.00			(36 ksi)			(36 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T7 60.00-40.00	None	Single Angle		A36 (36 ksi)	Equal Angle	L2x2x1/8	A36 (36 ksi)
T8 40.00-20.00	None	Single Angle		A36 (36 ksi)	Equal Angle	L2x2x3/16	A36 (36 ksi)
T9 20.00-0.00	None	Single Angle		A36 (36 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36 (36 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg Bolt Size in	Leg No.	Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
				Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 180.00-160.00	Flange	0.75	4	0.50	1	0.50	1	0.00	0	0.63	0	0.00	0	0.00	0
T2 160.00-140.00	Flange	0.75	4	A325X	A325X	A325X	A325X	A325X	A325X	A325N	A325X	A325X	A325X	A325X	A325X
T3 140.00-120.00	Flange	1.00	4	0.50	1	0.00	0	0.00	0	0.63	0	0.00	0	0.00	0
T4 120.00-100.00	Flange	1.00	4	A325X	A325X	A325X	A325X	A325X	A325X	A325N	A325X	A325X	A325X	A325X	A325X
T5 100.00-80.00	Flange	1.00	4	0.50	1	0.50	0	0.00	0	0.63	0	0.00	0	0.00	0
T6 80.00-60.00	Flange	1.00	4	A325X	A325X	A325X	A325X	A325X	A325X	A325N	A325X	A325X	A325X	A325X	A325X
T7 60.00-40.00	Flange	1.00	4	0.63	1	0.00	0	0.00	0	0.63	0	0.63	1	0.00	0
T8 40.00-20.00	Flange	1.00	4	A325X	A325X	A325X	A325X	A325X	A325X	A325N	A325X	A325X	A325X	A325X	A325X
T9 20.00-0.00	Flange	1.00	4	0.63	1	0.00	0	0.00	0	0.63	0	0.63	1	0.00	0
		A449		A325X	A325X	A325X	A325X	A325X	A325X	A325N	A325X	A325X	A325X	A325X	A325X

### Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
Safety Line 3/8	C	Yes	Ar (CfAe)	180.00 - 5.00	1	1	0.38	0.38		0.22
3/4" Rigid Conduit	C	Yes	Ar (CfAe)	180.00 - 5.00	1	1	0.75	0.75		0.70
W/G LADDER RAIL*	A	Yes	Af (CfAe)	180.00 - 5.00	2	2	12.00	0.25	8.00	2.50
W/G LADDER RAIL*	B	Yes	Af (CfAe)	165.00 - 5.00	2	2	12.00	0.25	8.00	2.50
W/G LADDER RAIL*	C	Yes	Af (CfAe)	150.00 - 5.00	2	2	12.00	0.25	8.00	2.50
1 5/8	A	Yes	Ar (CfAe)	180.00 - 5.00	6	3	0.52	1.98		1.04
							1.00			



<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	Job	180' Model WSST / Job Q10-1049 or 1050	Page	4 of 4
	Project	West Williamson or Nolan, KY	Date	14:40:20 11/03/10
	Client	Appalachian Wireless	Designed by	Kirk Hall

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
1 5/8	B	Yes	Ar (CfAe)	165.00 - 5.00	6	3	0.52 1.00	1.98		1.04
1 5/8	C	Yes	Ar (CfAe)	150.00 - 5.00	6	3	0.52 1.00	1.98		1.04
1 5/8	A	Yes	Ar (CfAe)	135.00 - 5.00	1	1	0.52 1.00	1.98		1.04
1 5/8	B	Yes	Ar (CfAe)	135.00 - 5.00	1	1	0.52 1.00	1.98		1.04

### Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>A</sub> A <sub>Front</sub>	C <sub>A</sub> A <sub>Side</sub>	Weight K
Flash Beacon Lighting	A	From Leg	0.00	0.000	180.00	No Ice	2.70	0.05
						1/2" Ice	3.10	0.07
						1		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	A	From Leg	3.00	0.000	180.00	No Ice	8.40	0.06
						1/2" Ice	8.95	0.12
						0		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	B	From Leg	3.00	0.000	180.00	No Ice	8.40	0.06
						1/2" Ice	8.95	0.12
						0		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	C	From Leg	3.00	0.000	180.00	No Ice	8.40	0.06
						1/2" Ice	8.95	0.12
						0		
WD13X53 Antenna Mounting Frame	A	From Leg	1.50	0.000	178.00 - 180.00	No Ice	9.71	0.40
						1/2" Ice	13.89	1.60
						0		
WD13X53 Antenna Mounting Frame	B	From Leg	1.50	0.000	178.00 - 180.00	No Ice	9.71	0.40
						1/2" Ice	13.89	1.60
						0		
WD13X53 Antenna Mounting Frame	C	From Leg	1.50	0.000	178.00 - 180.00	No Ice	9.71	0.40
						1/2" Ice	13.89	1.60
						0		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	A	From Leg	3.00	0.000	165.00	No Ice	8.40	0.06
						1/2" Ice	8.95	0.12
						0		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	B	From Leg	3.00	0.000	165.00	No Ice	8.40	0.06
						1/2" Ice	8.95	0.12
						0		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	C	From Leg	3.00	0.000	165.00	No Ice	8.40	0.06
						1/2" Ice	8.95	0.12
						0		
WD13X53 Antenna Mounting Frame	A	From Leg	1.50	0.000	165.00	No Ice	9.71	0.40
						1/2" Ice	13.89	1.60
						0		
WD13X53 Antenna Mounting Frame	B	From Leg	1.50	0.000	165.00	No Ice	9.71	0.40
						1/2" Ice	13.89	1.60
						0		
WD13X53 Antenna Mounting Frame	C	From Leg	1.50	0.000	165.00	No Ice	9.71	0.40
						1/2" Ice	13.89	1.60
						0		
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	A	From Leg	3.00	0.000	150.00	No Ice	8.40	0.06

<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	Job	180' Model WSST / Job Q10-1049 or 1050	Page	5 of 5
	Project	West Williamson or Nolan, KY	Date	14:40:20 11/03/10
	Client	Appalachian Wireless	Designed by	Kirk Hall

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C <sub>AA</sub> Front ft <sup>2</sup>	C <sub>AA</sub> Side ft <sup>2</sup>	Weight K	
pipe*			0		1/2" Ice	8.95	7.07	0.12	
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	B	From Leg	3.00	0.000	150.00	No Ice 1/2" Ice	8.40 8.95	6.13 7.07	0.06 0.12
(2) Panel 6' x 1' x 6" w/ mnt. pipe*	C	From Leg	3.00	0.000	150.00	No Ice 1/2" Ice	8.40 8.95	6.13 7.07	0.06 0.12
WD13X53 Antenna Mounting Frame	A	From Leg	1.50	0.000	150.00	No Ice 1/2" Ice	9.71 13.89	5.18 7.60	0.40 1.60
WD13X53 Antenna Mounting Frame	B	From Leg	1.50	0.000	150.00	No Ice 1/2" Ice	9.71 13.89	5.18 7.60	0.40 1.60
WD13X53 Antenna Mounting Frame	C	From Leg	1.50	0.000	150.00	No Ice 1/2" Ice	9.71 13.89	5.18 7.60	0.40 1.60

### Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft <sup>2</sup>	Weight K	
4 FT DISH	B	Paraboloid w/o Radome	From Leg	0.00	-30.000		135.00	4.00	No Ice 1/2" Ice	12.56 13.09	0.17 0.24
4 FT DISH	C	Paraboloid w/o Radome	From Leg	0.00	30.000		135.00	4.00	No Ice 1/2" Ice	12.56 13.09	0.17 0.24

### Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	180.	Leg	A325X	0.75	4	2.38	19.44	0.122 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.50	1	2.11	3.63	0.583 ✓	1.333	Member Bearing
		Top Girt	A325X	0.50	1	0.18	3.63	0.050 ✓	1.333	Member Bearing
T2	160	Leg	A325X	0.75	4	9.31	19.44	0.479 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.50	1	3.42	3.63	0.944 ✓	1.333	Member Bearing
T3	140	Leg	A325X	1.00	4	19.32	34.56	0.559 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.50	1	4.34	3.63	1.198 ✓	1.333	Member Bearing
T4	120	Leg	A325X	1.00	4	23.31	34.56	0.674 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.50	1	1.52	3.63	0.420 ✓	1.333	Member Bearing
		Top Girt	A325X	0.50	1	0.39	4.35	0.089 ✓	1.333	Member Bearing

<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	<b>Job</b> 180' Model WSST / Job Q10-1049 or 1050	<b>Page</b> 6 of 6
	<b>Project</b> West Williamson or Nolan, KY	<b>Date</b> 14:40:20 11/03/10
	<b>Client</b> Appalachian Wireless	<b>Designed by</b> Kirk Hall

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load K	Ratio Load Allowable	Allowable Ratio	Criteria
T5	100	Leg	A325X	1.00	4	25.65	34.56	0.742 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.50	1	1.24	3.63	0.343 ✓	1.333	Member Bearing
T6	80	Leg	A325X	1.00	4	27.78	34.56	0.804 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.50	1	1.40	3.63	0.387 ✓	1.333	Member Bearing
T7	60	Leg	A325X	1.00	4	29.45	34.56	0.852 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.63	1	1.94	6.80	0.286 ✓	1.333	Member Bearing
		Horizontal	A325X	0.63	1	2.47	4.53	0.544 ✓	1.333	Member Bearing
T8	40	Leg	A325X	1.00	4	31.35	34.56	0.907 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.63	1	1.99	6.80	0.293 ✓	1.333	Member Bearing
		Horizontal	A325X	0.63	1	2.65	6.80	0.391 ✓	1.333	Member Bearing
T9	20	Leg	A449	1.00	4	33.20	31.10	1.067 ✓	1.333	Bolt Tension
		Diagonal	A325X	0.63	1	2.09	6.80	0.307 ✓	1.333	Member Bearing
		Horizontal	A325X	0.63	1	2.84	6.80	0.418 ✓	1.333	Member Bearing

### Compression Checks

### Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>a</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>a</sub> K	Ratio P/P <sub>a</sub>
T1	180 - 160	1 3/4	20.00	5.00	137.1 K=1.00	7.94	2.41	-15.24	19.10	0.798 ✓
T2	160 - 140	2 1/4	20.00	5.00	106.7 K=1.00	13.12	3.98	-47.48	52.18	0.910 ✓
T3	140 - 120	2 1/2	20.00	5.00	96.0 K=1.00	15.62	4.91	-90.54	76.67	1.181 ✓
T4	120 - 100	2 3/4	20.02	5.00	87.4 K=1.00	17.50	5.94	-109.26	103.95	1.051 ✓
T5	100 - 80	2 3/4	20.02	5.00	87.4 K=1.00	17.50	5.94	-121.25	103.95	1.166 ✓
T6	80 - 60	2 3/4	20.02	5.00	87.4 K=1.00	17.50	5.94	-132.61	103.95	1.276 ✓
T7	60 - 40	3	20.02	5.00	80.1 K=1.00	19.00	7.07	-142.31	134.29	1.060 ✓
T8	40 - 20	3	20.02	5.00	80.1 K=1.00	19.00	7.07	-153.14	134.29	1.140 ✓
T9	20 - 0	3	20.02	5.00	80.1 K=1.00	19.00	7.07	-163.74	134.29	1.219 ✓

### Diagonal Design Data (Compression)

<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	<b>Job</b> 180' Model WSST / Job Q10-1049 or 1050	<b>Page</b> 7 of 7
	<b>Project</b> West Williamson or Nolan, KY	<b>Date</b> 14:40:20 11/03/10
	<b>Client</b> Appalachian Wireless	<b>Designed by</b> Kirk Hall

