

**CASE**

**NUMBER:**

99-446

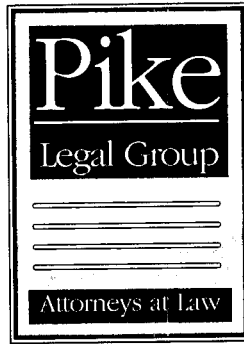
HISTORY INDEX FOR CASE: 1999-446  
 KENTUCKY CGSA, INC., DBA BELLSOUTH MOBILITY, WESTEL-MILWAUKEE, BSC  
 Construct  
 CELL SITE - 606 CLARK LANDING ROAD - MORGANTOWN, BUTLER COUNTY

AS OF : 05/10/00

IN THE MATTER OF THE APPLICATION OF CROWN COMMUNICATION INC.  
 AND WESTEL-MILWAUKEE COMPANY, INC. FOR ISSUANCE OF A  
 CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT  
 A WIRELESS COMMUNICATIONS FACILITY AT 606 CLARK LANDING  
 ROAD, MORGANTOWN, KY 40004

IN THE WIRELESS COMMUNICATIONS LICENSE AREA  
 IN THE COMMONWEALTH OF KENTUCKY  
 IN THE COUNTY OF BUTLER  
 SITE NAME: NACTCHER PARKWAY

SEQ NBR	ENTRY DATE	REMARKS
0001	11/10/1999	Application.
0002	11/12/1999	Acknowledgement letter.
0003	11/17/1999	No deficiencies letter.
M0001	12/10/1999	CROWN COMMUNICATIONS DAVID PIKE-MOTION TO SUBMIT FOR EXPIDITED DECISION WITHOUT PUBLIC HEAR
0004	03/09/2000	Final Order approving cell tower construction on 3/9/2000.
M0002	04/24/2000	DAVID A. PIKE/CROWN COMMUNICATIONS-FEDERAL AVIATION AND ADMIN & KY AIRPORT ZONING APPROVALS



RECEIVED

APR 24 2000

PUBLIC SERVICE  
COMMISSION

April 22, 2000

Susan G. Hutcherson  
Filings Division Manager, Docket Branch  
Kentucky Public Service Commission  
P.O. Box 615  
Frankfort, KY 40602

Re: Applicant: Crown Communication, Inc.  
PSC Case No.: 99-446  
Crown Site No.: KY276  
Crown Site Name: Natcher Parkway  
Federal Aviation Administration Approval  
Kentucky Airport Zoning Commission Approval

Dear Susan:

Please accept this letter and the attached documents as an official filing in the above-referenced Public Service Commission action. The Certificate of Public Convenience and Necessity issued in this action called for the Applicant to file a copy of the Federal Aviation Administration and Kentucky Airport Zoning Commission approvals once they were obtained. Copies of this relevant documentation are attached to this letter for inclusion in the official case file.

If you have any questions or comments concerning this matter, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "David A. Pike".

David A. Pike  
Regional Counsel, Crown Communication Inc.  
E-mail: pikelegal@aol.com

DAP/slb

Enclosures





125 Holmes Street  
Frankfort, KY 40622

fax: (502) 564-7953  
No.: AS-016-BWG-99-265

*800355/KY Natcher Pkwy.*

January 14, 2000

APPROVAL OF APPLICATION

FEB 03 2000

APPLICANT:  
CROWN COMMUNICATION INC  
SHAWN DUNLAP, REGULATORY COORDINATOR  
375 SOUTH POINTE BOULEVARD  
Cannonsburg, PA 15317

SUBJECT: AS-016-BWG-99-265

STRUCTURE: Antenna Tower  
LOCATION: Needmore, KY  
COORDINATES: 37°06'19.18"N / 86°38'19.62"W  
HEIGHT: 425' AGL/966' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct (425' AGL/966' AMSL) Antenna Tower near Needmore, KY 37°06'19"N, 86°38'20"W.

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

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

Dual obstruction lighting is required in accordance with 602 KAR 50:100..

Ronald Bland, Administrator

Federal Aviation Administration  
Southern Region, ASO-520  
P.O. Box 20636  
Atlanta, GA 30320

800355/<sup>KY</sup>NATCHER PIKEWAY  
AERONAUTICAL STUDY  
No: 99-ASO-5354-OE

ISSUED DATE: 11/17/99

C/O S.DUNLAP, CROWN COMMUNICATIONS  
BELLSOUTH MOBILITY  
375 SOUTHPOINTE BLVD  
CANONSBURG, PA 15317

RECEIVED  
DEC 01 1999

BY: EC

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

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

Description: NEW ANTENNA TOWER  
SEE ATTACHED FREQUENCIES  
Location: NEEDMORE KY  
Latitude: 37-06-19.18 NAD 83  
Longitude: 086-38-19.62  
Heights: 425 feet above ground level (AGL)  
966 feet above mean sea level (AMSL)

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

-As a condition to this determination, the structure should be marked and/or lighted in accordance with FAA Advisory Circular 70/7460-1J, Obstruction Marking and Lighting, Chapters 4, 8 (M-Dual), & 13.

-It is required that the enclosed FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

N/A At least 10 days prior to start of construction  
(7460-2, Part I)

X Within 5 days after construction reaches its greatest height  
(7460-2, Part II)

-See attachment for additional condition(s) or information.

While the structure does not constitute a hazard to air navigation, it would be located within or near a military training area and/or route.

This determination expires on 05/17/01 unless:

- (a) extended, revised or terminated by the issuing office or
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case the determination expires on the date prescribed by the FCC for completion of construction or on the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

-As a result of the structure being critical to flight safety, it is required that the FAA be kept apprised as to the status of this project. Failure to respond to periodic FAA inquiries could invalidate this determination.

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

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

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

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

If we can be of further assistance, please contact our office at 404-305-5581. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 99-ASO-5354-OE.

Wade Carpenter  
Wade Carpenter  
Specialist, Airspace Branch

(DNE)

7460-2 Attached  
Attachment

ATTACHMENT

AERONAUTICAL STUDY  
NO. 99-ASO-5354-OE

FREQUENCIES

33-54 MHz	100 Watts
72-73 MHz	100 Watts
144-162 MHz	250 Watts
220-222 MHz	100 Watts
450-502 MHz	250 Watts
806-880 MHz	250 Watts
880-894 MHz	400 Watts
890-960 MHz	500 Watts
1,500 MHz	500 Watts
1,870-1,885 MHz	400 Watts
1,900-2,000 MHz	500 Watts
5,000-6,500 MHz	100 Watts
10,000-11,000 MHz	100 Watts
18,000 MHz	100 Watts
21,000 MHz	100 Watts
24,000 MHz	100 Watts
38,000 MHz	100 Watts



COMMONWEALTH OF KENTUCKY  
**PUBLIC SERVICE COMMISSION**  
211 SOWER BOULEVARD  
POST OFFICE BOX 615  
FRANKFORT, KY. 40602  
(502) 564-3940

CERTIFICATE OF SERVICE

RE: Case No. 1999-446  
KENTUCKY CGSA, INC., DBA BELLSOUTH MOBILITY, WESTEL-MILWAUKEE, BSC

I, Stephanie Bell, Secretary of the Public Service Commission, hereby certify that the enclosed attested copy of the Commission's Order in the above case was served upon the following by U.S. Mail on March 9, 2000.

See attached parties of record.

*Stephanie J. Bell*

Secretary of the Commission

SB/lc  
Enclosure



Steve Skinner  
Manager of External Affairs  
Kentucky CGSA, Inc., dba Bellsouth  
Mobility, Westel-Milwaukee, BSCC of IN  
1100 Peachtree Street  
Room 809  
Atlanta, GA. 30309

Lloyd D. McCarthy  
Crown Communication Inc.  
Commonwealth Business Center  
11001 Bluegrass Parkway, Suite 330  
Louisville, KY. 40299

Richard Guittar  
Director-Operations/Engineering  
BellSouth Mobility  
1650 Lyndon Farms Court  
Louisville, KY. 40223

Honorable David A. Pike  
Attorney for Crown Communication Inc  
Pike Legal Group  
200 South Buckman Street  
P. O. Box 369  
Shepherdsville, KY. 40165 0369

Honorable Sam McNamara  
Attorney for Westel-Milwaukee  
McNamara & Jones  
P. O. Box 916  
315 High Street  
Frankfort, KY. 40602

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF CROWN COMMUNICATION INC. )  
AND WESTEL-MILWAUKEE COMPANY, INC. FOR )  
ISSUANCE OF A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY AT 606 ) CASE NO.  
CLARK LANDING ROAD, MORGANTOWN, KY ) 1999-446  
40004 IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF BUTLER )  
SITE NAME: NATCHER PARKWAY )  
SITE NUMBER: KY276 )

O R D E R

On November 10, 1999, Crown Communication Inc. ("Crown") and Westel-Milwaukee Company, Inc. d/b/a BellSouth Mobility, Inc. (collectively, the "Applicants") filed an application seeking a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility. The proposed facility consists of a guyed antenna tower, with attached antennas, not to exceed 470 feet in height. The proposed facility is to be located at 606 Clark Landing Road, Morgantown, Butler County, Kentucky. The coordinates for the proposed facility are North Latitude 37° 6' 19.18" by West Longitude 86° 38' 19.62".

Crown has provided information regarding the structure of the tower, safety measures, and antenna design criteria for the proposed facility. Based upon the application, the design of the tower and foundation conforms to applicable nationally

recognized building standards, and the plans have been certified by a Licensed Professional Engineer.

Pursuant to 807 KAR 5:063, the Applicant has notified the Butler County Judge/Executive of the proposed construction. To date, no comments have been filed by the County Judge/Executive. The Applicants have filed applications with the Federal Aviation Administration ("FAA") and the Kentucky Airport Zoning Commission ("KAZC") seeking approval for the construction and operation of the proposed facility. Both decisions are pending.

The Applicants have filed evidence of the appropriate notices provided pursuant to 807 KAR 5:063. The notices solicited any comments and informed the recipients of their right to request intervention. To date, no public comments have been filed with the Commission.

Pursuant to KRS 278.280, the Commission is required to determine proper practices to be observed when it finds, upon complaint or on its own motion, that the facilities of any utility subject to its jurisdiction are unreasonable, unsafe, improper, or insufficient. To assist the Commission in its efforts to comply with this mandate, Crown should notify the Commission if it does not use this antenna tower to provide service in the manner set out in its application and this Order. Upon receipt of such notice, the Commission may, on its own motion, institute proceedings to consider the proper practices, including removal of the unused antenna tower, which should be observed by Crown.

The Commission, having considered the evidence of record and being otherwise sufficiently advised, finds that the Applicants have demonstrated that a facility is necessary

to provide adequate utility service and therefore should be granted a Certificate of Public Convenience and Necessity to construct the proposed facility.

IT IS THEREFORE ORDERED that:

1. Crown is granted a Certificate of Public Convenience and Necessity to construct a wireless telecommunications facility. The facility consists of a guyed antenna tower, with attached antennas, not to exceed 470 feet in height. The facility is to be located at 606 Clark Landing Road, Morgantown, Butler County, Kentucky. The coordinates for the facility are North Latitude 37° 6' 19.18" by West Longitude 86° 38' 19.62".

2. The Applicants shall file a copy of the final decisions regarding their pending FAA and KAZC applications for the proposed construction within 10 days of receiving these decisions.

3. Crown shall immediately notify the Commission in writing, if, after the antenna tower is built and utility service is commenced, the tower is not used for a period of 3 months in the manner authorized by this Order.

Done at Frankfort, Kentucky, this 9th day of March, 2000.

By the Commission

ATTEST:

  
Executive Director



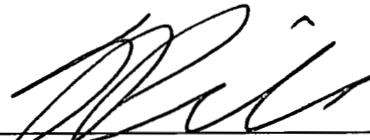
Application for a CPCN is a vital element of the Provider's wireless communications network, and is necessary to provide service in accordance with provisions of its license with the Federal Communications Commission.

4. The county where the WCF is located has not registered for the right to regulate cell sites with the PSC, and has not adopted planning and zoning regulations in accordance with KRS Chapter 100.

5. The Application in this administrative proceeding was originally filed with the PSC on November 10, 1999, 29 days before the submission of this Motion.

WHEREFORE, Crown and the Provider, Applicants herein, by counsel, urge the PSC to promptly grant a CPCN in accordance with the terms of the Application in this proceeding without public hearing.

Respectfully submitted,



---

David A. Pike  
Pike Legal Group  
200 S. Buckman Street  
Post Office Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
E-Mail: pikelegal@aol.com  
ATTORNEY FOR CROWN COMMUNICATION INC.

and

Sam G. McNamara  
McNamara & Jones  
315 High Street  
P.O. Box 916  
Frankfort, KY 40602  
Telephone: (502) 875-8808  
ATTORNEY FOR WESTEL-MILWAUKEE COMPANY, INC.



COMMONWEALTH OF KENTUCKY  
**PUBLIC SERVICE COMMISSION**

730 SCHENKEL LANE  
POST OFFICE BOX 615  
FRANKFORT, KY. 40602  
(502) 564-3940

November 17, 1999

To: All parties of record

RE: Case No. 99-446

KENTUCKY CGSA, INC., DBA BELLSOUTH MOBILITY, WESTEL-MILWAUKEE, BSC

The Commission staff has reviewed your application in the above case and finds that it meets the minimum filing requirements. Enclosed please find a stamped filed copy of the first page of your filing. This case has been docketed and will be processed as expeditiously as possible.

If you need further assistance, please contact my staff at 502/564-3940.

Sincerely,

A handwritten signature in cursive script that reads "Stephanie Bell".

Stephanie Bell  
Secretary of the Commission

SB/hv  
Enclosure

Steve Skinner  
Manager of External Affairs  
Kentucky CGSA, Inc., dba Bellsouth  
Mobility, Westel-Milwaukee, BSCC of IN  
1100 Peachtree Street  
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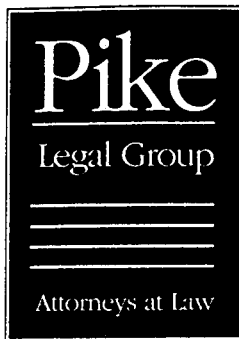
Lloyd D. McCarthy  
Crown Communication Inc.  
Commonwealth Business Center  
11001 Bluegrass Parkway, Suite 330  
Louisville, KY. 40299

Richard Guittar  
Director-Operations/Engineering  
BellSouth Mobility  
1650 Lyndon Farms Court  
Louisville, KY. 40223

Honorable David A. Pike  
Attorney for Crown Communication Inc  
Pike Legal Group  
200 South Buckman Street  
P. O. Box 369  
Shepherdsville , KY. 40165 0369

Honorable Sam McNamara  
Attorney for Westel-Milwaukee  
McNamara & Jones  
P. O. Box 916  
Frankfort, KY. 40602





**FILED**  
NOV 10 1999  
PUBLIC SERVICE  
COMMISSION

November 9, 1999

**VIA HAND DELIVERY**

Helen C. Helton  
Executive Director  
Kentucky Public Service Commission  
730 Schenkel Lane  
P. O. Box 615  
Frankfort, Kentucky 40602

Re: Request for Waiver for From Requirements for Duplicate Initial Filing  
PSC Case Number: 99-446  
Site Name: Natcher Parkway  
Site Number: KY 276

Dear Helen:

Please accept this letter as our formal application for waiver of the requirement that an original and ten (10) copies of an initial application for issuance of Certificate of Public Convenience and Necessity be filed with the Kentucky Public Service Commission ("PSC") in wireless communications facilities cases. As is the normal custom, we request that we be allowed to file an original and five (5) copies of our application for Certificate of Public Convenience and Necessity.

Thank you for your courtesy. If you have any questions or comments concerning this matter, please do not hesitate to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. A. Pike".

David A. Pike  
Regional Counsel for Crown Communication Inc.

DAP:slb

For Inclusion in Application File





COMMONWEALTH OF KENTUCKY  
**PUBLIC SERVICE COMMISSION**  
730 SCHENKEL LANE  
POST OFFICE BOX 615  
FRANKFORT, KENTUCKY 40602  
www.psc.state.ky.us  
(502) 564-3940  
Fax (502) 564-3460

**Ronald B. McCloud, Secretary**  
**Public Protection and**  
**Regulation Cabinet**

**Helen Helton**  
**Executive Director**  
**Public Service Commission**

**Paul E. Patton**  
**Governor**

November 12, 1999

To: All parties of record

RE: Case No. 99-446  
KENTUCKY CGSA, INC., DBA BELLSOUTH MOBILITY, WESTEL-MILWAUKEE  
(Construct) CELL SITE - 606 CLARK LANDING ROAD - MORGANTOWN

This letter is to acknowledge receipt of initial application in the above case. The application was date-stamped received November 10, 1999 and has been assigned Case No. 99-446. In all future correspondence or filings in connection with this case, please reference the above case number.

If you need further assistance, please contact my staff at 502/564-3940.

Sincerely,

A handwritten signature in black ink that reads "Stephanie Bell".

Stephanie Bell  
Secretary of the Commission

SB/jc



AN EQUAL OPPORTUNITY EMPLOYER M/F/D

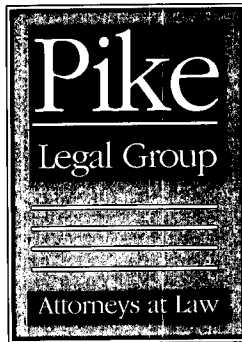
Steve Skinner  
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Honorable Sam McNamara  
Attorney for Westel-Milwaukee  
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P. O. Box 916  
Frankfort, KY. 40602



FILED  
NOV 10 1999  
PUBLIC SERVICE  
COMMISSION

November 9, 1999

RECEIVED  
NOV 10 1999  
PUBLIC SERVICE  
COMMISSION

**VIA HAND DELIVERY**

Helen C. Helton  
Executive Director  
Kentucky Public Service Commission  
730 Schenkel Lane  
P. O. Box 615  
Frankfort, Kentucky 40602

Re: Request for Waiver for From Requirements for Duplicate Initial Filing  
PSC Case Number: 99-446  
Site Name: Natcher Parkway  
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Dear Helen:

Please accept this letter as our formal application for waiver of the requirement that an original and ten (10) copies of an initial application for issuance of Certificate of Public Convenience and Necessity be filed with the Kentucky Public Service Commission ("PSC") in wireless communications facilities cases. As is the normal custom, we request that we be allowed to file an original and five (5) copies of our application for Certificate of Public Convenience and Necessity.

Thank you for your courtesy. If you have any questions or comments concerning this matter, please do not hesitate to contact me.

Sincerely,

David A. Pike  
Regional Counsel for Crown Communication Inc.

DAP:slb

For Inclusion in Application File



COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF CROWN COMMUNICATION INC. )  
AND WESTEL-MILWAUKEE COMPANY, INC. )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY AT )  
606 CLARK LANDING ROAD, MORGANTOWN, KY 40004 )  
IN THE WIRELESS COMMUNICATIONS LICENSE AREA )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF BUTLER )

CASE NO.: 99-446

RECEIVED  
NOV 10 1999  
PUBLIC SERVICE  
COMMISSION

SITE NAME: NACTCHER PARKWAY  
SITE NUMBER: KY 276

\*\*\*\*\*

Crown Communication Inc. ("Crown"), and Westel-Milwaukee Company, Inc., d/b/a BellSouth Mobility, Inc. ("Provider"), as a licensed public utility in the Commonwealth of Kentucky, hereinafter jointly referred to as "Applicants", by counsel, pursuant to (i) KRS 278.020 and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submit their Application for a Certificate of Public Convenience and Necessity ("CPCN") from the Public Service Commission of Kentucky ("Commission") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Provider with wireless telecommunications services, and other wireless service provider collocations in the area described herein.

In support of this Application, the Applicants respectfully provide and state the following information:

1. The complete names and addresses of the Applicants are:

Crown Communication Inc., a Delaware Corporation, 375 Southpointe Boulevard, Canonsburg, PA 15317, (724) 416-2000, having a local address of Commonwealth Business Center, 11001 Bluegrass Parkway, Suite 330, Louisville, Kentucky 40299, (502) 240-0044.

Westel-Milwaukee Company, Inc., d/b/a BellSouth Mobility Inc., a Georgia Corporation, 1100 Peachtree Street, Suite 14E06, Atlanta, GA 30309, having a local address of 1650 Lyndon Farms Ct., Louisville, KY 40223.

2. Crown constructs, owns, manages, maintains, and operates independent communications networks. Crown owns and manages safe, clean, and well-maintained facilities. Crown facilities do not generate smoke, odors, noise, noxious gases, vibrations, or increase traffic. Studies show that Crown's facilities will not pollute air, soil, or water, nor will they adversely affect radio or television reception or transmission. A certified copy of the Certificate of Authority issued by the Secretary of State of the Commonwealth of Kentucky and a certified copy of the Articles of Incorporation for Crown and the Provider are attached hereto as **Exhibit A**.

3. After completion of the proposed WCF, Westel-Milwaukee Company, Inc. will be the ultimate owner of the WCF, with Crown acting as ultimate sublessor to further lease or license space on said tower and the surrounding site so that other Providers may locate and operate their facilities including all required antennas and appurtenances. The proposed WCF will serve an area completely within the Provider's Federal Communications Commission ("FCC") licensed service area in the Commonwealth of Kentucky. The Provider is authorized to provide wireless services by the FCC and Commission. A copy of the Provider's FCC license to provide wireless services is attached

to this Application as part of **Exhibit A**. The proposed site is located in a manner such that other wireless communications service providers will desire to collocate on said tower, and Crown will endeavor to provide all necessary facilities to make collocation attractive to them.

4. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Provider's services to an area currently not adequately served by the Provider with increased coverage or capacity and will thereby enhance the public's access to innovative and competitive wireless telecommunications services. The WCF will provide a necessary link in the Provider's telecommunications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications licensed area. The WCF is an integral link in the Provider's network design that must be in place to provide adequate coverage to the service area.

5. Crown's construction of the described WCF is desirable because it allows for the collocation of additional wireless service providers within this portion of the Kentucky wireless communications licensed area. These services may include telecommunications, wireless data transfer and Internet services, wireless cable, paging systems, 911 service, and other new products currently being developed in the wireless industry. In addition, the WCF will be available for use by governmental agencies and providers of emergency services. The WCF will provide a necessary link in Crown's wireless infrastructure network, and Crown, as part of its business structure, will diligently pursue and encourage other wireless providers to collocate on the WCF. These services will provide increased

competition in the local Kentucky telecommunications market, which will, in turn, promote competitive pricing, quality, and coverage options to users of telecommunications services in this area. Crown's vested interest in the collocation of wireless service providers promotes the same goals for the local consumers.

6. The Applicants propose to construct a WCF at 606 Clark Landing Road, Morgantown, Kentucky 42261 (37° 06' 19.18" North latitude, 86° 38' 19.62" West longitude), in an area located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Luchen JR. and Judith Keown. The proposed WCF will consist of a 400-foot guyed tower, with an approximately 20-foot lightning arrestor attached at the top, for a total height of 420 feet.

The WCF will also include concrete foundations to accommodate the placement of the Provider's proprietary radio electronics equipment. The equipment will be housed in a prefabricated cabinet or shelter that will contain: (i) the transmitting and receiving equipment required to connect the WCF with the Provider's users in Kentucky, (ii) telephone lines that will link the WCF with the Provider's other facilities, (iii) battery back-up that will allow the Provider to operate even after a loss of outside power, and (iv) all other necessary appurtenances. The Provider's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**. Periodic inspections will be performed on the WCF in accordance with the applicable regulations or requirements of the Commission. The list of competing utilities,



corporations, or persons is attached as **Exhibit D**.

7. Reduced copies of the site development plan have been included as **Exhibit B** and **Exhibit C** of this Application. A vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Provider and future antenna mounts, has also been included as part of **Exhibit B**. Foundation design plans and a description of the standards according to which the tower was designed signed and sealed by a professional engineer registered in Kentucky is included as part of **Exhibit C**.

8. The Applicants have considered the likely effects of the installation on nearby land uses and values and have concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to collocate. The Applicants have attempted to collocate on suitable existing structures such as a telecommunications towers or other suitable structures capable of supporting the Provider's facilities. No other suitable and available collocation site was found to be located in the vicinity of the site. Information regarding the Applicants' efforts to achieve collocation in the vicinity are presented as **Exhibit E**.