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>o</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>o</sub> K	Ratio P P <sub>o</sub>
T1	180 - 160	L1 3/4x1 3/4x1/8	6.40	3.08	106.7 K=1.00	12.11	0.42	-2.13	5.11	0.417 ✓
T2	160 - 140	L2x2x1/8	6.40	3.05	92.1 K=1.00	13.66	0.48	-3.49	6.62	0.527 ✓
T3	140 - 120	L2x2x1/8	6.40	3.03	91.6 K=1.00	13.72	0.48	-4.56	6.65	0.687 ✓
T4	120 - 100	L1 3/4x1 3/4x1/8	7.30	3.62	125.2 K=1.00	9.52	0.42	-1.37	4.02	0.341 ✓
T5	100 - 80	L1 3/4x1 3/4x1/8	8.45	4.20	145.3 K=1.00	7.07	0.42	-1.35	2.98	0.451 ✓
T6	80 - 60	L1 3/4x1 3/4x1/8	9.70	4.83	167.0 K=1.00	5.36	0.42	-1.39	2.26	0.616 ✓
T7	60 - 40	L2 1/2x2 1/2x3/16	7.07	6.90	167.2 K=1.00	5.34	0.90	-1.96	4.82	0.407 ✓
T8	40 - 20	L2 1/2x2 1/2x3/16	7.62	7.46	180.7 K=1.00	4.57	0.90	-2.09	4.12	0.506 ✓
T9	20 - 0	L2 1/2x2 1/2x3/16	8.20	8.04	195.0 K=1.00	3.93	0.90	-2.25	3.54	0.634 ✓

### Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>o</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>o</sub> K	Ratio P P <sub>o</sub>
T7	60 - 40	L2x2x1/8	9.63	4.69	141.5 K=1.00	7.46	0.48	-2.47	3.61	0.683 ✓
T8	40 - 20	L2x2x3/16	11.13	5.44	165.6 K=1.00	5.44	0.71	-2.65	3.89	0.682 ✓
T9	20 - 0	L2 1/2x2 1/2x3/16	12.63	6.19	150.0 K=1.00	6.64	0.90	-2.84	5.99	0.474 ✓

### Tension Checks

### Leg Design Data (Tension)

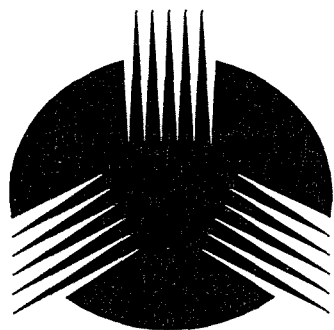
Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>o</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>o</sub> K	Ratio P P <sub>o</sub>
T1	180 - 160	1 3/4	20.00	5.00	137.1	30.00	2.41	9.52	72.16	0.132 ✓
T2	160 - 140	2 1/4	20.00	5.00	106.7	30.00	3.98	37.23	119.28	0.312 ✓
T3	140 - 120	2 1/2	20.00	5.00	96.0	30.00	4.91	77.27	147.26	0.525 ✓
T4	120 - 100	2 3/4	20.02	5.00	87.4	30.00	5.94	93.23	178.19	0.523 ✓
T5	100 - 80	2 3/4	20.02	5.00	87.4	30.00	5.94	102.60	178.19	0.576 ✓

<b>RISATower</b>  <b>World Tower Company</b> 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	<b>Job</b> 180' Model WSST / Job Q10-1049 or 1050	<b>Page</b> 8 of 8
	<b>Project</b> West Williamson or Nolan, KY	<b>Date</b> 14:40:20 11/03/10
	<b>Client</b> Appalachian Wireless	<b>Designed by</b> Kirk Hall

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	F <sub>o</sub> ksi	A in <sup>2</sup>	Actual P K	Allow. P <sub>o</sub> K	Ratio P/P <sub>o</sub>
T6	80 - 60	2 3/4	20.02	5.00	87.4	30.00	5.94	111.11	178.19	0.624 ✓
T7	60 - 40	3	20.02	5.00	80.1	30.00	7.07	117.96	212.06	0.556 ✓
T8	40 - 20	3	20.02	5.00	80.1	30.00	7.07	125.56	212.06	0.592 ✓
T9	20 - 0	3	20.02	5.00	80.1	30.00	7.07	132.97	212.06	0.627 ✓

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	SF*P <sub>allow</sub> K	% Capacity	Pass Fail	
T1	180 - 160	Leg	1 3/4	3	-15.24	25.46	59.9	Pass	
T2	160 - 140	Leg	2 1/4	31	-47.48	69.56	68.3	Pass	
T3	140 - 120	Leg	2 1/2	59	-90.54	102.20	88.6	Pass	
T4	120 - 100	Leg	2 3/4	85	-109.26	138.57	78.9	Pass	
T5	100 - 80	Leg	2 3/4	115	-121.25	138.57	87.5	Pass	
T6	80 - 60	Leg	2 3/4	143	-132.61	138.57	95.7	Pass	
T7	60 - 40	Leg	3	169	-142.31	179.00	79.5	Pass	
T8	40 - 20	Leg	3	202	-153.14	179.00	85.6	Pass	
T9	20 - 0	Leg	3	235	-163.74	179.00	91.5	Pass	
T1	180 - 160	Diagonal	L1 3/4x1 3/4x1/8	10	-2.13	6.81	31.3	Pass	
T2	160 - 140	Diagonal	L2x2x1/8	38	-3.49	8.82	39.5	Pass	
T3	140 - 120	Diagonal	L2x2x1/8	61	-4.56	8.86	51.5	Pass	
T4	120 - 100	Diagonal	L1 3/4x1 3/4x1/8	92	-1.37	5.35	25.6	Pass	
T5	100 - 80	Diagonal	L1 3/4x1 3/4x1/8	118	-1.35	3.98	33.9	Pass	
T6	80 - 60	Diagonal	L1 3/4x1 3/4x1/8	146	-1.39	3.01	46.2	Pass	
T7	60 - 40	Diagonal	L2 1/2x2 1/2x3/16	174	-1.96	6.43	30.5	Pass	
T8	40 - 20	Diagonal	L2 1/2x2 1/2x3/16	206	-2.09	5.50	38.0	Pass	
T9	20 - 0	Diagonal	L2 1/2x2 1/2x3/16	239	-2.25	4.72	47.6	Pass	
T7	60 - 40	Horizontal	L2x2x1/8	172	-2.47	4.82	51.2	Pass	
T8	40 - 20	Horizontal	L2x2x3/16	205	-2.65	5.19	51.1	Pass	
T9	20 - 0	Horizontal	L2 1/2x2 1/2x3/16	244	-2.84	7.98	35.6	Pass	
T1	180 - 160	Top Girt	L1 3/4x1 3/4x1/8	4	-0.19	4.72	4.0	Pass	
T4	120 - 100	Top Girt	L1 3/4x1 3/4x1/8	88	-0.39	4.88	7.9	Pass	
							Summary		
							Leg (T6)	95.7	Pass
							Diagonal (T3)	51.5	Pass
							Horizontal (T7)	51.2	Pass
							Top Girt (T4)	7.9	Pass
							Bolt Checks	89.8	Pass
							<b>RATING =</b>	<b>95.7</b>	<b>Pass</b>



# **WORLD TOWER**

COMPANY, INC.

---

P.O. Box 508  
1213 Compressor Dr.  
Mayfield, KY 42066

Phone: 270-247-3642  
Fax: 270-247-0909

**[WWW.WORLDTOWER.COM](http://WWW.WORLDTOWER.COM)**

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Federal Aviation Administration

<< OE/AAA

**Notice of Proposed Construction or Alteration - Off Airport**

**Project Name:** EAST -000167181-11

**Sponsor:** East Kentucky Network, LLC

**Details for Case : Nolan**

Show Project Summary

**Case Status**

**ASN:** 2011-ASO-972-OE  
**Status:** Accepted

**Date Accepted:** 02/11/2011

**Date Determined:**

**Letters:** None

**Documents:** 02/11/2011 Nolan\_Survey.pdf  
 02/11/2011 Nolan\_Survey.pdf

**Construction / Alteration Information**

**Notice Of:** Construction  
**Duration:** Permanent  
**if Temporary :** Months: Days:  
**Work Schedule - Start:** 03/01/2011  
**Work Schedule - End:** 03/15/2011  
**State Filing:** Filed with State

**Structure Summary**

**Structure Type:** Tower  
**Structure Name:** Nolan  
**NOTAM Number:**  
**FCC Number:**  
**Prior ASN:**

**Structure Details**

**Latitude:** 37° 45' 45.42" N  
**Longitude:** 82° 18' 57.62" W  
**Horizontal Datum:** NAD83  
**Site Elevation (SE):** 1016 (nearest foot)  
**Structure Height (AGL):** 190 (nearest foot)  
*\* If the entered AGL is a proposed change to an existing structure's height include the current AGL in the Description of Proposal.*

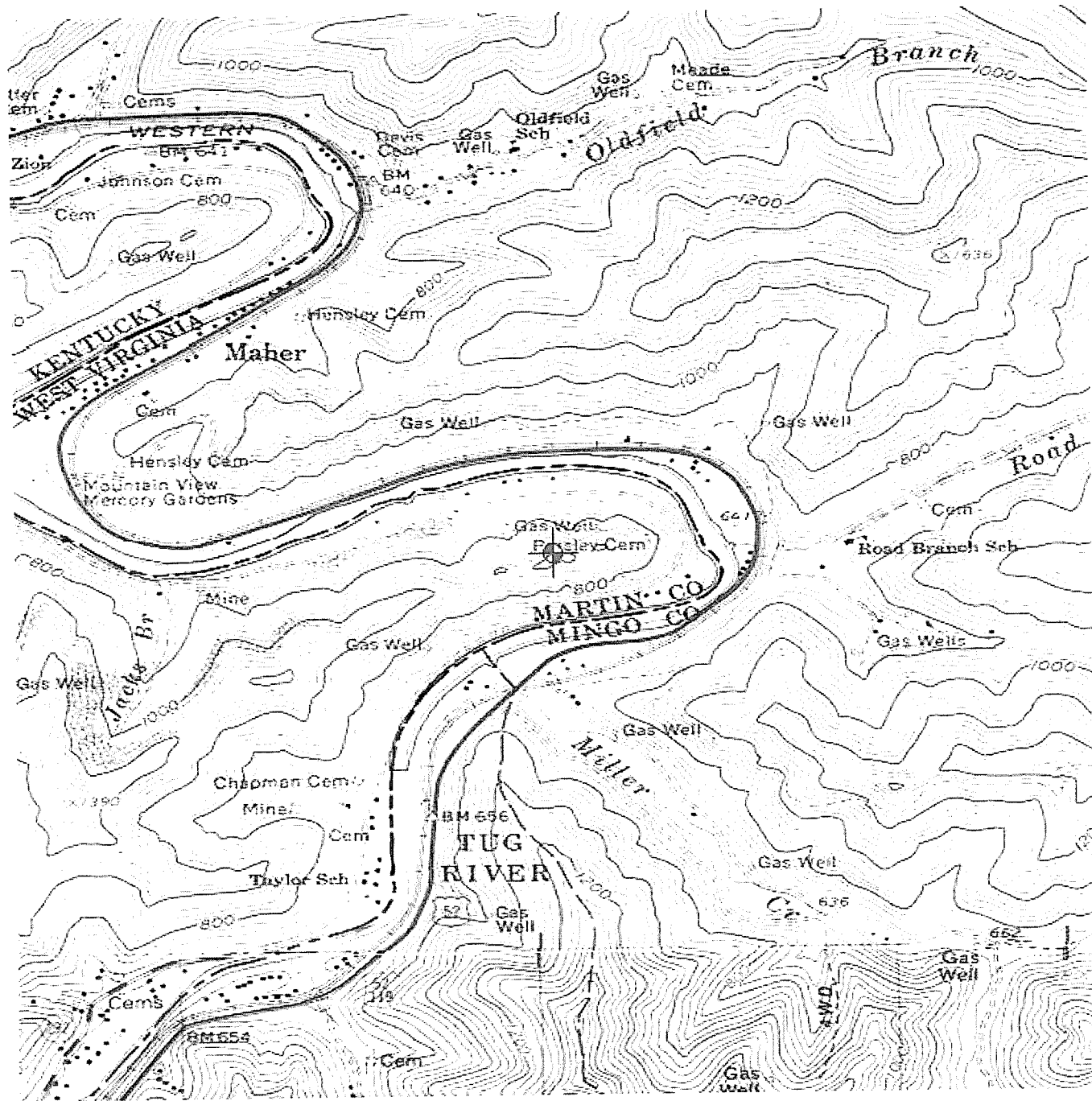
**Common Frequency Bands**

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
698	806	MHz	1000	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