9. The Applicants have conducted a preliminary aeronautical evaluation for the proposed WCF. The evaluation determined that the proposed structure height at this site meets Federal Aviation Administration ("FAA") Regulation requirements. Furthermore, FAA notice is required for the proposed construction, and lighting or marking requirements may be applicable to this facility. A copy of the FAA Application is attached as **Exhibit F**. Upon

receiving authorization from the FAA, the Applicants will forward a copy of the determination as a supplement to this Application proceeding.

10. A copy of the Kentucky Airport Zoning Commission ("KAZC") Application for the proposed WCF is attached as **Exhibit G**. Upon receiving authorization from the KAZC, the Applicants will forward a copy of the determination as a supplement to this Application proceeding.

11. The WCF will be registered with the FCC pursuant to applicable federal requirements. Appropriate required FCC signage will be posted on the site upon receipt of the tower registration number.

12. A geotechnical-engineering firm has performed soil boring(s) and subsequent geotechnical-engineering studies at the WCF site under the supervision of a professional engineer registered in the Commonwealth of Kentucky who specializes in geotechnical engineering, including subsurface exploration. The geotechnical-engineering firm has performed many such studies for the communications industry. A copy of the geotechnical-engineering report and evaluation signed and sealed by a professional engineer registered in the Commonwealth of Kentucky who specializes in geotechnical engineering, including subsurface exploration, is attached as **Exhibit H**. The name and address of the geotechnical-engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included in **Exhibit H**.

13. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit I**. The name and address of the preparer of **Exhibit J** is included in **Exhibit J**.

14. The Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the abbreviated agreement recorded with the County Clerk is attached as **Exhibit J**. Also included as part of **Exhibit J** is the portion of the full agreement demonstrating that in the case of abandonment a method is provided to dismantle and remove the cellular antenna tower, including a timetable for removal.

15. Personnel directly responsible for the design and construction of the proposed WCF are well-qualified and experienced. Pirod ("the Tower Manufacturer") performed the tower and foundation design. The Tower Manufacturer is a nationally recognized manufacturer and designer of communications towers. The Tower Manufacturer has designed and installed communications towers throughout North America. The Tower Manufacturer has assigned John R. Erichsen, a professional engineer registered in the Commonwealth of Kentucky to design the WCF. This engineer specializes in the design and engineering of guyed, self-support and monopole structures, and has extensive experience in the design and construction of projects similar to the Applicants'. These projects include the design of towers and the required foundations of many other wireless facilities. All of the designs have been signed and sealed by John R. Erichsen. The construction of the proposed WCF will be performed by Crown Network Systems, an experienced, bonded, and insured erection company. The Tower Erection Manager, Harold Harrington, will manage the tower erection. Harold Harrington is a tower installation manager for Crown and has been erecting towers for the telecommunications industry for over 8 years. All tower designs will meet or exceed applicable laws and

regulations.

16. Based on a review of Federal Emergency Management Agency Flood Insurance Rate Maps, the registered land surveyor has noted in **Exhibit B** that the proposed WCF is not located within any flood hazard area.

17. The possibility of high winds has been considered in the design of this tower. The tower has been designed and engineered by professional engineers using computer assistance and the same accepted codes and standards as are typically used for high-rise building construction. The tower has been designed to withstand a wind loading of 70 m.p.h., using the Uniform Building Code of 1991 ("UBC-91") and further modified by the 1993 Administrative Code. This tower has been designed in accordance with the Electronic Industries Association ("EIA") 222-F Standards, which have been accepted and approved by ANSI and is a nationally recognized tower design standard. Similarly, the proposed WCF design has been developed with consideration of potential ground shaking based on a negligible seismic zone of 1. Seismic loading is regarded as secondary to the wind loading.

18. The site development plan signed and sealed by a professional engineer registered in Kentucky was prepared by Robert T. Trautwen, and was designed from a survey performed by Frank Sellinger. This site development plan is drawn to a scale of no less than one (1) inch equals 200 feet, and identifies every owner of real estate within 500 feet of the proposed tower (according to the Property Valuation Administrator) and is incorporated in the survey as part of **Exhibit B**. Every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection

with the public street system is incorporated in the survey as part of **Exhibit B**.

19. Crown, on behalf of itself and the Provider, has notified every person who owns property within 500 feet of the proposed tower by certified mail, return receipt requested, of the proposed construction, along with the possibility of a temporary site being built while awaiting Commission approval. Each property owner has been given the docket number under which the proposed Application will be processed and has been informed of their right to request intervention. A list of the nearby property owners who received the notices, together with copies of the certified letters, are attached as **Exhibit K** and **Exhibit L**, respectively.

20. Crown, on behalf of itself and the Provider, has notified the Judge Executive of the county where the WCF is located by certified mail, return receipt requested, of the proposed construction. Crown included in said notice the Public Service Commission ("PSC") docket number under which the application will be processed and informed said entity of its right to request intervention. A copy of this notice is attached as **Exhibit M**.

The county where the WCF is located has not registered for the right to regulate cell sites with the PSC, and has not adopted planning and zoning regulations in accordance with KRS Chapter 100.

21. Two appropriate notice signs measuring at least two (2) feet in height and four (4) feet in width with all required language in letters of required height have been posted in a visible location on the proposed site and on the nearest public road and shall remain posted for at least two (2) weeks after filing of the Application. Copies of the postings are attached as **Exhibit N**. The location of the proposed facility has been

published in a newspaper of general circulation in the county where the WCF is located.

22. There are no residences within a 500-foot radius of the centerline of the proposed tower location. The land surrounding the WCF site is presently vacant with the balance of the remaining land consisting of raw acreage.

23. The process that was used in selecting the site for the proposed WCF by the Applicants' radio frequency engineers was consistent with the process used for selecting generally all other existing and proposed WCF facilities within the proposed network design area. Before beginning the acquisition process, the Applicants carefully evaluated the location of the required WCF for possible collocation opportunities on existing structures.

Radio frequency engineers used computer programs to evaluate the most effective coverage design for facilitating collocation potential on the proposed tower. Crown and the Provider's radio frequency engineers have combined their efforts in order to develop a highly efficient network that is designed to serve the Federal Communications Commission licensed territory without extending beyond the Provider's approved boundary. The engineers selected the optimum vicinity in terms of elevation and location to provide the best quality service to customers in the service area. A proposed coverage area was considered by the Applicants when searching for sites that would provide both (i) the coverage deemed necessary by the Provider, and (ii) the coverage deemed necessary by Crown to permit the integration of the proposed WCF into Crown's overall network design.

No suitable towers or existing structures were found in the immediate area which would meet the technical requirements for this element of the telecommunications network. A map of the area in which the tower is proposed to be located which is drawn to scale and

clearly depicts the necessary search area within which the site should, pursuant to radio frequency requirements, be located is attached as **Exhibit O**.

24. A grid map showing the location of all existing cellular antenna towers that includes the general position of proposed construction sites for new cellular antenna towers within the planning commission's jurisdiction and one-half mile outside the boundary of the planning unit's jurisdiction if that area contains either existing or proposed construction sites for cellular antenna towers is attached as **Exhibit P**.

25. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

26. All responses and requests associated with this Application may be directed

to:

Lloyd D. McCarthy  
Crown Communication Inc.  
Commonwealth Business Center  
11001 Bluegrass Parkway, Suite 330  
Louisville, Kentucky 40299  
Telephone: (502) 240-0044

and

Richard Guittar  
Director-Operations/Engineering  
BellSouth Mobility  
1650 Lyndon Farms Court  
Louisville, Kentucky 40223  
Telephone: (502) 329-4708

and

David A. Pike  
Pike Legal Group  
200 S. Buckman Street  
P. O. Box 369  
Shepherdsville, Kentucky 40165-0369  
Telephone: (502) 955-4400  
ATTORNEY FOR CROWN COMMUNICATION INC.

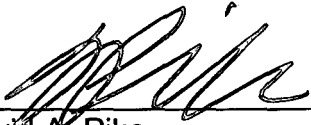
and

Sam McNamara  
McNamara & Jones  
P.O. Box 916  
Frankfort, KY 40602  
Telephone: (502) 875-8808  
ATTORNEY FOR WESTEL-MILWAUKEE COMPANY, INC.



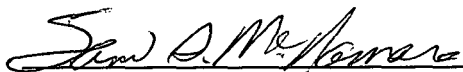
**WHEREFORE**, the Applicants respectfully request that the Commission accept the foregoing Application for filing, and having met the requirements of KRS 278.020 and all applicable rules and regulations of the Commission, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein for the respective networks in the Commonwealth of Kentucky.

Respectfully submitted,



\_\_\_\_\_  
David A. Pike  
Pike Legal Group  
200 S. Buckman Street  
P. O. Box 369  
Shepherdsville, Kentucky 40165-0369  
(502) 955-4400  
ATTORNEY FOR CROWN COMMUNICATION, INC.

and



\_\_\_\_\_  
Sam McNamara  
McNamara & Jones  
P.O. Box 916  
Frankfort, KY 40602  
(502) 875-8808  
ATTORNEY FOR WESTEL-MILWAUKEE COMPANY, INC.

## LIST OF EXHIBITS

- A - Copy of Articles of Incorporation, Certificate of Authority and FCC License
- B - Site Development Plan:
  - Vicinity Map
  - Property Owner Listing
  - 500' Vicinity Map
  - Legal Descriptions
  - Flood Plain Certification
  - Site Plan
  - Vertical Tower Profile
- C - Tower and Foundation Design
- D - Competing utilities, corporations, or persons list
- E - Collocation report
- F - Application to FAA
- G - Application to Kentucky Airport Zoning Commission
- H - Geotechnical Report
- I - Directions to WCF Site
- J - Copy of Real Estate Agreement
- K - Notification Listing
- L - Copy of Property Owner Notification
- M - Copy of Judge Executive Notice
- N - Copy of Posting Notices
- O - Copy of Radio Frequency Design Search Area
- P - Tower Map for Subject County

**EXHIBIT A**  
**COPY OF ARTICLES OF INCORPORATION, CERTIFICATE OF**  
**AUTHORITY AND FCC LICENSE**



United States of America  
 Federal Communications Commission  
**RADIO STATION AUTHORIZATION**  
 Cellular Radiotelephone Service

WESTEL-MILWAUKEE COMPANY, INC.  
 8410 W BRYN MAWR AVE STE 700  
 CHICAGO, IL 60631

— Call Sign: KNKN748

— Market: 0445      Channel Block: A-1      SID: 0197, 1277  
 — Market Name:      KENTUCKY 3 - MEADE

The Licensee hereof is authorized, for the period indicated, to operate a radio transmitting station in accordance with the terms and conditions hereinafter described. This authorization is subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts of Congress, international treaties and agreements to which the United States is a signatory, and all pertinent rules and regulations of the Federal Communications Commission, contained in Title 47 of the Code of Federal Regulations.

Initial Grant Date..... January 06, 1992  
 Expiration Date..... October 01, 2001

**WAIVERS / CONDITIONS:**

Pursuant to Section 309(h) of the Communications Act 1934, as amended, (47 U.S.C. § 309(h)), this authorization is subject to the following conditions: (1) This authorization does not vest in the licensee any right to operate a station nor any right in the use of the electromagnetic spectrum designated herein beyond the term thereof nor in any other manner than authorized herein. (2) Neither this license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended (47 U.S.C. § 151, *et seq.*) (3) This authorization is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended (47 U.S.C. § 606).

This authorization does not convey to the licensee the right to receive protection from the capture of subscriber traffic, co-channel interference or first-adjacent-channel interference in any area outside of the authorized cellular geographic service area (CGSA) of the system. Moreover, any facility authorized herein with a service area boundary (SAB) extending into the CGSA of any other operating cellular system on the same channel block, regardless of when such other cellular system was authorized, is subject to the following condition: In the event that the licensee of the other cellular system requests that the SAB of the facilities authorized herein be removed from its CGSA, the licensee herein must reduce transmitting power or antenna height (or both) as necessary to remove the SAB from the CGSA, unless written consent from the licensee of the other cellular system, allowing the SAB extension to remain, is obtained.

Issued by PL on Wednesday Feb  
 FCC Form 463A

For Additional Information Please Contact:  
 KY Engineering  
 1650 Lyndon Farms Court  
 (502) 329-4700



OFFICE OF THE SECRETARY OF STATE

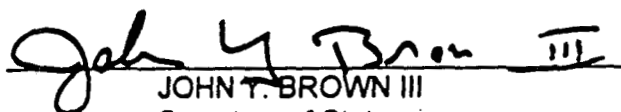
FOREIGN CORPORATION  
CERTIFICATE OF AUTHORIZATION

I, JOHN Y. BROWN III, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,  
CROWN COMMUNICATION INC.

is a corporation organized and existing under the laws of the state or country of  
DELAWARE; that was first authorized to transact business in the Commonwealth of Kentucky on AUGUST 12, 1997.

I further certify that all fees and penalties owed to the Secretary of State have been paid to date; that an Application for Certificate of Withdrawal has not been filed; and that the most recent annual report required by KRS Chapter 271B.16-220 or 273.3671 has been delivered to the Secretary of State on behalf of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal, at Frankfort, Kentucky, this 4TH day of DECEMBER, 1997.



JOHN Y. BROWN III  
Secretary of State  
Commonwealth of Kentucky



JOHN Y. BROWN III  
SECRETARY OF STATE

**CERTIFICATE**

I, JOHN Y. BROWN III, Secretary of State for the Commonwealth of Kentucky, do certify that the foregoing writing has been carefully compared by me with the original record thereof, now in my official custody as Secretary of State and remaining on file in my office, and found to be a true and correct copy of CERTIFICATE OF AUTHORITY OF CROWN COMMUNICATION INC. FILED AUGUST 12, 1997.

IN WITNESS WHEREOF, I have hereunto  
set my hand and affixed my official seal.

Done at Frankfort this 4TH day of  
DECEMBER, 19 97

*John Y. Brown III*  
Secretary of State, Commonwealth of Kentucky



**John Y. Brown III  
Secretary of State**

**Certificate of Authorization**

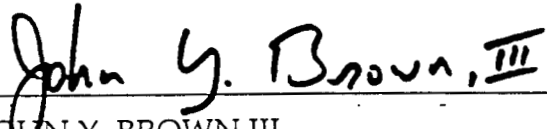
I, JOHN Y. BROWN III, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

**WESTEL-MILWAUKEE COMPANY, INC.**

, a corporation organized under the laws of the state of Wisconsin, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on March 10, 1997.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 271B.16-220 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 8<sup>th</sup> day of September, 1999.

  
\_\_\_\_\_  
JOHN Y. BROWN III  
Secretary of State  
Commonwealth of Kentucky  
tbates/0429768

IN THE NAME AND BY THE AUTHORITY OF THE



JOHN Y. BROWN III  
SECRETARY OF STATE

---

---

**CERTIFICATE**

I, JOHN Y. BROWN III, Secretary of State for the Commonwealth of Kentucky, do certify that the foregoing writing has been carefully compared by me with the original record thereof, now in my official custody as Secretary of State and remaining on file in my office, and found to be a true and correct copy of CERTIFICATE OF AUTHORITY OF WESTEL-MILWAUKEE COMPANY, INC. FILED MARCH 10, 1997.



**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

**VICINITY MAP**

**PROPERTY OWNER LISTING**

**500' VICINITY MAP**

**LEGAL DESCRIPTIONS**

**FLOOD PLAIN CERTIFICATION**

**SITE PLAN**

**VERTICAL TOWER PROFILE**



**CROWN**  
COMMUNICATION, INC.

# NATCHER PARKWAY KY 279

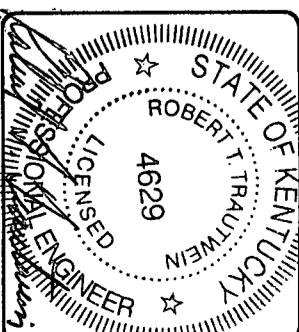
11001 BLUEGRASS PARKWAY  
SUITE # 330  
LOUISVILLE, KY. 40299  
(502) 240-0044 PHONE  
(502) 240-0045 FAX

605 CLARK LANDING ROAD  
MORGANTOWN, KENTUCKY 42261  
PROPOSED 400' GUYED TOWER  
WITH MULTIPLE CARRIERS



11001 BLUEGRASS PARKWAY  
SUITE # 330  
LOUISVILLE, KENTUCKY 40299  
(502) 240-0044 PHONE  
(502) 240-0045 FAX

**BTM**  
BIRCH, TRAUTWEIN & MIMS, INC.  
4124 TAYLORSVILLE ROAD  
LOUISVILLE, KENTUCKY 40220  
(502) 459-8402 PHONE  
(502) 459-8427 FAX



EGHO NUMBER:  
KY 279

SITE NAME:  
NATCHER PARKWAY  
SITE ADDRESS:  
605 CLARK LANDING ROAD  
MORGANTOWN, KY 42261  
AREA:  
LEASE AREA = 10,000 sq. ft.

PROPERTY OWNER:  
LUCHEM, JR. & JUDITH KEOWN  
605 CLARK LANDING ROAD  
MORGANTOWN, KY 42261  
ACCESSOR NUMBER:  
89

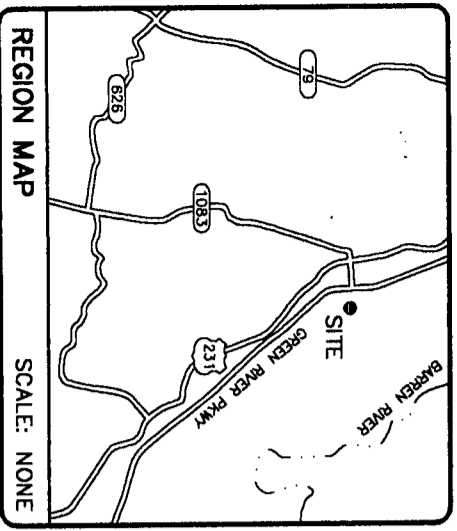
PARCEL NUMBER:  
2  
SOURCE OF TITLE:  
D.B. 120, PG. 545

DRAWN BY:  
DOC  
CHECKED BY:  
BJ

NO.	REVISION/ISSUE	DATE
1.	ZONING PLANS	08/25/95
2.	FINAL DRAWINGS	10/11/99
3.	CROWN REVISIONS	10/21/99

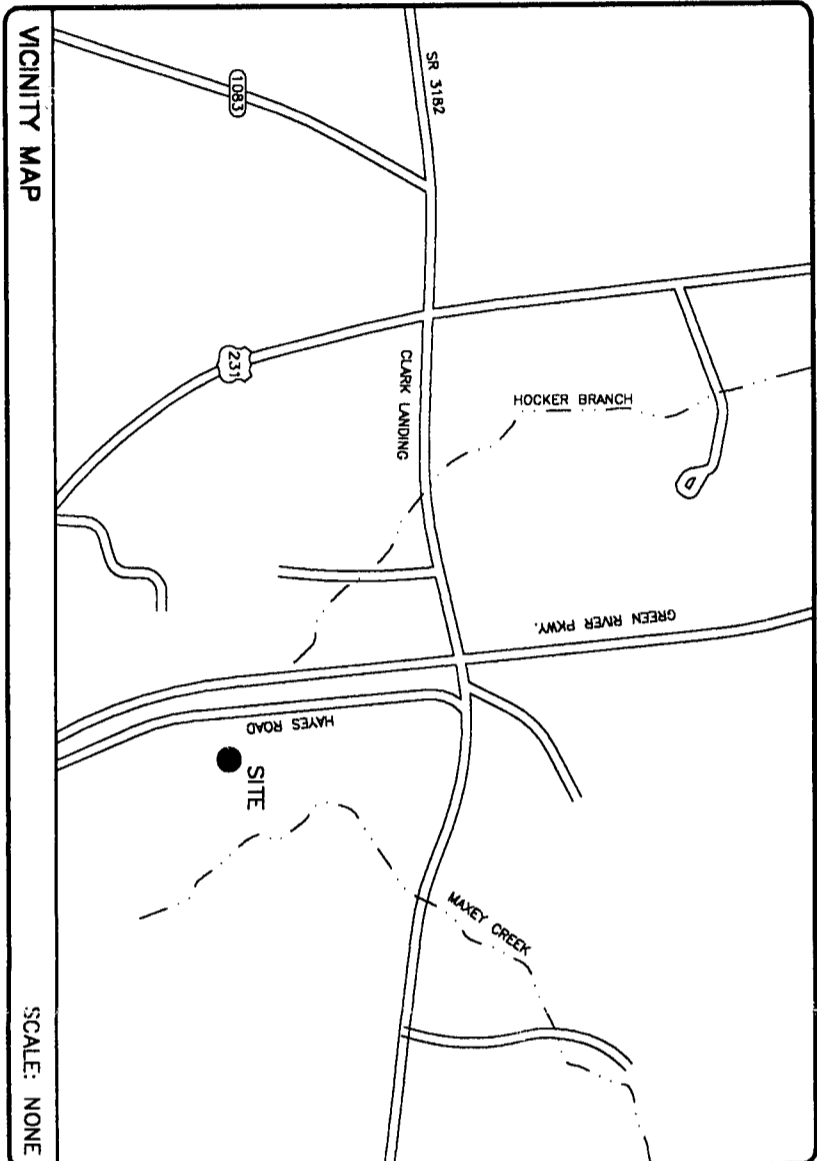
TITLE:  
TITLE SHEET,  
SITE INFO  
AND SHEET INDEX

SHEET:  
T-1



**BTM**  
ARCHITECTURAL DESIGN  
ENGINEER  
BIRCH, TRAUTWEIN & MIMS, INC.  
4124 TAYLORSVILLE ROAD  
LOUISVILLE, KENTUCKY 40220  
(502) 459-8402 PHONE  
(502) 459-8427 FAX

**TD**  
SURVEYING  
I. AIGM Neal Company  
Civil Engineering & Land Surveying  
428 Wornock Street  
Louisville, KY 40217  
(502) 635-5865 FAX: 636-5263



DIRECTIONS TO SITE  
COMING FROM LOUISVILLE, KY ON I-65, TAKE EXIT #20 ON I-65 IN BOWLING GREEN ONTO NATCHER PARKWAY GOING NORTH TO NORTHWEST. TAKE NATCHER PARKWAY TO THE TOLL BOOTH. ACCESS HWY 231 GOING NORTHWEST AT THE TOLL BOOTH. GO UP HWY 231 TO THE BUTLER/WARREN COUNTY LINE. CONTINUE NORTHWEST TO CROSS ROAD AND TURN RIGHT ON CLARK LANDING ROAD. GO EAST ON CLARK LANDING ROAD AND GO UNDER NATCHER PKWY. TURN RIGHT JUST UNDER NATCHER PKWY. ONTO HAYES ROAD. CONTINUE DOWN HAYES APPROXIMATELY 2500'. SITE IS ON LEFT. AT BACK CORNER OF THE TRACT.