**Requested Marking/Lighting:** None  
**Other :**  
**Recommended Marking/Lighting:**  
**Current Marking/Lighting:** N/A New Structure  
**Other :**

**Nearest City:** Nolan  
**Nearest State:** Kentucky  
**Description of Location:** Approx. 1.8 mi NNE of Nolan (Martin), KY  
*On the Project Summary page upload any certified survey.*  
**Description of Proposal:** A new 180' tower with top-mounted antennas (overall height of 190' AGL)

**Specific Frequencies**





**Lynn Haney**

---

**From:** Gerald Robinette [grobinette110@ekn.com]  
**Sent:** Wednesday, February 16, 2011 8:06 AM  
**To:** lhaney@ekn.com  
**Subject:** FW: 638 - KAZC study request for the construction of Nolan site  
**Importance:** Low  
FYI

---

**From:** Ali Kuzehkanani [mailto:AKuzehkanani@fcclaw.com]  
**Sent:** Tuesday, February 15, 2011 2:09 PM  
**To:** Marty Thacker  
**Cc:** Gerald Robinette  
**Subject:** FW: 638 - KAZC study request for the construction of Nolan site  
**Importance:** Low

---

**From:** Houlihan, John (KYTC) [mailto:John.Houlihan@ky.gov]  
**Sent:** Tuesday, February 15, 2011 12:41 PM  
**To:** Ali Kuzehkanani  
**Subject:** RE: 638 - KAZC study request for the construction of Nolan site  
**Importance:** Low

Ali,

The above subject does not require a permit from the Kentucky Airport Zoning Commission. The antenna does not exceed any of the following criteria:

**602 KAR 50:030. Jurisdiction of the Kentucky Airport Zoning Commission.**

RELATES TO: KRS 183.861, 183.865, 183.867, 183.870  
STATUTORY AUTHORITY: KRS 183.861

NECESSITY, FUNCTION, AND CONFORMITY: KRS 183.867 specifies that the commission has jurisdiction over zoning for all public use and military airports. This administrative regulation defines the areas over which the Kentucky Airport Zoning Commission has jurisdiction for the purpose of zoning in accordance with KRS Chapter 183 and specifics when the owner or person who has control over a structure which encroaches on the jurisdiction of the Kentucky Airport Zoning Commission shall apply for a permit.

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

(1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use and military airport with at least one (1) runway 3,200 feet or more in length; or

(2) Fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in actual length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public

use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use and military airport as depicted on Airport Zoning Maps approved by the Kentucky Airport Zoning Commission.

Section 4. The commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above ground level.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the commission has jurisdiction shall apply for a permit from the commission in accordance with 602 KAR 50:090. (KAV-9-1; 1 Ky.R. 807; eff. 5-14-75; Am. 2 Ky.R. 306; eff. 3-10-76; 5 Ky.R. 599; eff. 3-7-79; 10 Ky.R. 445; eff. 1-4-84; 14 Ky.R. 267; eff. 9-10-87; 19 Ky.R. 800; eff. 11-4-92; 27 Ky.R. 2228; 2774; eff. 4-9-2001.)

Please keep this email for your records. Thank you.

---

**From:** Ali Kuzehkanani [mailto:AKuzehkanani@fcclaw.com]  
**Sent:** Friday, February 11, 2011 11:03 AM  
**To:** KYTC Airport Zoning Comm (KYTC)  
**Cc:** Gerald Robinette; Marty Thacker  
**Subject:** 638 - KAZC study request for the construction of Nolan site

Dear Madam/Sir:

Forwarded herewith in accordance with KRS 183.990 and Chapter 50 of Title 602 of the Kentucky Administrative Regulations, is an "Application for Permit to Construct or Alter a Structure" (Form TC 56-50) for a new 180-foot communications support structure (Nolan) proposed near Nolan (Martin), KY. The site is located approximately 1.8 mi NNE of Nolan (Martin), KY at geographic coordinates (**NAD83**) N 37-45-45.42; W 82-18-57.62.

Attached is a copy of the electronic FAA 7460-1 filing. A copy of the final FAA determination will be provided to you as soon as it is issued.

Please let me know if you have any questions or require any additional information.

Thank you in advance for your help in this matter.

Regards

---

**Ali Kuzehkanani**  
Director of Engineering  
Lukas, Nace, Gutierrez & Sachs, LLP  
8300 Greensboro Drive, Suite 1200  
McLean, VA 22102  
Direct (703) 584-8667  
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Email [akuzehkanani@fcclaw.com](mailto:akuzehkanani@fcclaw.com)

3/1/2011

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**FINANCIAL REPORT**

**December 31, 2009**

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*Jones, Nale & Mattingly PLC*

## INDEPENDENT AUDITOR'S REPORT

To the Members  
East Kentucky Network, LLC  
dba Appalachian Wireless  
Ivel, Kentucky

We have audited the accompanying balance sheets of East Kentucky Network, LLC, dba Appalachian Wireless as of December 31, 2009 and 2008 and the related statements of income, members' equity and cash flows for the years then ended. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of East Kentucky Network, LLC, dba Appalachian Wireless as of December 31, 2009 and 2008 and the results of its operations and its cash flows for the years then ended in conformity with accounting principles generally accepted in the United States of America.

*Jones, Nale & Mattingly P.C.*

Louisville, Kentucky  
February 26, 2010

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**BALANCE SHEETS  
December 31, 2009 and 2008**

ASSETS	<u>2009</u>	<u>2008</u>
<b>CURRENT ASSETS</b>		
Cash and cash equivalents	\$ 2,874,412	\$ 5,145,165
Short-term investments	100,000	100,000
Accounts receivable, less allowance for doubtful accounts of \$1,405,597 in 2009 and \$1,054,283 in 2008	7,806,718	6,246,970
Accounts receivable, members (Notes 5 and 6)	87,192	88,078
Inventory	5,699,380	3,053,445
Prepaid expenses	537,143	411,948
Total current assets	<u>\$ 17,104,845</u>	<u>\$ 15,045,606</u>
 <b>PROPERTY, PLANT AND EQUIPMENT (Note 3)</b>		
Plant in service:		
General support	\$ 27,455,560	\$ 25,380,330
MTSO equipment	22,282,589	20,505,774
Cell equipment	64,198,981	55,340,782
Paging equipment	3,321,068	3,321,068
Fiber ring	7,675,975	7,429,057
Unfinished plant	3,675,759	1,951,193
	<u>\$128,609,932</u>	<u>\$113,928,204</u>
Less accumulated depreciation	57,070,186	48,072,427
	<u>\$ 71,539,746</u>	<u>\$ 65,855,777</u>
 <b>OTHER ASSETS</b>		
Investment in affiliated company, RTFC	\$ 112,712	\$ 112,712
Intangible assets, net of accumulated amortization of \$4,389,605 in 2009 and \$3,707,354 in 2008 (Note 2)	4,578,754	5,261,006
Other	19,712	19,712
	<u>\$ 4,711,178</u>	<u>\$ 5,393,430</u>
	<u>\$ 93,355,769</u>	<u>\$ 86,294,813</u>

The Notes to Financial Statements are an integral part of these statements.

LIABILITIES AND MEMBERS' EQUITY	<u>2009</u>	<u>2008</u>
<b>CURRENT LIABILITIES</b>		
Current maturities of long-term debt (Note 3)	\$ 2,685,714	\$ 3,852,381
Accounts payable	2,033,336	1,772,238
Accounts payable, member (Notes 5 and 6)	35,206	49,579
Accrued expenses	1,519,862	1,208,138
Deferred revenue, advance billings	2,133,743	1,887,230
Customer deposits	574,996	600,872
Total current liabilities	<u>\$ 8,982,857</u>	<u>\$ 9,370,438</u>
LONG-TERM DEBT, less current maturities (Note 3)	<u>\$ 13,559,207</u>	<u>\$ 16,388,735</u>
INTEREST RATE SWAPS (Note 8)	<u>\$ 1,384,261</u>	<u>\$ 2,067,821</u>
<b>MEMBERS' EQUITY</b>		
Members' capital accounts	\$ 70,813,705	\$ 60,535,640
Accumulated other comprehensive (loss)	(1,384,261)	(2,067,821)
	<u>\$ 69,429,444</u>	<u>\$ 58,467,819</u>
	<u>\$ 93,355,769</u>	<u>\$ 86,294,813</u>

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**STATEMENTS OF INCOME  
Years Ended December 31, 2009 and 2008**

	<u>2009</u>	<u>2008</u>
<b>REVENUE</b>		
Retail	\$ 46,125,449	\$ 40,207,998
Roamer	16,777,789	12,592,115
Long distance	195,754	214,296
Paging	488,500	566,677
Equipment sales, cellular	2,198,961	2,248,939
Equipment sales, paging	93,942	35,777
Other	3,649,814	3,299,759
Total revenue	<u>\$ 69,530,209</u>	<u>\$ 59,165,561</u>
 <b>EXPENSES</b>		
Cost of cellular service	\$ 15,223,905	\$ 12,861,903
Cost of paging service	339,051	332,386
Cost of equipment sales, cellular	13,508,510	11,656,367
Cost of equipment sales, paging	57,023	56,705
Customer service	1,364,596	1,313,033
Billing	1,657,074	1,383,121
Selling	4,188,213	3,731,205
Maintenance	2,595,663	1,838,940
Utilities	900,421	711,446
Bad debts	473,634	802,158
Cell site rental	244,023	214,620
Taxes and licenses	446,482	965,327
Advertising	3,815,728	2,968,190
General and administrative	3,666,329	3,106,380
Occupancy	632,810	403,800
Depreciation	9,105,095	7,703,016
Amortization	839,546	693,384
Total expenses	<u>\$ 59,058,103</u>	<u>\$ 50,741,981</u>
Income from operations	<u>\$ 10,472,106</u>	<u>\$ 8,423,580</u>
 <b>OTHER INCOME (EXPENSE)</b>		
Interest income	\$ 31,040	\$ 56,023
Interest expense	(1,424,984)	(1,242,505)
Universal Service Fund income (Note 7)	7,045,378	6,680,698
	<u>\$ 5,651,434</u>	<u>\$ 5,494,216</u>
Net income	<u>\$ 16,123,540</u>	<u>\$ 13,917,796</u>

The Note to Financial Statements are an integral part of these statements.



**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**STATEMENTS OF MEMBERS' EQUITY  
Years Ended December 31, 2009 and 2008**

	Cellular Services, LLC	Gearhart Communi- cations Company, Inc.	Mountain Tele- communi- cations, Inc.	Thacker- Grigsby Telephone Co., Inc.	Peoples Rural Telephone Coop- erative Corp- oration, Inc.	Total
Balance, January 1, 2008	\$10,044,087	\$10,044,087	\$10,044,086	\$10,044,086	\$10,044,086	\$50,220,432
Comprehensive income:						
Net income	2,783,559	2,783,559	2,783,560	2,783,559	2,783,559	13,917,796
Change in fair value of interest rate swaps	<u>(299,038)</u>	<u>(299,038)</u>	<u>(299,038)</u>	<u>(299,038)</u>	<u>(299,037)</u>	<u>(1,495,189)</u>
Total comprehensive income	\$ 2,484,521	\$ 2,484,521	\$ 2,484,522	\$ 2,484,521	\$ 2,484,522	\$12,422,607
Capital distributions	<u>(835,044)</u>	<u>(835,044)</u>	<u>(835,044)</u>	<u>(835,044)</u>	<u>(835,044)</u>	<u>(4,175,220)</u>
Balance, December 31, 2008	\$11,693,564	\$11,693,564	\$11,693,564	\$11,693,563	\$11,693,564	\$58,467,819
Comprehensive income:						
Net income	3,224,708	3,224,708	3,224,708	3,224,708	3,224,708	16,123,540
Change in fair value of interest rate swaps	<u>136,712</u>	<u>136,712</u>	<u>136,712</u>	<u>136,712</u>	<u>136,712</u>	<u>683,560</u>
Total comprehensive income	\$ 3,361,420	\$ 3,361,420	\$ 3,361,420	\$ 3,361,420	\$ 3,361,420	\$16,807,100
Capital distributions	<u>(1,169,095)</u>	<u>(1,169,095)</u>	<u>(1,169,095)</u>	<u>(1,169,095)</u>	<u>(1,169,095)</u>	<u>(5,845,475)</u>
Balance, December 31, 2009	<u>\$13,885,889</u>	<u>\$13,885,889</u>	<u>\$13,885,889</u>	<u>\$13,885,888</u>	<u>\$13,885,889</u>	<u>\$69,429,444</u>

The Notes to Financial Statements are an integral part of these statements.