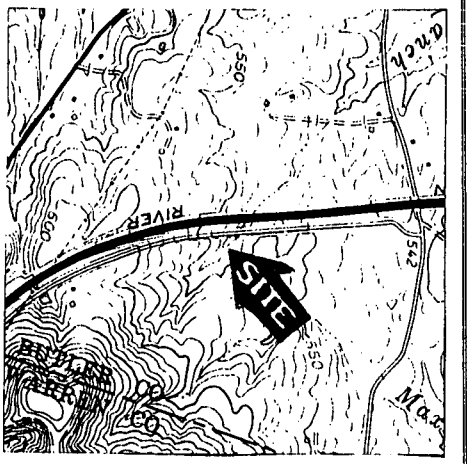
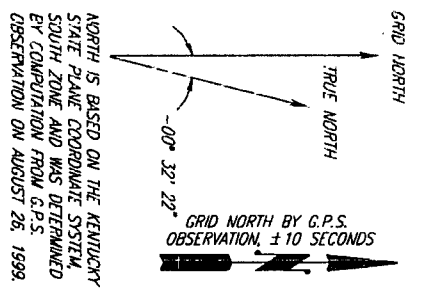
**SITE NAME**  
NATCHER PARKWAY  
**SITE NUMBER**  
KY 279  
**SITE ADDRESS**  
605 CLARK LANDING ROAD  
MORGANTOWN, KY 42261  
**SITE OWNER**  
LUCHEM, JR. & JUDITH KEOWN  
605 CLARK LANDING ROAD  
MORGANTOWN, KY 42261  
**APPLICANT**  
CROWN COMMUNICATION, INC.  
COMMONWEALTH BUSINESS CENTER  
11001 BLUEGRASS PARKWAY  
LOUISVILLE, KENTUCKY 40299  
OFFICE: (502) 240-0044  
FAX: (502) 240-0045  
**ZONING**  
AGRICULTURAL  
**ACCESSOR NUMBER**  
89  
**PARCEL NUMBER**  
2  
**SOURCE OF TITLE**  
DEED BOOK 120, PAGE 545

**SHEET NUMBER** T-1  
**TITLE SHEET & SITE INFO**  
**SURVEY** C-1 500' RADIUS/ABUTTERS  
C-2 SITE SURVEY PLAN  
**ARCHITECTURAL** Z-3 SITE LAYOUT  
Z-4 NORTH & SOUTH ELEVATION  
Z-5 EAST & WEST ELEVATION  
**DETAILS**  
**SHEET INDEX**  
R.F.  
IMPLEMENTATION  
LEASE AGENT  
ZONING AGENT  
LAND OWNER  
SIGNATURE BOX

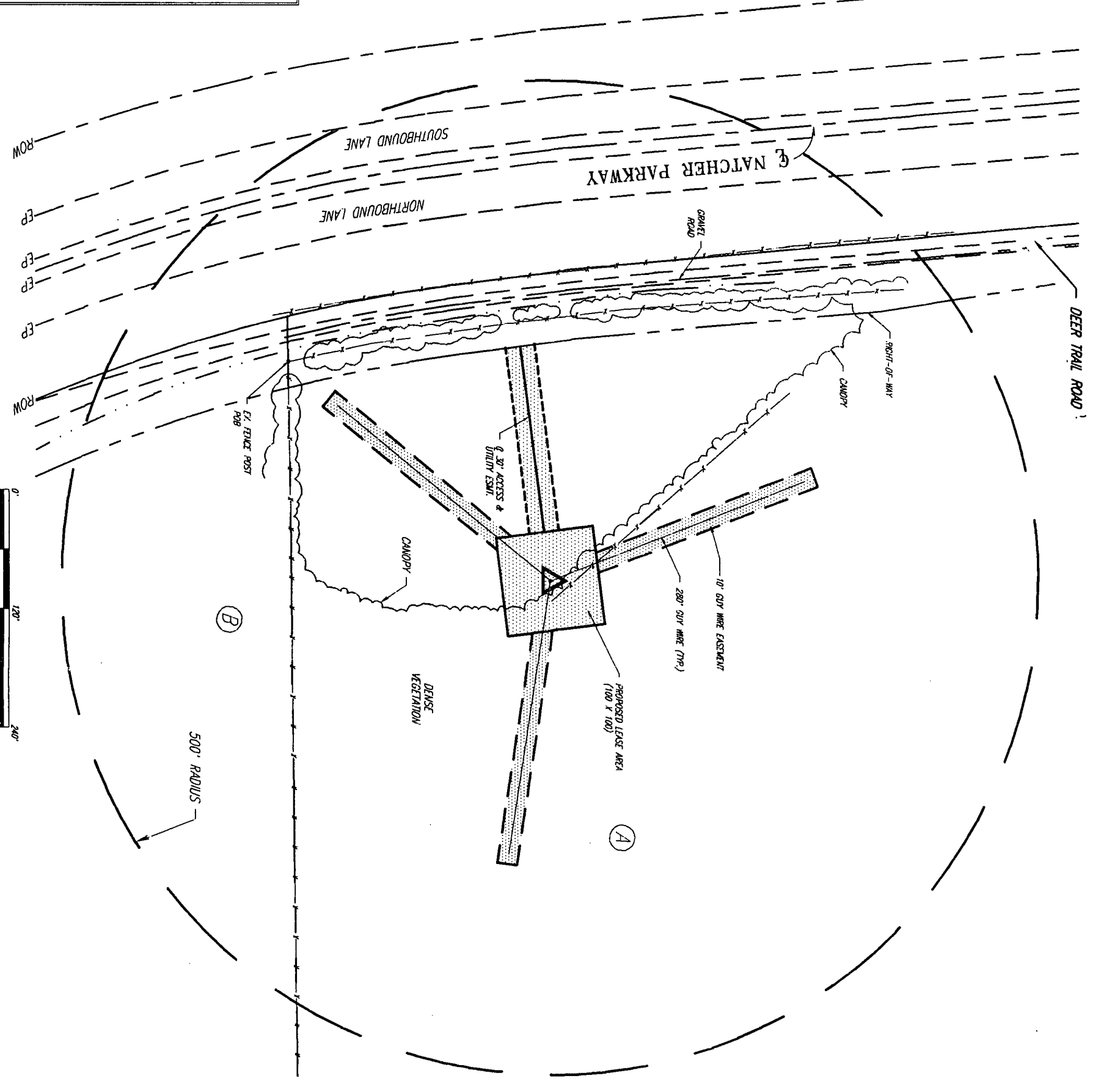
TITLE:  
TITLE SHEET,  
SITE INFO  
AND SHEET INDEX

SHEET:  
T-1

	VICINITY AND 500' STRUCTURAL MAP
	ABUTTING PROPERTY OWNERS
	U.S.G.S. QUAD MAP SHEET 2
	LEASE AREA
	LEGAL DESCRIPTIONS
	FLOOD ZONE DATA



U.S.G.S. 7 1/2 MINUTE QUAD MAP OF SUGAR GROVE, KY.  
 QUAD MAP  
 SCALE: 1" = 2000'



- ④ MAP 89, LOT 2  
 KEOWN, LUCIAN JR.  
 605 CLARK LANDING RD.  
 MORGANTOWN, KY 42261  
 DEED BOOK 128, PAGE 545
- ③ MAP 89, LOT 7  
 HAYES, HERBERT  
 P.O. BOX 473  
 MORGANTOWN, KY 42261  
 DEED BOOK 128, PAGE 245

COMMONWEALTH BUSINESS CENTER 11001 BLUEGRASS PARKWAY SUITE 330 LOUISVILLE, KY. 40299 OFFICE: (502) 240-0044 FAX: (502) 240-0045	
<b>T. Alon Neal Company</b>	
Civil Engineering 428 Winlock Street Louisville, Kentucky 40217	
ECHO NUMBER:	KY 279C
SITE NAME:	MATCHLER PARKWAY
SITE ADDRESS:	605 CLARK LANDING ROAD MORGANTOWN, KY. 42261
AREA:	LEASE AREA = 10,000 sq. ft.
PROPERTY OWNER:	KEOWN, LUCIAN JR. & JUDITH 605 CLARK LANDING ROAD MORGANTOWN, KY. 42261
TAX MAP NUMBER:	89
PARCEL NUMBER:	2
SOURCE OF TITLE:	DEED BOOK 120, PAGE 545
DWG BY:	CHAD BY:
LAP	FSU
TAX PROJECT NO.:	DATE:
T-2664	09.09.99
SHEET 1 OF 2 REVISIONS: NAME CHANGE 09.14.99	
C1	

- VICINITY AND 500 STRUCTURAL MAP
- ABUTTING PROPERTY OWNERS
- U.S.G.S. QUAD MAP
- SHEET 2
- LEASE AREA
- LEGAL DESCRIPTIONS
- FLOOD ZONE DATA

COORDINATE POINT LOCATION  
 NAD 1983  
 LATITUDE: 37° 06' 19.78"  
 LONGITUDE: 86° 38' 19.82"  
 NAD 1988  
 ELEVATION: 541.89  
 STATE PLANE COORDINATE SOUTH ZONE  
 (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)  
 NORTHING: 1922712.15  
 EASTING: 1381240.80

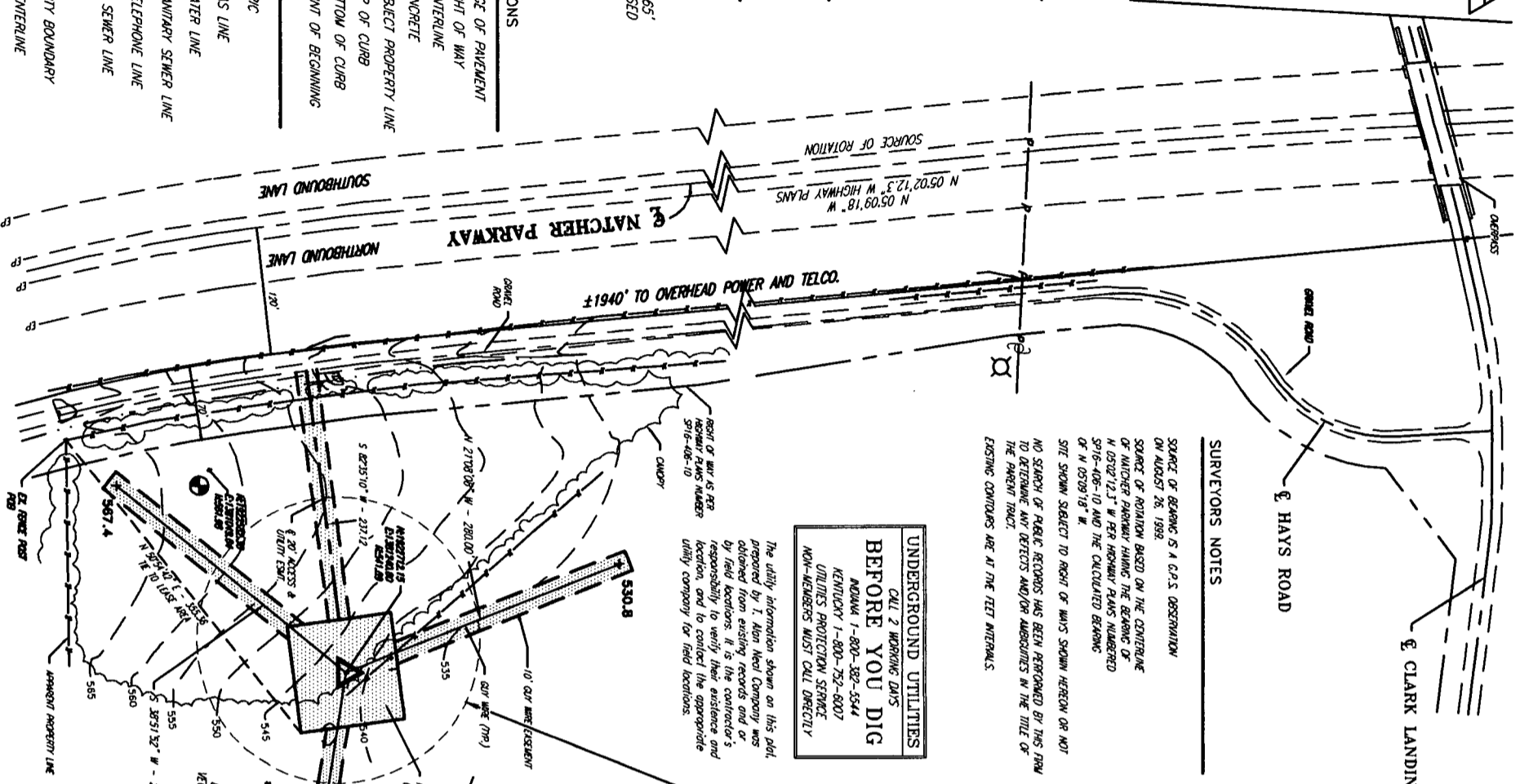
UTILITY COMPANY: UNKNOWN  
 IDENTIFICATION #: N/A  
 PROJECT BENCHMARK  
 NORTH: 192282.36  
 EAST: 1381049.64  
 ELEVATION: 561.98  
 LOCATION: BEING A SET I.P.C. LOCATED ±165' SOUTHWEST FROM THE PROPOSED LEASE AREA.

- SYMBOL LEGEND
- WOOD POWER POLE
  - LIGHT POLE
  - MANHOLE
  - WATER METER
  - FIRE HYDRANT
  - GUY ANCHOR
  - FENCE POST
  - #5 REBAR (UNLESS OTHERWISE NOTED)

- ABBREVIATIONS
- EP EDGE OF PAVEMENT
  - ROW RIGHT OF WAY
  - ℄ CENTERLINE
  - CONC CONCRETE
  - ℄ SUBJECT PROPERTY LINE
  - TC TOP OF CURB
  - BC BOTTOM OF CURB
  - POB POINT OF BEGINNING

- LINE LEGEND
- OVERHEAD ELECTRIC
  - UNDERGROUND GAS LINE
  - UNDERGROUND WATER LINE
  - UNDERGROUND SANITARY SEWER LINE
  - UNDERGROUND TELEPHONE LINE
  - DRAINAGE/STORM SEWER LINE
  - FENCE
  - SUBJECT PROPERTY BOUNDARY
  - RIGHT OF WAY CENTERLINE

NOTE: SYMBOLS, ABBREVIATIONS, OR LINES/STYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE.

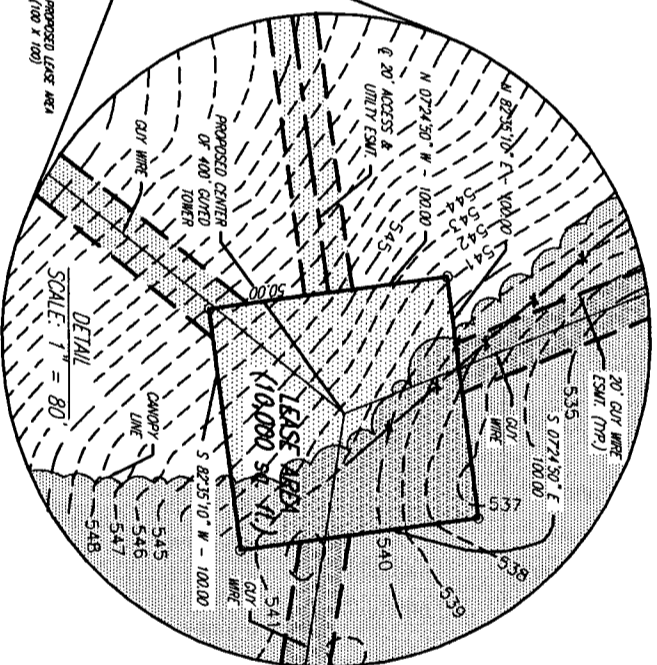
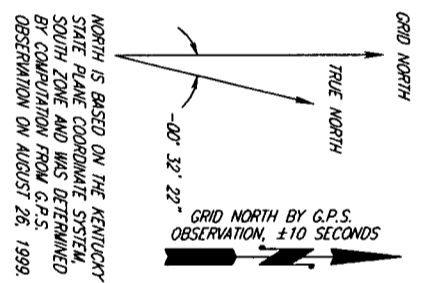


**SURVEYOR'S NOTES**

SOURCE OF BEARING IS A C.A.S. OBSERVATION ON AUGUST 26, 1999.  
 SOURCE OF ROTATION BASED ON THE CENTERLINE OF NATCHER PARKWAY HAVING THE BEARING OF N 05°02'12.3" W PER HIGHWAY PLANS NUMBERED SP16-106-10 AND THE CALCULATED BEARING OF N 05°09'18" W.  
 SITE SHOWN SUBJECT TO RIGHT OF WAYS SHOWN HEREON OR NOT.  
 NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DETECTS AND/OR ABUTTERS IN THE TITLE OF THE PRESENT TRACT.  
 EXISTING CONTIGUOUS ARE AT THE FEET METERS.

**UNDERGROUND UTILITIES**  
 CALL 2 WORKING DAYS  
**BEFORE YOU DIG**  
 MOWMA 1-800-382-5544  
 KENTUCKY 1-800-752-8007  
 UTILITIES PROTECTION SERVICE  
 NON-MEMBERS MUST CALL DIRECTLY

The utility information shown on this plan, prepared by T. Alan Neal Company, was obtained from existing records and/or by field locations. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.



**LEGAL DESCRIPTIONS:**  
 This is a description for Crown Communication Inc., of an area to be leased from the property of Luncheon & Judith Keown, which is further described as follows:  
**LEASE AREA**  
 Beginning at a Fence Post located at the southwest corner of the property conveyed to Luncheon & Judith Keown, as recorded in Deed Book 120 Page 545, in the Office of the Clerk, of the County Court, of Butler County, Kentucky; thence traversing said property N 50° 54'42" E - 355.36' to a set #5 rebar and the TRUE POINT OF BEGINNING of the Proposed Lease Area; thence S 82° 35'10" W - 100.00' to a set #5 rebar; thence N 07° 24'50" W - 100.00' to a set #5 rebar; thence N 82° 35'10" E - 100.00' to a set #5 rebar; thence S 07° 24'50" E - 100.00' to the true point of beginning containing 10,000 square feet as per survey by T. Alan Neal Company dated September 4, 1999.

**CENTERLINE OF 20' ACCESS & UTILITY EASEMENT**  
 Beginning at a Fence Post located at the southwest corner of the property conveyed to Luncheon & Judith Keown, as recorded in Deed Book 120 Page 545, in the Office of the Clerk, of the County Court, of Butler County, Kentucky; thence traversing said property N 50° 54'42" E - 355.36' to a point; thence S 82° 35'10" W - 100.00' to a point; thence N 07° 24'50" W - 50.00' to a set #5 rebar and the TRUE POINT OF BEGINNING of the centerline of the proposed 20' Access and Utility Easement; thence following said centerline S 82° 35'10" W - 237.12' to a point in the centerline of ~~Access Easement~~ and the end of said easement.

**LAND SURVEYOR'S CERTIFICATE**

TYPE "A" SURVEY: UNADJUSTED TRAVELESE CLOSURE BETTER THAN 1 IN 35,000  
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plan and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief; and that the standards of the governing authorities of this property is subject to any recorded easements or right of ways not shown hereon.  
 T. Alan Neal Company  
 Frank L. Sellinger, Ky. Reg. No. 32882

STATE OF KENTUCKY  
 FRANK L. SELLINGER  
 LICENSED PROFESSIONAL LAND SURVEYOR

"CELLULAR COMMUNICATION TOWER SITE SURVEY"  
 OWNER APPROVAL: *Frank L. Sellinger* DATE: 10-26-99  
 CROWN APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21029 075C DATED 6-5-89 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA.  
 C2

**CROWN COMMUNICATION INC.**  
 COMMONWEALTH BUSINESS CENTER  
 1101 BLUEGRASS PARKWAY  
 SUITE 330  
 LOUISVILLE, KY, 40299  
 OFFICE: (502) 240-0044  
 FAX: (502) 240-0045

**T. Alan Neal Company**  
 (502) 635-5866  
 FAX: 636-5263

Site Name: NATCHER PARKWAY  
 Site Address: 605 CLARK LANDING ROAD MORGANTOWN, KY. 42261  
 ECHO NUMBER: KY 279C

Area: LEASE AREA = 10,000 sq. ft.  
 Property Owner: KEOWN, LUNCHEON JR. & JUDITH  
 605 CLARK LANDING ROAD MORGANTOWN, KY. 42261  
 Tax Map Number: 89

Parcel Number: 2  
 Source of Title: DEED BOOK 120, PAGE 545  
 DMC BY: CHKD BY: DATE: LAP FSJ 09/04/99  
 TAN PROJECT NO.: T-2664

SHEET 2 OF 2  
 REVISIONS:  
 CHANGE NAME 09/14/99  
 CHANGE STREET NAMES 10/22/99

# SITE PLAN NOTES

THE PROPOSED DEVELOPMENT IS FOR A 400 FOOT HIGH GUYED TOWER AND UP TO 4 ANCILLARY CABINETS. ITS LOCATION IS AT 605 CLARK LANDING RD. MORGANTOWN, KY 42261

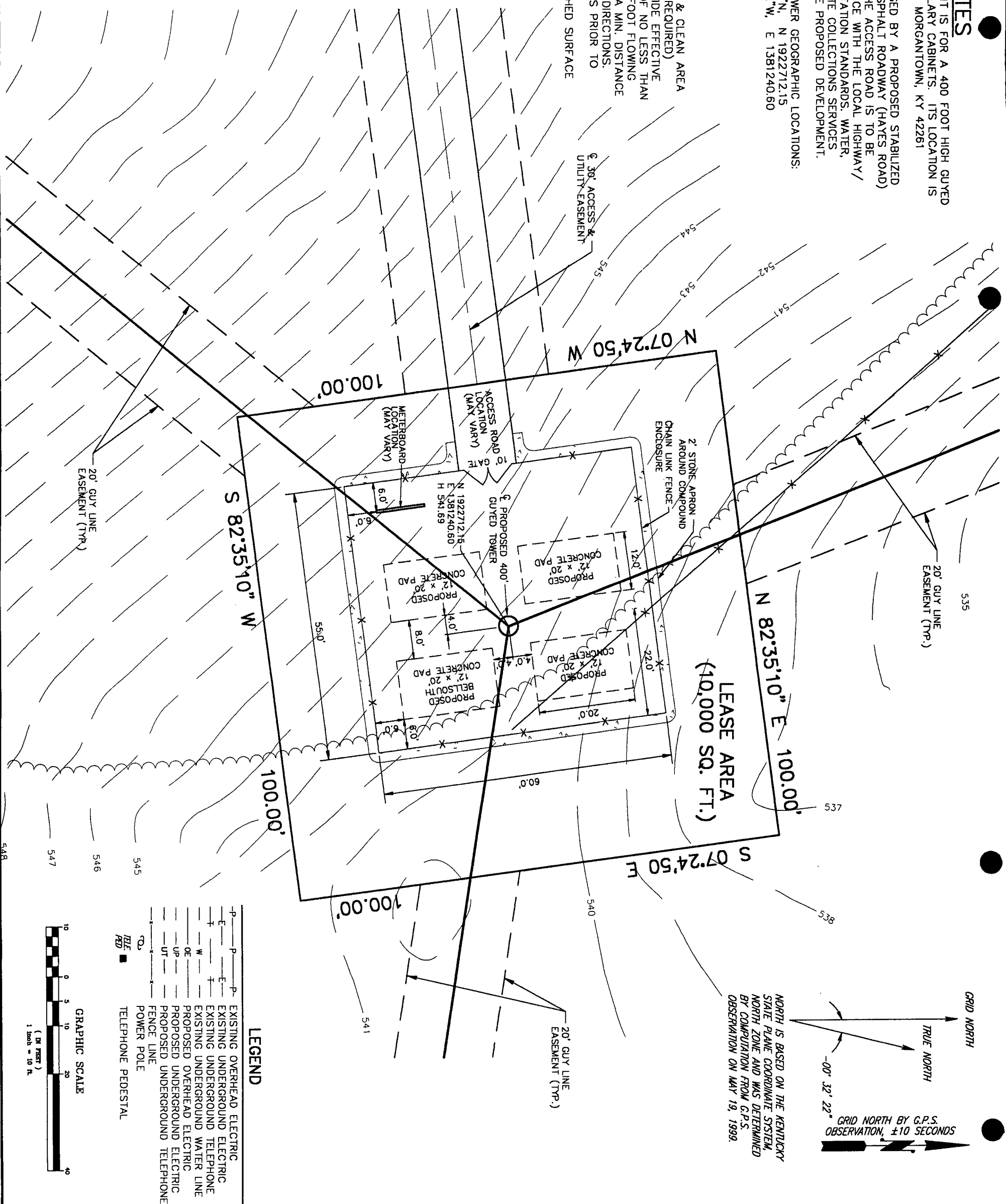
THE TOWER WILL BE ACCESSED BY A PROPOSED STABILIZED DRIVE FROM AN EXISTING ASPHALT ROADWAY (HAYES ROAD) A PUBLIC RIGHT OF WAY. THE ACCESS ROAD IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL HIGHWAY/ DEPARTMENT OF TRANSPORTATION STANDARDS. WATER, SANITARY SEWER, AND WASTE COLLECTIONS SERVICES ARE NOT REQUIRED FOR THE PROPOSED DEVELOPMENT.

CENTERLINE OF EXISTING TOWER GEOGRAPHIC LOCATIONS:

LATITUDE: 37°06'19.18"N, N 19222712.15  
LONGITUDE: 86°38'19.62"W, E 1381240.60

## NOTE:

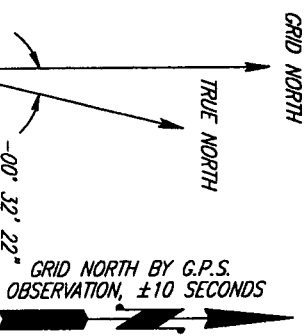
1. REMOVE ALL VEGETATION & CLEAN AREA W/ LEASE AREA (WHERE REQUIRED)
2. FINISH GRADING TO PROVIDE EFFECTIVE DRAINAGE W/ A SLOPE OF NO LESS THAN ONE EIGHTH (1/8") PER FOOT FLOWING AWAY FROM EQUIP. FOR A MIN. DISTANCE OF SIX FEET (6') IN ALL DIRECTIONS.
3. LOCATE ALL U.G. UTILITIES PRIOR TO ANY CONSTRUCTION
4. FENCED COMPOUND FINISHED SURFACE



535

20' GUY LINE EASEMENT (TYP.)