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**STATEMENTS OF CASH FLOWS  
Years Ended December 31, 2009 and 2008**

	2009	2008
<b>CASH FLOWS FROM OPERATING ACTIVITIES</b>		
Net income	\$ 16,123,540	\$ 13,917,796
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation	9,105,095	7,703,016
Amortization	839,546	693,384
Loss (gain) on disposition of property, plant, and equipment	82,302	(3,723)
Changes in assets and liabilities, net of the effects of investing and financing activities:		
(Increase) in accounts receivable	(1,559,748)	(1,199,357)
(Increase) decrease in accounts receivable, members	886	(8,275)
(Increase) in inventory	(2,645,935)	(74,188)
(Increase) decrease in prepaid expenses	(125,195)	19,911
Decrease in other assets	--	969
Increase in accounts payable	261,098	834,045
Increase (decrease) in accounts payable, member	(14,373)	4,312
Increase in accrued expenses	311,724	84,489
Increase in deferred revenue, advance billings	246,513	381,239
Increase (decrease) in customer deposits	(25,876)	147,402
Net cash provided by operating activities	\$ 22,599,577	\$ 22,501,020
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>		
Purchase of property, plant and equipment	\$ (15,028,659)	\$ (19,196,297)
Proceeds from sale of property, plant and equipment	--	11,500
Purchase of intangible assets	--	(1,650,275)
Net cash (used in) investing activities	\$ (15,028,659)	\$ (20,835,072)
<b>CASH FLOWS FROM FINANCING ACTIVITIES</b>		
Capital distributions	\$ (5,845,475)	\$ (4,790,603)
Proceeds from long-term borrowings	10,200,000	8,250,000
Payments on long-term borrowings	(14,196,195)	(1,758,884)
Net cash provided by (used in) financing activities	\$ (9,841,670)	\$ 1,700,513
Net increase (decrease) in cash and cash equivalents	\$ (2,270,752)	\$ 3,366,461
Cash and cash equivalents:		
Beginning	5,145,165	1,778,704
Ending	\$ 2,874,413	\$ 5,145,165
<b>SUPPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION</b>		
Cash payments for interest	\$ 1,431,014	\$ 1,178,953

The Notes to Financial Statements are an integral part of these statements.

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**NOTES TO FINANCIAL STATEMENTS**

Note 1. Summary of Significant Accounting Policies

Nature of operations

East Kentucky Network, LLC, dba Appalachian Wireless, is a Kentucky limited liability company formed by the merger of Appalachian Cellular, LLC, Mountaineer Cellular, LLC and East Kentucky Network, LLC on January 1, 2000. The Company is engaged in cellular telephone communications and paging services to residential and commercial customers located in eastern Kentucky. The Company's five members consist of Cellular Services, LLC; Gearheart Communications Company, Inc.; Mountain Telecommunications, Inc.; Peoples Rural Telephone Cooperative Corporation, Inc.; and Thacker-Grigsby Telephone Co., Inc.

Cash

The Company maintains its cash balances, which may exceed the federally insured limit, with several financial institutions. These financial institutions have strong credit ratings and management believes that credit risk related to the accounts is minimal.

Cash equivalents

For purposes of the statement of cash flows, the Company considers temporary investments having original maturities of three months or less to be cash equivalents.

Short-term investments

Certificates of deposit having original maturities between three and nine months are classified as short-term investments, are carried at cost, which approximates fair value, and are held to maturity. Fair value is determined by quoted prices for similar certificates of deposit in active markets.

Inventory

Inventory is composed of cellular telephone equipment, paging equipment, and accessories purchased for resale during the ordinary course of business. The inventory is valued at the lower of cost or market, cost being determined by the first-in, first-out (FIFO) method.

Property, plant and equipment

Property, plant and equipment are recorded at cost. Depreciation is provided using the straight-line method over the estimated useful lives of the assets.

Investment

The investment in affiliated company is composed of equity certificates in Rural Telephone Finance Cooperative and is reported at cost, which approximates fair value.

## NOTES TO FINANCIAL STATEMENTS

### Note 1. Summary of Significant Accounting Policies (Continued)

#### Intangible assets

The customer lists, non-compete agreements, FCC licenses, bond issuance costs, loan fees and use of name are recorded at cost and are being amortized over the life of the asset by the straight-line method.

#### Recognition of revenue

Cellular service and paging revenues are recognized when earned. Deferred revenue consists of monthly access and feature charges billed one month in advance and recognized as revenue the following month. Revenue from telephones and accessories sold are recognized as revenue upon delivery to the customer.

#### Advertising

Advertising costs are expensed as incurred. At December 31, 2009 and 2008, these costs were \$3,815,729 and \$2,968,190, respectively.

#### Income taxes

Under existing provisions of the Internal Revenue Code, the income or loss of a limited liability company is recognized by the members for income tax purposes. Accordingly, no provision for federal income taxes has been provided for in the accompanying financial statements.

Management evaluates its potential exposures from tax positions taken that have or could be challenged by taxing authorities. These potential exposures result because taxing authorities may take positions that differ from those taken by management in the interpretation and application of statutes, regulations, and rules. There are no tax positions for which the ultimate deductibility is highly uncertain included in the accompanying financial statements.

The Company recognizes interest accrued related to unrecognized tax benefits in interest expense and penalties in operating expenses. The Company did not recognize any interest or penalties during the years ended December 31, 2009 and 2008.

#### Use of estimates

Management uses estimates and assumptions in preparing financial statements. Those estimates and assumptions affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported revenues and expenses.

#### Comprehensive income

Comprehensive income consists of net income and other comprehensive income. Other comprehensive income includes the change in fair value of interest rate swaps which is also recognized as a separate component of equity.

## NOTES TO FINANCIAL STATEMENTS

### Note 1. Summary of Significant Accounting Policies (Continued)

#### Subsequent events

Management has evaluated subsequent events through February 26, 2010, the date the financial statements were available to be issued.

#### Reclassification

Certain amounts presented in the prior period have been restated to conform with the current year presentation.

### Note 2. Intangible Assets

Intangible assets consist of the following at December 31, 2009:

	Gross Amount	Accumulated Amortization
Customer lists	\$ 5,363,530	\$ (3,225,882)
Non-compete agreements	220,348	(165,657)
FCC licenses	2,452,368	(717,074)
Use of name	10,000	(6,335)
Other	922,114	(274,657)
	\$ 8,968,360	\$ (4,389,605)

Intangible assets consist of the following at December 31, 2008:

	Gross Amount	Accumulated Amortization
Customer lists	\$ 5,363,530	\$ (2,868,564)
Non-compete agreements	220,348	(150,977)
FCC licenses	2,452,368	(544,730)
Use of name	10,000	(5,669)
Other	922,114	(137,414)
	\$ 8,968,360	\$ (3,707,354)

## NOTES TO FINANCIAL STATEMENTS

### Note 2. Intangible Assets (Continued)

Aggregate amortization expense related to these intangible assets for the years ended December 31, 2009 and 2008 totaled \$682,251 and \$575,586, respectively. The following represents the total estimated amortization of intangible assets for each of the succeeding five years:

Year ending December 31:

2010	\$ 680,000
2011	680,000
2012	680,000
2013	660,000
2014	620,000

### Note 3. Long-Term Debt

Long-term debt consists of the following at December 31:

	2009	2008
Note payable, Fifth Third Bank (a)	\$ 9,033,333	\$ 11,600,000
Line of credit, Fifth Third Bank (b)	--	--
Note payable, Fifth Third Bank (c)	7,211,588	8,641,116
	\$ 16,244,921	\$ 20,241,116

- (a) On February 28, 2006, the Company issued \$14,200,000 in adjustable rate notes to restructure its debt. The notes were issued pursuant to a trust indenture between the Company and U.S. Bank National Association. Principal and interest on the notes are paid from funds drawn by the Trustee under an irrevocable letter of credit issued by Fifth Third Bank. The Notes are collateralized by the assets of the Company and mature on February 1, 2016. The Notes bear interest at a floating interest rate as determined by U.S. Bank National Association (4.60% at 12/31/08). However, the Company entered into an interest rate swap contract (original notional amount of \$14,200,000) that effectively converted its floating-rate debt into a fixed-rate of 8.02%.

On February 2, 2009, the Company refinanced the remaining \$10,200,000 of the note with a new note payable that matures November 1, 2013 and is collateralized by the assets of the Company. Interest on the note is floating at monthly LIBOR plus 1.75% as determined by Fifth Third Securities, Inc. (1.99% at 12/31/09). The Company also renegotiated the terms of the interest rate swap contract and entered into an interest rate swap contract (original notional amount of \$10,200,000) that effectively converts its floating-rate debt into a fixed rate of 7.46% (see Note 8). The note is payable in monthly installments of \$116,667 plus interest through February 1, 2012 and \$125,000 plus interest thereafter through November 1, 2013 with a balloon payment due at maturity.

## NOTES TO FINANCIAL STATEMENTS

### Note 3. Long-Term Debt (Continued)

- (b) The line of credit agreement with Fifth Third Bank provides for borrowing up to \$2,000,000. The agreement carries a variable interest rate (3.24% at 12/31/09), is secured by the assets of the Company, and is due September 1, 2010.
- (c) On September 1, 2008, the Company borrowed \$9,000,000 to restructure existing debt, purchase new equipment and upgrade dexisting equipment. The note is collateralized by the assets of the Company. Interest on the note is floating at monthly LIBOR plus 3.00% as determined by Fifth Third Securities, Inc (3.24% at 12/31/09). The Company also entered into an interest rate swap contract (original notional amount of \$9,000,000) that effectively converts its floating-rate debt into a fixed rate of 7.20% (see Note 8). The note is payable in monthly installments of \$107,143 plus interest with a balloon payment due on September 1, 2013.

Under terms of the Notes, the Company has also agreed, among other things, to maintain minimum debt service coverage and minimum debt to tangible worth ratios. The Company was in violation of certain of these covenants as of December 31, 2009; however, these violations have been waived by the noteholder.

Approximate maturities or payments required on principal under note payable agreements for each of the succeeding five years are as follows:

Year ending December 31:

2010	\$ 2,685,714
2011	2,685,714
2012	2,769,048
2013	8,104,445
2014	- -

### Note 4. Retirement Plans

The Company has a 401(k) plan for qualifying employees who have reached twenty-one years of age. Eligible employees are allowed to invest up to 15% of their compensation and the Company has agreed to match 100% of the first 3% of the employees' contribution and 50% of the employees' contribution between 3% and 5%. The Company contributed \$124,071 and \$112,235 in matching funds for its 401(k) plan during the years ended December 31, 2009 and 2008, respectively.

The Company also offers an employer sponsored retirement savings plan for qualified employees who have reached twenty-one years of age. The Company has agreed to contribute 9% of the eligible employee's compensation, plus an additional 5% of the original contribution.

The Company contributed \$421,669 and \$371,105 to its retirement savings plan during the years ended December 31, 2009 and 2008, respectively.

## NOTES TO FINANCIAL STATEMENTS

### Note 5. Related Party Transactions

The Company shares personnel with three of its members. The Company paid \$210,990 and \$157,825 for shared personnel during the years ended December 31, 2009 and 2008, respectively. The Company also leased offices and warehouse space from three members. The leases are for an unspecified length of time. The annual lease expense related to these leases was \$20,483 and \$20,301 during the years ended December 31, 2009 and 2008, respectively.

The Company incurred interconnection, telephone, cable and internet access charges from its members aggregating \$1,111,251 and \$1,047,239 for the years ended December 31, 2009 and 2008, respectively.

The Company leases two cellular tower sites from the officers and majority shareholders of a member. The annual lease expense related to these leases was \$2,400 for both years ended December 31, 2009 and 2008. The leases are for an unspecified length of time. The Company also pays part of an annual lease for sharing a tower with a member for an annual fee of \$450. In addition, the Company leases one other site from a company owned by a member. The annual lease expense related to this lease for the years ended December 31, 2009 and 2008 amounted to \$11,700 and \$3,600, respectively. The Company leases cellular tower sites from the parent company of one of its other members. The annual lease expense related to these leases was \$12,463 for both years ended December 31, 2009 and 2008. The leases are for five years with options to renew.

The Company pays commissions to its members for phone sales to customers. The amount of commissions paid to related parties during the years ended December 31, 2009 and 2008 was \$45,420 and \$51,872, respectively.

The Company pays fees to companies owned by its members for advertisement in telephone directories, television and on local billboards. The amount of advertising paid to related parties was \$54,522 and \$98,276 for the years ended December 31, 2009 and 2008, respectively.

### Note 6. Operating Leases

The Company has entered into operating leases with its members and other customers to provide fiber optic transmission capacity and ancillary services. The terms of these leases are for 15 years. Total rental income earned from these operating lease commitments included in the statements of income was \$1,194,626 and \$1,612,227 for the years ended December 31, 2009 and 2008, respectively. Rental income earned from the Company's members from these leases was \$799,054 and \$780,931 for the years ended December 31, 2009 and 2008, respectively.



## NOTES TO FINANCIAL STATEMENTS

### Note 6. Operating Leases (Continued)

Investments in operating leases are as follows at December 31:

	2009	2008
Fiber ring	\$ 7,675,975	\$ 7,429,057
Accumulated depreciation	(2,623,141)	(2,143,096)
	\$ 5,052,834	\$ 5,285,961

The future minimum rental payments expected to be received under these lease agreements for each of the succeeding five years are approximately \$1,200,000 each year.

The Company has also entered into lease agreements to obtain fiber optic transmission and digital microwave transmission services; and to rent retail office facilities. The terms of these leases are between 5 and 15 years. Total rental expense incurred from these operating lease commitments included in the statements of income was \$1,070,826 and \$805,277 for the years ended December 31, 2009 and 2008, respectively. Rental expense incurred from the Company's members from these leases was \$488,725 and \$291,461 for the years ended December 31, 2009 and 2008, respectively. The future minimum lease payments required under these lease agreements for each of the succeeding five years are approximately \$825,000 each year.

### Note 7. Eligible Telecommunication Carrier

During 2005, the Company was granted Eligible Telecommunication Carrier (ETC) status by the Kentucky Public Service Commission. As an ETC, the Company receives funding from the federal Universal Service Fund (USF) to support the high cost of providing local telephone service in rural areas. USF payments amounted to \$7,045,378 and \$6,680,698 for 2009 and 2008, respectively.

### Note 8. Derivative Financial Instruments, Interest Rate Swaps

The Company entered into two interest rate swap contracts with Fifth Third Bank for the purpose of converting floating-rate interest on its long-term debt to fixed rates. The interest rate swap effectively fixed \$10,200,000 at a rate of 7.46% until February 1, 2016 and fixed \$9,000,000 at a rate of 7.20% until September 1, 2013.

Under the swap contracts, the Company pays interest at 5.71% and 4.20% on the notional amounts and receives interest at LIBOR observed monthly (0.24% at December 31, 2009). The interest rate swaps qualify as, and are designated as, cash flow hedges. The swaps are designed to hedge the risk of changes in interest payments on the notes caused by changes in LIBOR. The notional amounts do not represent actual amounts exchanged by the parties, but instead represent the amounts on which the contracts are based.

## NOTES TO FINANCIAL STATEMENTS

### Note 8. Derivative Financial Instruments, Interest Rate Swaps (Continued)

The swaps were issued at market terms so that they had no fair value or carrying value at their inception. The carrying amount of the swaps has been adjusted to their fair value at the end of the year, which because of changes in forecasted levels of LIBOR, resulted in reporting a liability for the fair value of the future net payments forecasted under the swaps. The swap contracts permit settlement prior to maturity only through termination by the Company. The settlement amounts are determined based on forecasted changes in interest rates required under fixed and variable legs of the swaps. The Company believes the settlement amounts are the best representation of the fair value of the swaps and has adjusted their carrying amounts to the settlement amounts at the end of the year.

The carrying amounts of the swaps are classified as noncurrent since management does not intend to terminate the swaps during 2010. Since the critical terms of the swaps and the notes are approximately the same, the swaps are assumed to be effective as hedges, and none of the changes in fair values are included in income. Accordingly, all of the adjustment of the swaps' carrying amount is reported as other comprehensive income or loss in the accompanying statements of members' equity. If the swaps are terminated early, the corresponding carrying amount would be reclassified into earnings. The Company does not hold or issue interest rate swaps or other financial instruments for trading purposes.



*Jones, Nale & Mattingly PLC*

**INDEPENDENT AUDITOR'S REPORT ON  
THE SUPPLEMENTARY INFORMATION**

To the Members  
East Kentucky Network, LLC  
dba Appalachian Wireless  
Prestonsburg, Kentucky 41653

Our audit was made for the purpose of forming an opinion on the basic financial statements for the years ended December 31, 2009 and 2008, taken as a whole. The supplementary information shown on pages 15 and 16 is presented for purposes of additional analysis and is not a required part of the basic financial statements. The supplementary information for the years ended December 31, 2009 and 2008, has been subjected to the auditing procedures applied in the audit of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

*Jones, Nale & Mattingly, P.C.*

Louisville, Kentucky  
February 26, 2010

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**STATEMENTS OF INCOME DETAIL**

	Year Ended December 31, 2009				
	RSA #9 Appalachian	RSA #10 Mountaineer	Fiber Ring	PCS	Totals
<b>REVENUE</b>					
Retail	\$27,227,441	\$ 17,352,651	\$ --	\$ 1,545,357	\$46,125,449
Roamer	12,256,698	4,387,287	--	133,804	16,777,789
Long distance	119,708	72,756	--	3,290	195,754
Paging	240,506	247,994	--	--	488,500
Equipment sales, cellular	1,363,757	751,079	--	84,125	2,198,961
Equipment sales, paging	66,723	27,219	--	--	93,942
Other	1,384,703	925,590	1,155,365	184,156	3,649,814
Total revenue	<u>\$42,659,536</u>	<u>\$ 23,764,576</u>	<u>\$ 1,155,365</u>	<u>\$ 1,950,732</u>	<u>\$69,530,209</u>
<b>EXPENSES</b>					
Cost of cellular service	\$ 8,635,517	\$ 5,825,794	\$ --	\$ 762,594	\$15,223,905
Cost of paging service	160,498	178,553	--	--	339,051
Cost of equipment sales, cellular	7,855,184	4,947,332	--	705,994	13,508,510
Cost of equipment sales, paging	35,917	21,106	--	--	57,023
Customer service	862,503	478,603	--	23,490	1,364,596
Billing	1,037,351	589,188	--	30,535	1,657,074
Selling	2,288,986	1,872,857	--	26,370	4,188,213
Maintenance	1,533,903	830,286	56,424	175,050	2,595,663
Utilities	490,919	289,019	42,536	77,947	900,421
Bad debts	232,507	267,438	--	(26,311)	473,634
Cell site rental	102,587	83,076	--	58,360	244,023
Taxes and licenses	222,113	145,361	55,166	23,842	446,482
Advertising	2,527,103	1,056,900	--	231,725	3,815,728
General and administrative	2,173,592	1,145,620	233,211	113,906	3,666,329
Occupancy	138,973	85,094	383,360	25,383	632,810
Depreciation	4,582,025	3,286,291	747,918	488,861	9,105,095
Amortization	288,965	438,924	32,032	79,625	839,546
Total expenses	<u>\$33,168,643</u>	<u>\$ 21,541,442</u>	<u>\$ 1,550,647</u>	<u>\$ 2,797,371</u>	<u>\$59,058,103</u>
Income from operations	<u>\$ 9,490,893</u>	<u>\$ 2,223,134</u>	<u>\$ (395,282)</u>	<u>\$ (846,639)</u>	<u>\$10,472,106</u>
<b>OTHER INCOME (EXPENSE)</b>					
Interest income	\$ 17,504	\$ 10,619	\$ 2,334	\$ 583	\$ 31,040
Interest expense	(903,773)	(498,651)	--	(22,560)	(1,424,984)
Universal Service Fund income	3,522,689	3,522,689	--	--	7,045,378
	<u>\$ 2,636,420</u>	<u>\$ 3,034,657</u>	<u>\$ 2,334</u>	<u>\$ (21,977)</u>	<u>\$ 5,651,434</u>
Net income (loss)	<u>\$12,127,313</u>	<u>\$ 5,257,791</u>	<u>\$ (392,948)</u>	<u>\$ (868,616)</u>	<u>\$16,123,540</u>

Year Ended December 31, 2008

RSA #9 Appalachian	RSA #10 Mountaineer	Fiber Ring	PCS	Totals
\$24,574,346	\$15,406,704	\$ --	\$ 226,948	\$40,207,998
9,424,434	3,125,657	--	42,024	12,592,115
131,994	81,285	--	1,017	214,296
259,547	307,130	--	--	566,677
1,492,348	689,288	--	67,303	2,248,939
20,869	14,908	--	--	35,777
<u>1,005,916</u>	<u>697,829</u>	<u>1,559,075</u>	<u>36,939</u>	<u>3,299,759</u>
<u>\$36,909,454</u>	<u>\$20,322,801</u>	<u>\$ 1,559,075</u>	<u>\$ 374,231</u>	<u>\$59,165,561</u>
\$ 7,464,380	\$ 5,305,238	\$ --	\$ 92,285	\$12,861,903
148,346	184,040	--	--	332,386
6,730,198	4,590,695	--	335,474	11,656,367
24,309	32,396	--	--	56,705
813,941	496,602	--	2,490	1,313,033
873,600	505,623	--	3,898	1,383,121
2,134,116	1,595,634	--	1,455	3,731,205
1,035,157	697,495	39,468	66,820	1,838,940
391,910	254,462	43,330	21,744	711,446
491,883	302,032	--	8,243	802,158
117,969	81,421	--	15,230	214,620
576,748	250,317	121,722	16,540	965,327
2,084,232	771,388	--	112,570	2,968,190
1,802,346	1,056,315	226,927	20,792	3,106,380
102,054	80,815	208,497	12,434	403,800
3,939,105	2,891,653	725,234	147,024	7,703,016
226,578	415,142	22,551	29,113	693,384
<u>\$28,956,872</u>	<u>\$19,511,268</u>	<u>\$ 1,387,729</u>	<u>\$ 886,112</u>	<u>\$50,741,981</u>
\$ 7,952,582	\$ 811,533	\$ 171,346	\$ (511,881)	\$ 8,423,580
\$ 21,154	\$ 31,375	\$ 3,331	\$ 163	\$ 56,023
(783,129)	(455,419)	--	(3,957)	(1,242,505)
<u>3,340,349</u>	<u>3,340,349</u>	<u>--</u>	<u>--</u>	<u>6,680,698</u>
<u>\$ 2,578,374</u>	<u>\$ 2,916,305</u>	<u>\$ 3,331</u>	<u>\$ (3,794)</u>	<u>\$ 5,494,216</u>
<u>\$10,530,956</u>	<u>\$ 3,727,838</u>	<u>\$ 174,677</u>	<u>\$ (515,675)</u>	<u>\$13,917,796</u>