LEASE AREA  
(10,000 SQ. FT.)

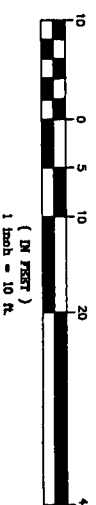


NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, NORTH ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MAY 19, 1999.

## LEGEND

-P-	-P-	-P-	EXISTING OVERHEAD ELECTRIC
-E-	-E-	-E-	EXISTING UNDERGROUND ELECTRIC
-W-	-W-	-W-	EXISTING UNDERGROUND WATER LINE
-OE-	-OE-	-OE-	PROPOSED OVERHEAD ELECTRIC
-UP-	-UP-	-UP-	PROPOSED UNDERGROUND ELECTRIC
-UT-	-UT-	-UT-	PROPOSED UNDERGROUND TELEPHONE
-P-	-P-	-P-	POWER POLE
-TEL	-TEL	-TEL	TELEPHONE PEDESTAL

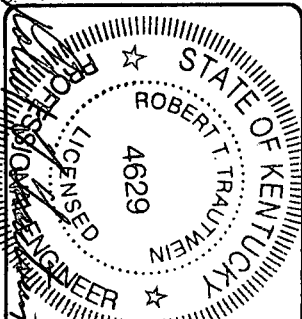
GRAPHIC SCALE



11001 BLUEGRASS PARKWAY  
SUITE # 330  
LOUISVILLE, KENTUCKY 40299  
(502) 240-0044 PHONE  
(502) 240-0045 FAX



BIRCH, TRAUTWEN & MIMS, INC.  
4124 TAYLORSVILLE ROAD  
LOUISVILLE, KENTUCKY 40220  
(502) 459-8402 PHONE  
(502) 459-8427 FAX



ECHO NUMBER: KY 279

SITE NAME: NATCHER PARKWAY

SITE ADDRESS: 605 CLARK LANDING ROAD MORGANTOWN, KY 42261

AREA: LEASE AREA = 10,000 sq. ft.

PROPERTY OWNER: JUDITH KEOWN  
605 CLARK LANDING ROAD MORGANTOWN, KY 42261

ACCESSOR NUMBER: 89

PARCEL NUMBER: 2

SOURCE OF TITLE: D.B. 120, PG. 545

DRAWN BY: DOC

CHECKED BY: BJ

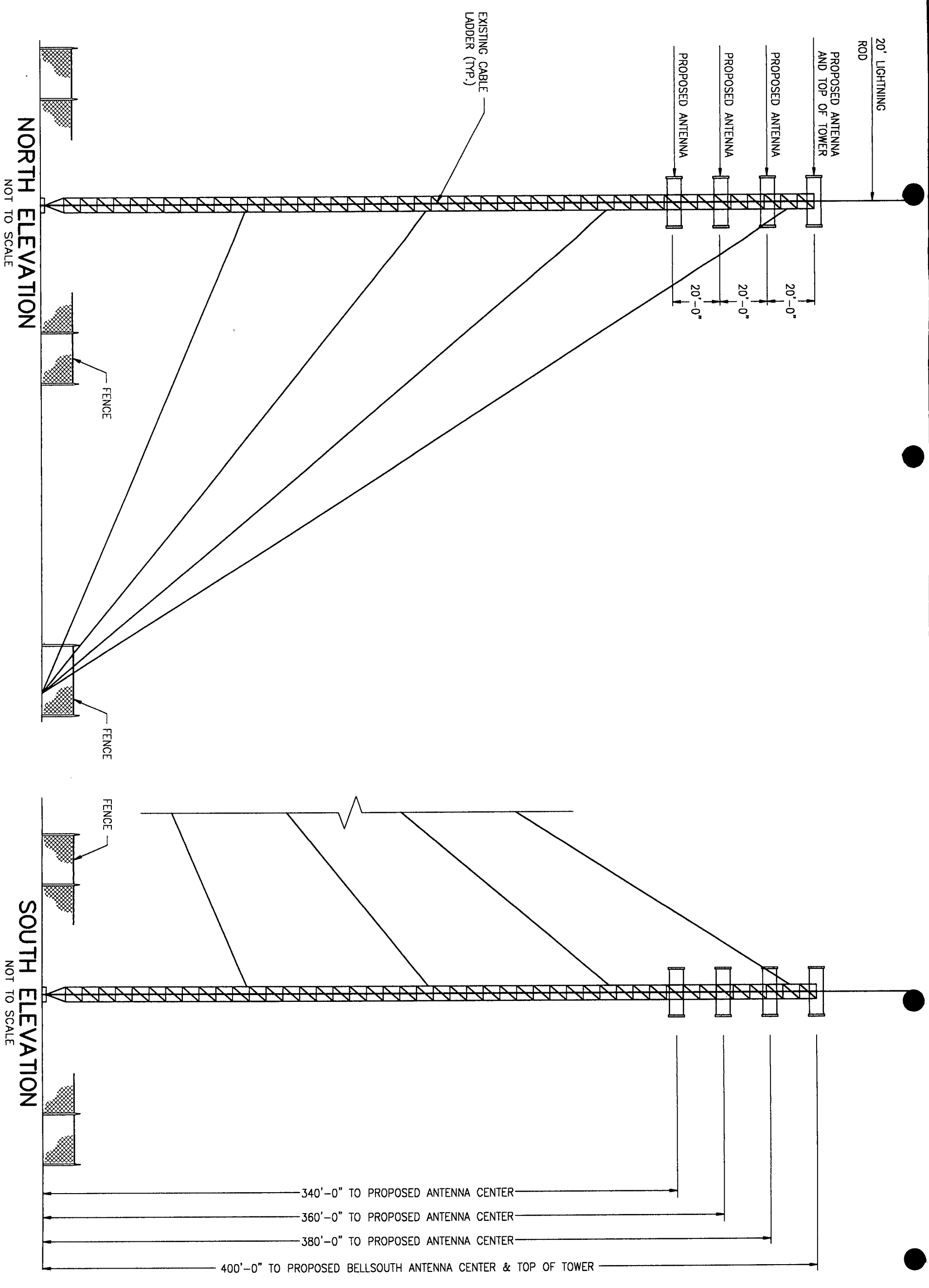
NO.	REVISION/ISSUE	DATE
1.	ZONING PLANS	08/25/95
2.	FINAL DRAWINGS	10/11/99
3.	GROWN REVISIONS	10/21/99

TITLE:

SITE PLAN

SHEET:

Z-3



NORTH ELEVATION  
NOT TO SCALE

SOUTH ELEVATION  
NOT TO SCALE

- 340'-0" TO PROPOSED ANTENNA CENTER
- 360'-0" TO PROPOSED ANTENNA CENTER
- 380'-0" TO PROPOSED ANTENNA CENTER
- 400'-0" TO PROPOSED BELLSOUTH ANTENNA CENTER & TOP OF TOWER

**CHDWIN**  
COMMUNICATIONS, INC.

11001 BLUEGRASS PARKWAY  
SUITE # 3300  
LOUISVILLE, KENTUCKY 40299  
(502) 240-0044 PHONE  
(502) 240-0045 FAX

**BTM**  
BIRCH, TRAUTWEIN & MILLS, INC.  
4124 TATLOUSVILLE ROAD  
LOUISVILLE, KENTUCKY 40220  
(502) 459-8402 PHONE  
(502) 459-8427 FAX

STATE OF KENTUCKY  
ROBERT T. TRAUTWEIN  
4629  
PROFESSIONAL ENGINEER  
LICENSED  
REG. NO. KY 279

SITE NAME: NATHER PARKWAY  
SITE ADDRESS: 605 CLARK LANDING ROAD MORGANTOWN, KY 42261  
AREA: LEASE AREA = 10,000 sq. ft.  
PROPERTY OWNER: LUCHEN, JR. & ADULTH KEOWN 605 CLARK LANDING ROAD MORGANTOWN, KY 42261  
ACCESSOR NUMBER: 89  
PARCEL NUMBER: 2  
SOURCE OF TITLE: DBL 120, PG. 545  
DRAWN BY: DOC  
CHECKED BY: BJ  
NO. REVISION/ISSUE DATE  
1. ZONING PLANS DB/25/99  
2. FINAL DRAWINGS 10/11/99  
3. GROWN REVISIONS 10/21/99

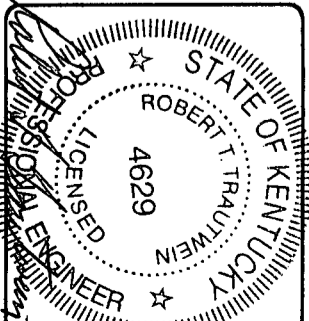
TITLE:  
NORTH / SOUTH ELEVATIONS

SHEET:  
Z-4



11001 BLUEGRASS PARKWAY  
 SUITE # 330  
 LOUISVILLE, KENTUCKY 40299  
 (502) 240-0044 PHONE  
 (502) 240-0045 FAX

**BTR**  
 BIRCH, TRAUTWEIN & MIMS, INC.  
 4124 TAYLORSVILLE ROAD  
 LOUISVILLE, KENTUCKY 40220  
 (502) 459-8402 PHONE  
 (502) 459-8427 FAX



ECHO NUMBER:  
 KY 279

SITE NAME:  
 NATCHER PARKWAY

SITE ADDRESS:  
 605 CLARK LANDING ROAD  
 MORGANTOWN, KY 42261

AREA:  
 LEASE AREA = 10,000 sq. ft.