**EAST KENTUCKY NETWORK, LLC  
DBA APPALACHIAN WIRELESS**

**STATEMENTS OF INCOME DETAIL (Continued)**

	Year Ended December 31, 2009				
	RSA #9 Appalachian	RSA #10 Mountaineer	Fiber Ring	PCS	Totals
<b>COST OF CELLULAR SERVICE</b>					
Roamer pass through charges	\$ 5,678,216	\$ 4,262,977	\$ --	\$ 705,222	\$10,646,415
SCB interconnection	386,915	225,033	--	8,736	620,684
Local charges	2,483,054	1,394,735	--	76,935	3,954,724
Harold interconnection	147,008	--	--	--	147,008
Wheelwright interconnection	42,154	--	--	--	42,154
GTE interconnection	82,327	80,758	--	6,213	169,298
West Liberty interconnection	120,855	--	--	--	120,855
Chapman interconnection	100,023	--	--	--	100,023
Salyersville interconnection	280,492	--	--	--	280,492
Bluefield interconnection	--	--	--	--	--
Roanoke interconnection	9,504	--	--	--	9,504
Interconnect revenue	(804,398)	(509,320)	--	(36,485)	(1,350,203)
Fiber ring interconnection	91,884	113,896	--	1,973	207,753
TGTC interconnection and DS3 charges	--	160,480	--	--	160,480
PRTC interconnection	--	97,235	--	--	97,235
West Virginia interconnection	17,483	--	--	--	17,483
	<u>\$ 8,635,517</u>	<u>\$ 5,825,794</u>	<u>\$ --</u>	<u>\$ 762,594</u>	<u>\$15,223,905</u>
<b>COST OF PAGING SERVICE</b>					
Paging maintenance	\$ 6,700	\$ 3,698	\$ --	\$ --	\$ 10,398
Salaries and benefits	32,294	48,441	--	--	80,735
Tower rent	40,841	51,413	--	--	92,254
Telephone expense	--	329	--	--	329
Expanded coverage costs	--	1,596	--	--	1,596
Interconnection charges	35,280	29,613	--	--	64,893
Office and billing expense	42,935	30,372	--	--	73,307
Other	2,448	13,091	--	--	15,539
	<u>\$ 160,498</u>	<u>\$ 178,553</u>	<u>\$ --</u>	<u>\$ --</u>	<u>\$ 339,051</u>

Year Ended December 31, 2008

RSA #9 Appalachian	RSA #10 Mountaineer	Fiber Ring	PCS	Totals
\$ 4,949,474	\$ 3,595,547	\$ --	\$ 77,604	\$ 8,622,625
237,395	144,905	--	532	382,832
2,401,115	1,387,166	--	18,826	3,807,107
134,062	--	--	--	134,062
37,412	--	--	--	37,412
62,621	63,402	--	--	126,023
46,578	--	--	--	46,578
67,775	21,616	--	161	89,552
154,146	82,148	--	658	236,952
300	--	--	--	300
13,626	--	--	--	13,626
(715,726)	(453,368)	--	(5,653)	(1,174,747)
75,602	121,000	--	157	196,759
--	171,590	--	--	171,590
--	171,232	--	--	171,232
--	--	--	--	--
<u>\$ 7,464,380</u>	<u>\$ 5,305,238</u>	<u>\$ --</u>	<u>\$ 92,285</u>	<u>\$12,861,903</u>

\$ 256	\$ 384	\$ --	\$ --	\$ 640
30,752	46,129	--	--	76,881
45,095	75,005	--	--	120,100
--	131	--	--	131
--	998	--	--	998
33,211	28,094	--	--	61,305
38,462	22,945	--	--	61,407
570	10,354	--	--	10,924
<u>\$ 148,346</u>	<u>\$ 184,040</u>	<u>\$ --</u>	<u>\$ --</u>	<u>\$ 332,386</u>

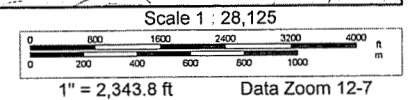
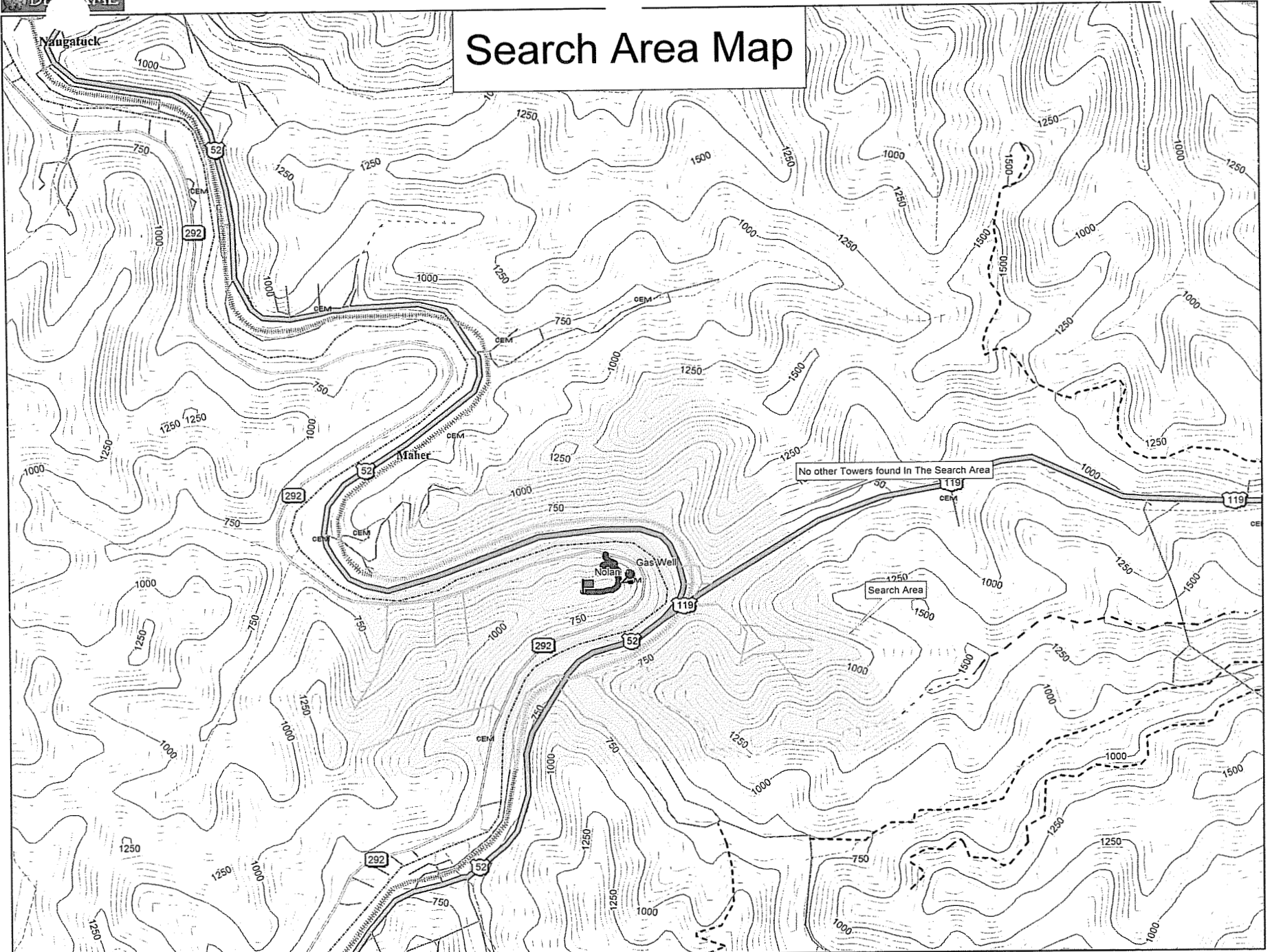
## Directions to Nolan Tower Site

From the Courthouse located in Inez Ky. Take Hwy 40 East 8.9 miles to the junction of route 40 and Hwy 292 . Turn right onto Hwy 292 and continue on for 11 miles to Tower sign located on right of road. Blue and white ribbon marks the proposed road to the site. On the site is another sign marking the location.

Directions were prepared by  
Marty Thacker  
Appalachian Wireless  
606-634-9505 Cell  
606-785-2203 Office  
[m.thacker@tgtel.com](mailto:m.thacker@tgtel.com) E mail



# Search Area Map



THIS DEED OF CONVEYANCE, made and entered into this the 17<sup>th</sup> day of Feb, 2011, by and between MARGARET PREECE, (widow) of 11191 11127 <sup>cop</sup>

Riverfront Road, Turkey Creek, Kentucky, party of the first part and herein below referred to as "GRANTOR," and EAST KENTUCKY NETWORK, LLC, d/b/a APPALACHIAN WIRELESS, of 101 Technology Trail, Ivel, Kentucky 41642, party of the second part and herein below referred to as "GRANTEE" (the in-care of tax mailing address for the current tax year is c/o EAST KENTUCKY NETWORK, LLC of 101 Technology Trail, Ivel, Kentucky 41642.

#### W-I-T-N-E-S-S-E-T-H

That for and in consideration of the sum of Five Thousand Dollars (\$5,000), cash in hand paid by the GRANTEE unto the GRANTOR, the receipt of which is hereby acknowledged, GRANTOR does hereby sell and convey to the GRANTEE, a certain tract of land located on the waters of the Tug Fork of the Big Sandy River in Martin County, Kentucky and more particularly described as follows:

Unless stated otherwise, any monument referred to herein as a "Re-Bar with Cap" is a set 1/2" Re-Bar with Cap, 18' inches in length, with a yellow plastic cap stamped Summit Engineering, L.S. #2661. All bearings stated herein are referred to the Kentucky South State Plane Coordinate System NAD 1983.

Beginning at a set Re-Bar and Cap on the ridge North of the confluence of Miller Creek and the Tug Fork of the Big Sandy River and having Kentucky South State Plane Coordinates of N-2,178,787.86 E-2,632,822.51; Thence, serving the land Margaret Preece (D.B. 124 P. 621) and running down the hill N 28°36'18" W a distance of 74.99 to a Re-Bar and Cap; Thence, around the hill with the remaining land of Margaret Preece N 61°23'32" E a distance of 150.00' to a set Re-Bar and Cap; Thence, up the hill S 28°36'22" E a distance of 75.00' to a set Re-Bar and Cap on the ridge; Thence, down the hill S 28°36'21" E a distance of 75.00' to a

set Re-Bar and Cap; Thence, around the hill S 61°23'33" W a distance of 150.00' to a set Re-Bar and Cap; Thence, up the hill N 28°36'18" W a distance of 75.00 to the point of beginning and containing 22,498.53 square feet or 0.52 acres more or less according to a survey conducted by personnel under the direct supervision of Steven E. Haywood, PLS #2661 with Summit Engineering on the dates of April 9 and 13, 2010 and being a portion of the tract of land conveyed to Margaret Preece and Monty Preece, JR., her husband, now deceased, by Bessie Ellen Brewer and Benjamin Brewer, her husband, by deed dated January 23, 1996 which is of record in Deed Book 124 Page 621 in the records of the Marin County Court Clerk's office.

See also the attached Plat Map/Survey for further reference.

Grantor also conveys herein to Grantee, its successors and assigns and any third parties necessary to assist/accomplish Grantee's business purposes herein, a right-of-way easement for ingress and egress across Grantor's property for all purposes reasonably necessary to Grantee's business, including, but not limited to, the right to construct and maintain a roadway across Grantor's property, construct and maintain transmission towers, power lines and poles, any and all utility lines such as electric, telephone, or fiber cables, and all other requisite appurtenances necessary to accomplish Grantee's business purposes.

**TO HAVE AND TO HOLD** unto the party of the second part together with all the appurtenances thereunto belonging unto the GRANTEE, its successors and assigns, with Covenants of **GENERAL WARRANTY** of Title.

**IN TESTIMONY WHEREOF**, the GRANTOR has hereunto subscribed her name all as of the day and year first above written.

Grantors:

  
MARGARET PREECE

**CERTIFICATE OF CONSIDERATION**

The undersigned individuals do hereby certify, pursuant to KRS Chapter 382, that the above-stated consideration in the amount of \$5,000.00, is the true, correct and full consideration paid for the property herein conveyed. We further certify our understanding that falsification of the consideration or sale price of the property is a Class D Felony, subject to one to five years imprisonment and fines up to \$10,000.00.

**Grantor:**

Margaret Preece  
MARGARET PREECE

**Grantee:**

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

BY: Samuel F. Polunette

Its General Manager / CEO

STATE OF Kentucky  
COUNTY OF Johnson

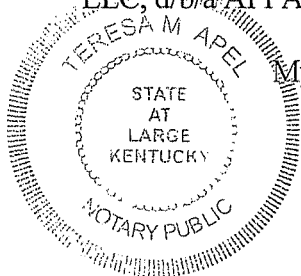
The foregoing Instrument and Certificate of Consideration was duly subscribed, sworn to and acknowledged before me this 17, day of February, 2011, by MARGARET PREECE.

My Commission expires: 1-24-13.

Candi Price  
NOTARY PUBLIC

STATE OF Kentucky  
COUNTY OF Floyd

The foregoing Certificate of Consideration was duly subscribed, sworn to and acknowledged before me this 17 day of February, 2011, by Gerald Robinette for and on behalf of EAST KENTUCKY NETWORK, LLC, d/b/a APPALACHIAN WIRELESS, as its General Manager/CEO.



My Commission expires: June 22, 2013.

Teresa M. Apel  
NOTARY PUBLIC

THIS INSTRUMENT WAS PREPARED BY:

\_\_\_\_\_  
SAM A. CARTER, ESQ.  
SMITH, THOMPSON & CARTER, PLLC  
P. O. BOX 1079  
PIKEVILLE, KY 41502  
(606) 432-2156

Grid North  
Kentucky South State Plane  
NAD 1983

Margaret Preece, Widow  
D.B. 124 P. 621

Margaret Preece, Widow  
D.B. 124 P. 621

Note: \* Use sweeps in conduit for all turns

\* Conduits shall be placed 3.25' outside concrete slab

- The proposed tower has been located using a Trimble R8/GNSS GPS receiver.
  - State Plane Coordinates: N: 2,178,853.19 NAD 83  
E: 2,632,904.822
  - MSL: 1021'
  - Precision: Horizontal = 0.10 FEET - Precision: vertical = .31 FEET
- Property line information from survey by Summit Engineering and set in the field.

Structure Layout Table

LINE	Azimuth	DISTANCE
L1	278°02'27"	46.29'
L2	267°18'26"	62.41'
L3	266°32'42"	65.90'
L4	260°17'47"	85.24'
L5	255°01'50"	61.12'
L6	254°35'58"	37.78'
L7	253°31'53"	67.91'
L8	251°50'41"	77.69'
L9	251°17'06"	81.61'
L10	249°50'02"	56.39'
L11	245°57'11"	66.44'
L12	245°13'03"	76.40'

LAT: 37° 45' 45.42488"  
LON: 82° 18' 57.62539"

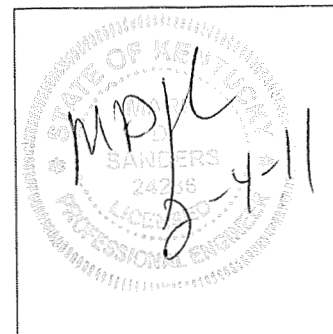
NAD 83 KY South Zone  
N: 2,178,853.193  
E: 2,632,904.82  
Elev. 1016+/-

N: 2,178,859.68  
E: 2,632,954.20

Legend

- ▲ Proposed Tower
- Boundary Line
- Existing Contours
- Regrade Contours

Mark Sanders, PE #24236  
131 Summit Drive  
Pikeville, KY 41501  
606-432-1447



Engineers Seal

East Kentucky Network d/b/a Appalachian Wireless 101 Technology Trail, Ivel, KY 41642			SUMMIT ENGINEERING, INC. 131 SUMMIT DRIVE PIKEVILLE, KY. 41501 (606) 432-1447	
Site Survey/Structural Location Margaret Preece, Tract Martin County, KY Near Nolan, WV			LEXINGTON, KY BRUNDY, VA LOBAN, WV CHARLESTON, WV HAZARD, KY	
Scale: 1"=10'	Drawn By:	Chk By:	Apprvd. By:	PER. NO:
Plot Date: 04 FEBRUARY 2011 - 10:05 AM			ATT:	
File Name: Z:\East Ky Network\Nolan Tower\Site Survey _Str Location-1.dwg				

Excavate to  
1016

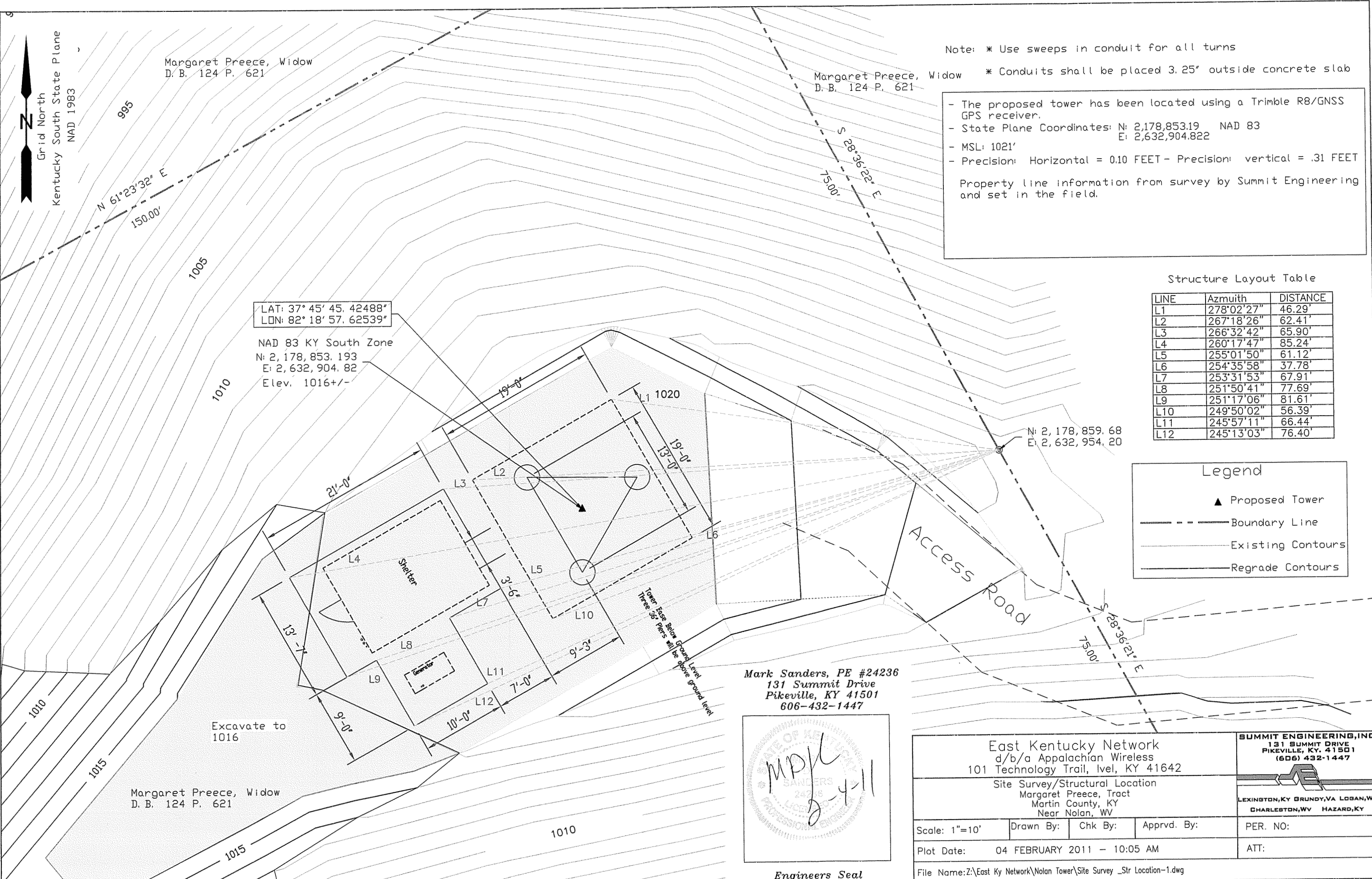
Margaret Preece, Widow  
D.B. 124 P. 621

Access Road

Tower Base Below Ground Level  
Three 36" Piers will be above ground level

Shelter

Generator



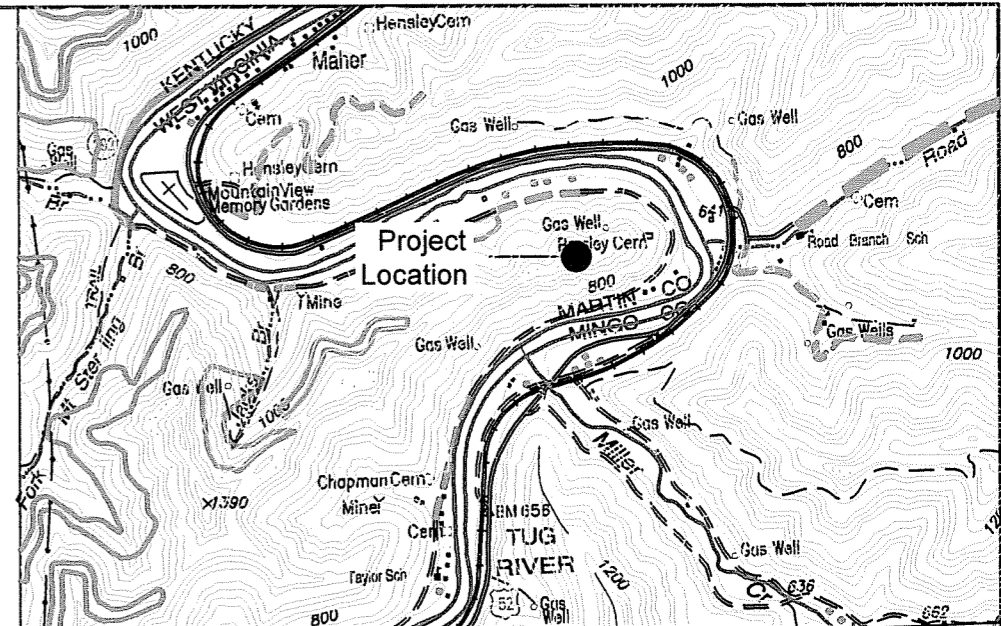


Grid North  
Kentucky South State Plane  
NAD 1983

**Owner Information**  
Margaret Preece  
11127 River Front Road  
Turkey Creek, KY 41570  
**Client Information**  
East Kentucky Network  
Address in Title Block

**Note;**  
Topography of the area surrounding the tower site is rowing hill terrain with slopes of 27% plus or minus and forest covered.  
**Note:** proposed tower site "IS NOT" in the 100 year flood hazard area and has a average elevation of 1000'+/-  
The tract of land shown hereon is situated on the waters of the Tug Fork of the Big Sandy River, Martin County, Kentucky

Summit Engineering, Inc. makes no warranty as to the title or ownership



**Vicinity Map**  
Not to Scale

The proposed tower shown hereon is on a portion of the tract of land conveyed to Margaret Preece by Bessie Ellen Brewer by deed which is of record in Deed Book 124 Page 621 of the records of the Martin County Court Clerk.

Property lines shown hereon are based on a partial survey of the Margaret Preece property, information from the Martin County P.V.A. office and observations in the field.

- Property Information**
- (A) Margaret Preece  
11127 Riverfront Road  
Turkey Creek, KY 41570  
D B 124 P 621  
PVA #068-00-00-003 00
  - (B) Wima Sue Jarvis  
Route 1 Box 82  
Williamson, West Virginia  
D B 138 P 116  
PVA #068-00-00-006 00
  - (C) Jimmy & Dixie Bentley  
HC 61 Box 1160  
Turkey Creek, KY 41570  
D B 126 P 241  
PVA #068-00-00-010 00
  - (D) Dixie Gillman  
HC 61 Box 1160  
Turkey Creek, KY 41570  
D B 165 P 617  
PVA#068-00-00-010 01
  - (E) William & Crystal Bowen  
P O Box 721  
Warfields, KY 41267  
D B 165 P 306  
PVA #068-00-00-012 00
  - (F) Jarry Maynard  
HC61 Box 1045  
Turkey Creek Creek, KY 41570  
D B 123 P 683  
PVA #068-00-00-013 00

**Utility Contacts**

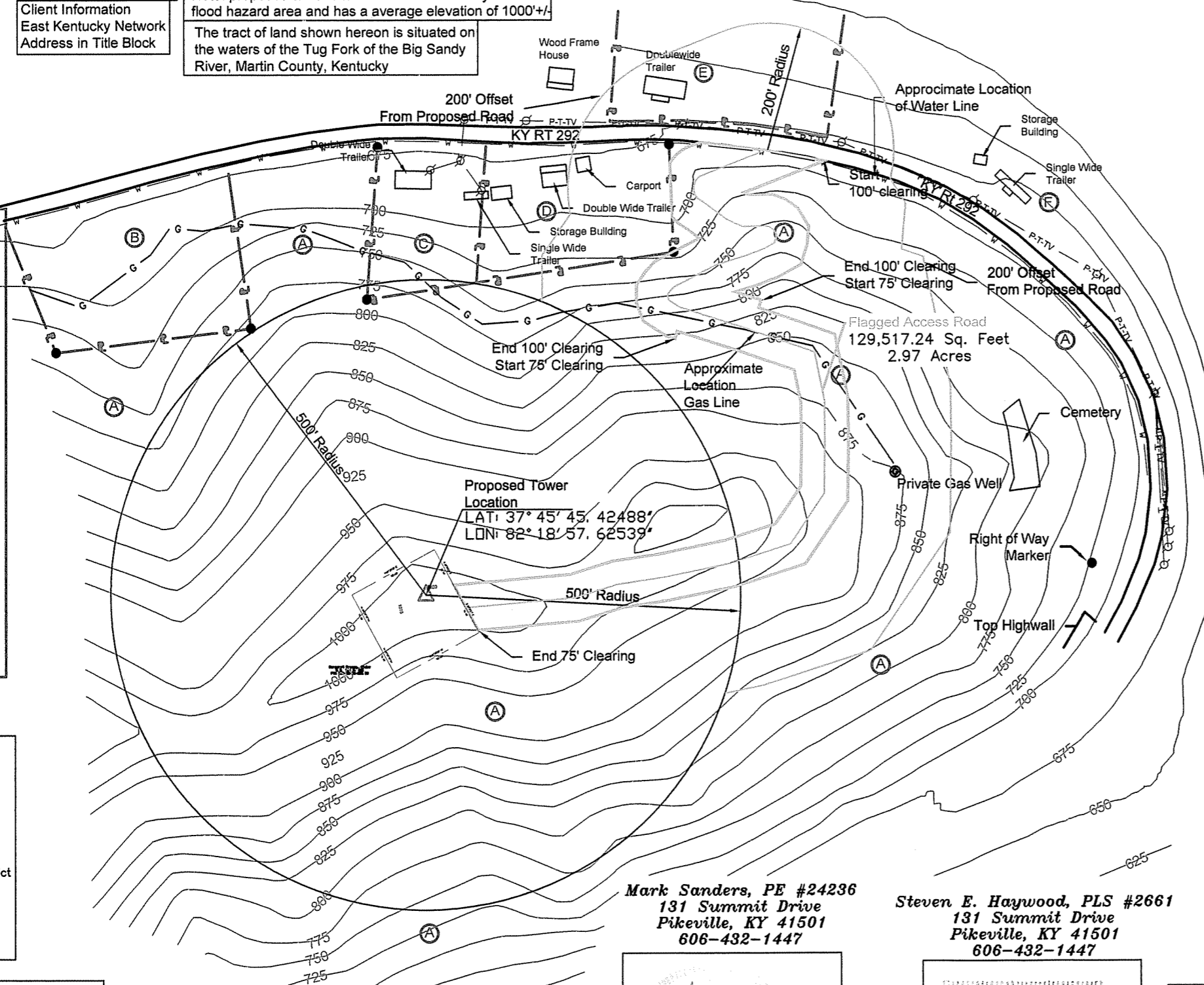
**Telephone Service:**  
AT & T  
Phone 888-757-6500  
Phone 888-620-6000

**Electric:**  
American Electric Power  
Phone 1-877-237-2886

**Water & Gas Service:**  
Martin County Water District  
Highway 40  
Inez, KY 41224  
Phone 606-298-3885

**Television Service**  
SuddenLink  
Phone 877-778-2486

**Note;**  
Access to the site form the junction of KY Rt 468 and 292. Take KY RT. 292 North from the junction of KY RT 468 and KY RT 292 which is near the Martin County and Pike County Bourder. Take 292 North for about 2.65 miles more or less to the access road on the left.



Area to be cleared for access road - 2.97 acres

**Legend**

⊙	1/2" re-bar 18' inches in length set with a plastic cap stamped Summit Engineering, L.S. #2661 unless noted otherwise.
---	Boundary line - This Survey
---	Property line from PVA Office
x-x	Fence Line
w-w	Water Line
g-g	Gas Line
e-e	Electric Line
t-t	Telephone Line
P-T-TV	Combination Electric, Telephone, Television
P-TV	Combination Electric and Telephone
(A)	Property Information
⊕	Utility Pole
△	Proposed Tower Location

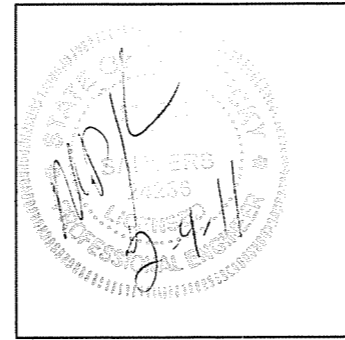
**Certification**

I hereby certify that information depicted by this map is correct to the best of my knowledge and is in accordance with the record data as found in the office of the Property Valuation Administrator of Martin County, Kentucky, 4/5/10

*Steven E. Haywood* 2-4-11  
Steven E. Haywood, PLS # 2661 Date

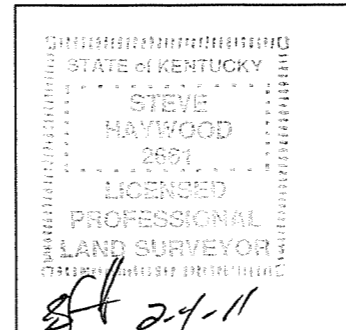
Adjoining land owners listed are based on Property Valuation Administration (PVA) records issued by a representative from Martin County, to be in compliance with all statutory and regulatory requirements before the Kentucky Public Service Commission and for telecommunication use only.

**Mark Sanders, PE #24236**  
131 Summit Drive  
Pikeville, KY 41501  
606-432-1447



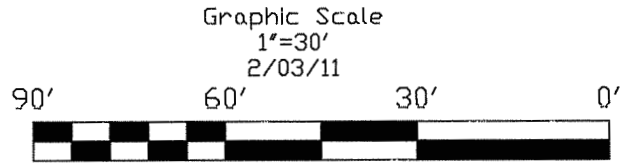
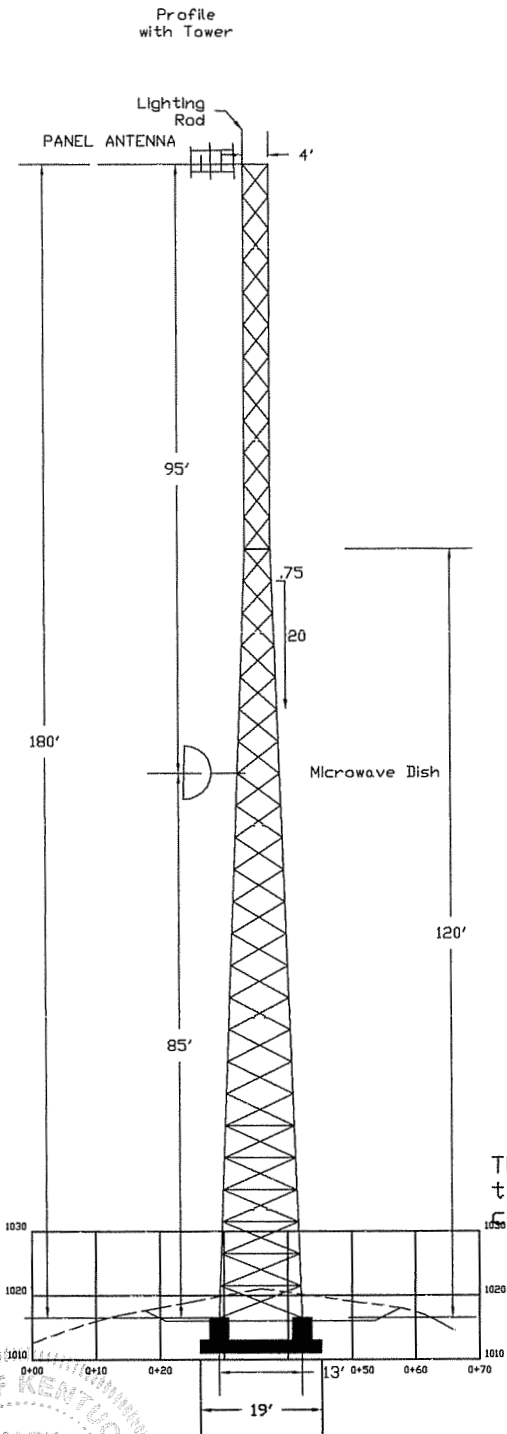
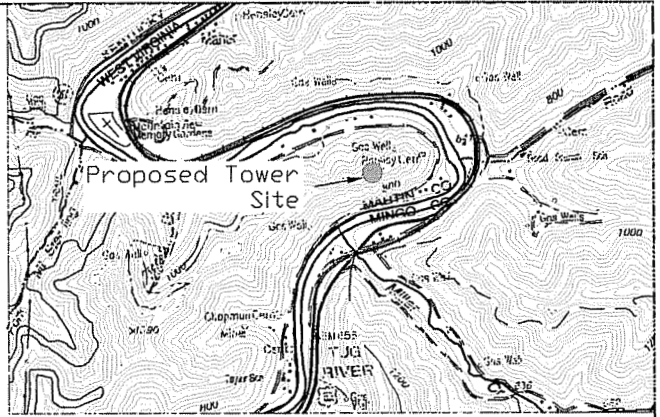
Engineers Seal

**Steven E. Haywood, PLS #2661**  
131 Summit Drive  
Pikeville, KY 41501  
606-432-1447



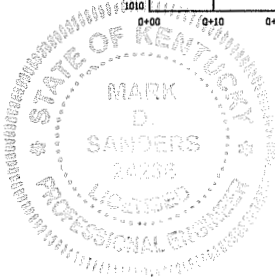
Surveyors Seal

East Kentucky Network d/b/a Appalachian Wireless 101 Technology Trail, Ivel KY 41642				SUMMIT ENGINEERING, INC 131 SUMMIT DRIVE PIKEVILLE, KY. 41501 (606) 432-1447	
Site Plan Map Nolan Tower Site Martin County, Kentucky				LEXINGTON, KY BRUNDY, VA LOBAN, WV CHARLESTON, WV HAZARD, KY	
Scale: 1"=200'	Drawn By: SEH	Chk By:	Apprvd. By:	PER. NO:	
Plot Date: 04 FEBRUARY 2011 - 9:01 AM				ATT:	
File Name: Z:\East Ky Network\Nolan Tower\proposed-road-layout_5.dwg					




This is a profile sketch of the tower indicating the proposed antenna and dish elevations. No design criteria was considered in the preparation of this drawing.

Note: This is a vertical sketch of the tower indicating the proposed antenna and dish elevations. No design criteria was considered in the preparations of this drawing.



*MDSE* 24236 2-4-11  
 Mark D. Sanders P.E. Date

DATE: 2/3/11	SCALE: 1"=30'	East Kentucky Network d/b/a/ Appalachian Wireless 101 Technology Trail, Ivel, KY 41642 Proposed Site Plan and Structure Location Nola Tower. Appalachian Wireless	<b>SUMMIT ENGINEERING, INC</b> 131 SUMMIT DRIVE PIKEVILLE, KY. 41501 (606) 432-1447  LEXINGTON, KY BRUNDY, VA LOBAN, WV CHARLESTON, WV HAZARD, KY
DRAWN BY: SEh			