PROPERTY OWNER:  
 MR. & MRS. JUDITH KEOWN  
 605 CLARK LANDING ROAD  
 MORGANTOWN, KY 42261

ACCESSOR NUMBER:  
 89

PARCEL NUMBER:  
 2

SOURCE OF TITLE:  
 D.B. 120, PG. 545

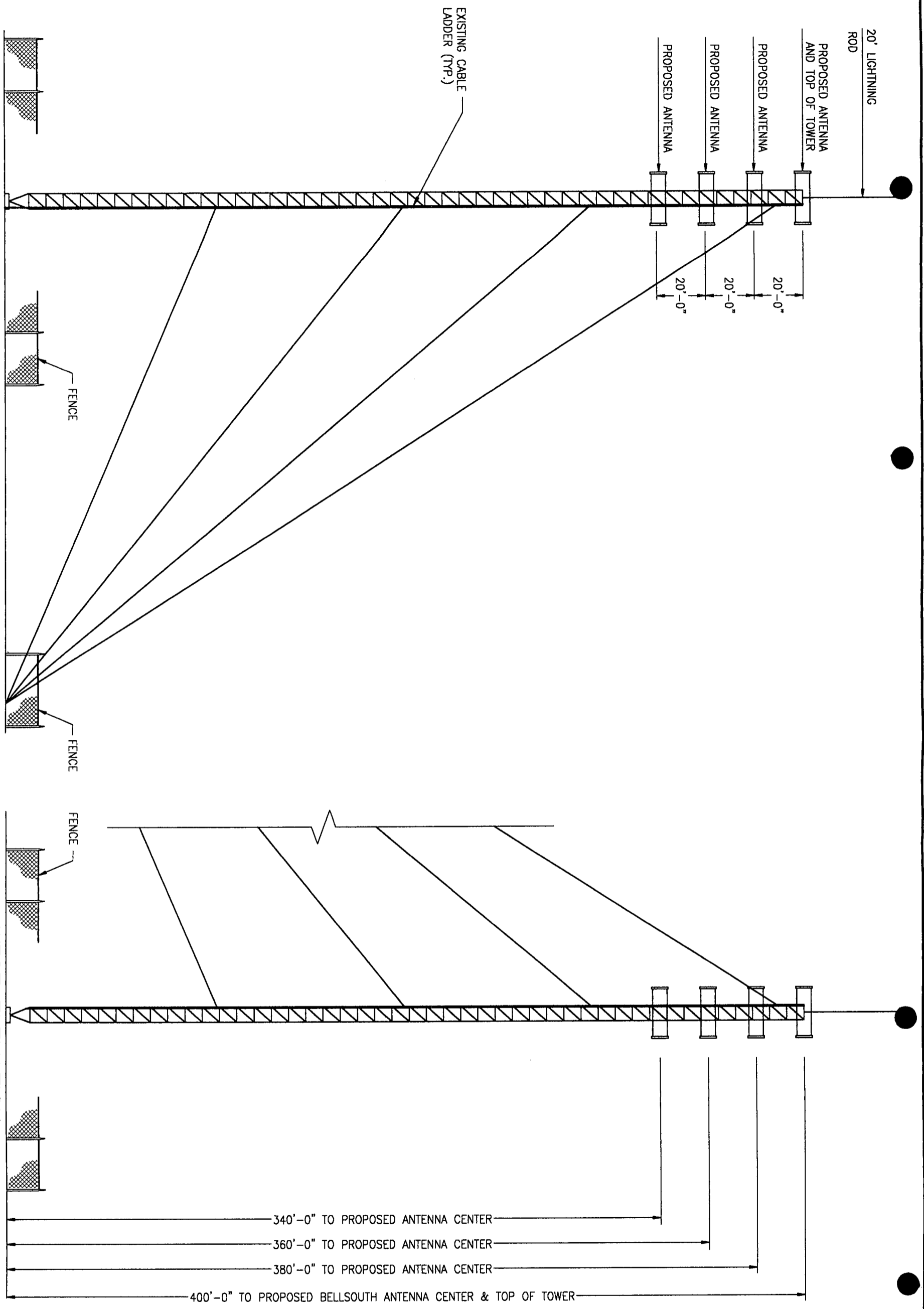
DRAWN BY:  
 DOC

CHECKED BY:  
 BJ

NO.	REVISION/ISSUE	DATE
1.	ZONING PLANS	08/25/99
2.	FINAL DRAWINGS	10/11/99
3.	CROWN REVISIONS	10/21/99

TITLE:  
**EAST / WEST  
 ELEVATIONS**

SHEET:  
**Z-5**



**EAST ELEVATION**

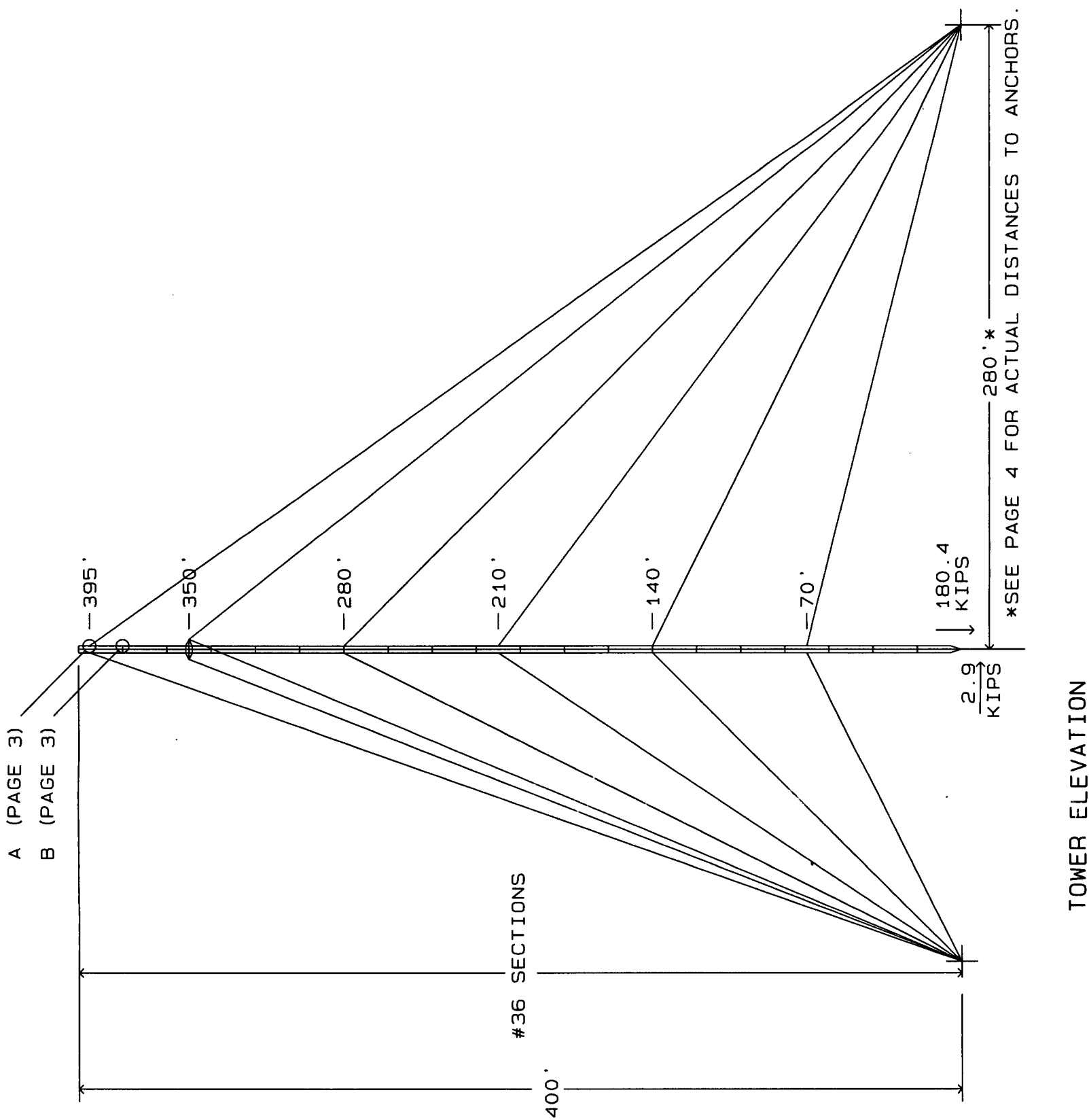
NOT TO SCALE

**WEST ELEVATION**

NOT TO SCALE

**EXHIBIT C**  
**TOWER AND FOUNDATION DESIGN**





A (PAGE 3)  
B (PAGE 3)

#36 SECTIONS

400'

TOWER ELEVATION



OCT 27 1999

CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUYED TOWER

APPROVED/ENG. WBR 10/28/1999

APPROVED/FOUND. N/A

DRAWN BY KWD

ENG. FILE NO. A-9910190C  
ARCHIVE Q-88129



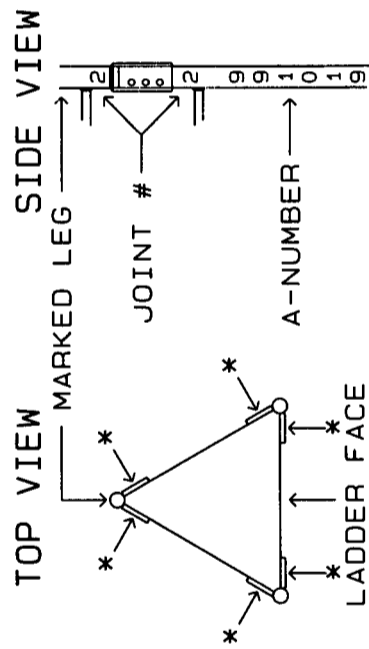
1545 Pidco Dr.  
Plymouth, IN 46563-0128  
219-936-4221

DRAWING NO. 205571-B  
PAGE 1 OF 14

REV	DESCRIPTION OF REVISIONS	INI	DATE
A	ADDED FOUNDATIONS	WBR	10/28/1999

From: 88129.DFT - 10/28/1999 14: 49  
Printed from: 2055711A.DWG - 10/28/1999 15: 31 @ 10/28/1999 15: 42

SECTION DATA							LEG CONNECTION		
SPAN HEIGHT	SEC#	LEN	LEGS	BRACES	PART#	BOLT DIAM	BOLT LEN	BOLTS /SEC	
380' - 400'	36	20'	2	3/4"	104499				
280' - 380'	36	20'	2	3/4"	104499	5/8"	4-1/2"	15	
20' - 280'	36	20'	2	5/8"	109273	5/8"	4-1/2"	15	
0' - 20'	36	20'	2		133222	5/8"	4-1/2"	15	



THE MARKED LEG OF EACH SECTION IS STAMPED WITH THE TOWER SERIAL # AT THE TOP OF EACH SECTION AND THE JOINT # AT EACH END OF THE SECTION. JOINTS ARE NUMBERED CONSECUTIVELY STARTING WITH 1 AT THE TOP OF THE BASE SECTION. ASSEMBLE TOWER WITH MARKED LEGS TOGETHER IN PROPER SEQUENCE.

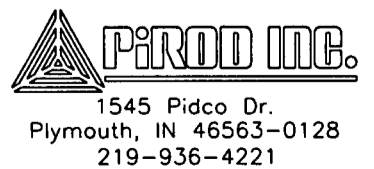
\* INDICATES RELATIVE POSITION OF LINE HANGING BRACKETS P/N 131773 AT NOMINAL 3' VERTICAL SPACING.



OCT 28 1999

CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUYED TOWER

APPROVED/ENG.	WBR	10/28/1999
APPROVED/FOUND	N/A	
DRAWN BY	KWD	



From: 88129.DFT - 10/27/1999 11: 10

Printed from: 2055712@.DWG - 10/27/1999 11: 15 @ 10/28/1999 15: 42

ENG. FILE NO. A-9910190C  
ARCHIVE Q-88129

DRAWING NO. 205571-B  
PAGE 2 OF 14

**GUY HARDWARE DETAIL**

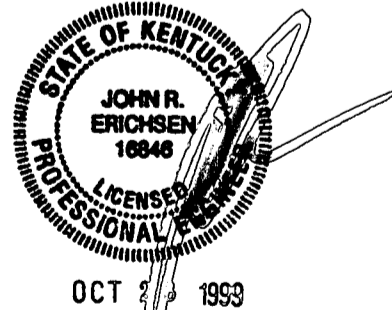
HT.	GUY SIZE	TORQ SIZE	LUG PART#	SHCKL SIZE	THMBLE SIZE	TURN-BCKLE	PREFORM	INITIAL TENSION **					
								@ -30°F	@ 0°F	@ 30°F	@ 60°F @ 90°F @ 120°F		
395'	11/16" EHS.		105062	7/8"	3/4"	1"	BG-MS-1035	6019#	5672#	5335#	5000#	4679#	4382#
350'	11/16" EHS.	12'	105062	7/8"	3/4"	1"	BG-MS-1035	6195#	5786#	5391#	5000#	4629#	4300#
280'	5/8" EHS.		105062	3/4"	3/4"	1"	BG-2111	5499#	5061#	4635#	4240#	3859#	3492#
210'	9/16" EHS.		105062	3/4"	5/8"	7/8"	BG-2116	4845#	4380#	3920#	3500#	3109#	2747#
140'	1/2" EHS.		105062	5/8"	5/8"	7/8"	BG-2115	3995#	3536#	3095#	2690#	2321#	1992#
70'	1/2" EHS.		105062	5/8"	5/8"	7/8"	BG-2115	4227#	3685#	3165#	2690#	2251#	1896#

\*\* TENSIONS SHOWN ARE FOR GUY LINE (A). INTERPOLATION IS PERMITTED FOR OTHER TEMPERATURES. TOLERANCE IS +/- 10% OF INITIAL TENSION SHOWN.

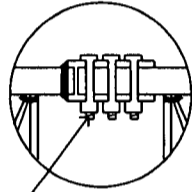
**GUY LENGTH DATA**

HT.	GUY SIZE	# GUYS	THEORETICAL LENGTH ***		
			EAST	(B) SOUTHWEST	(C) NORTHWEST
395'	11/16" EHS.	3	479.3'	463.2'	492.4'
350'	11/16" EHS.	6	443.5'	428.2'	456.1'
280'	5/8" EHS.	3	391.8'	378.0'	403.1'
210'	9/16" EHS.	3	346.4'	335.0'	356.1'
140'	1/2" EHS.	3	310.4'	302.3'	317.6'
70'	1/2" EHS.	3	287.2'	283.4'	291.2'

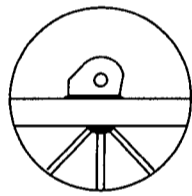
\*\*\* THEORETICAL LENGTH SHOWN IS NOT THE CUT LENGTH. ADD 5% TO 10% TO VALUE LISTED TO ARRIVE AT CUT LENGTH. QUANTITY OF CABLE SHIPPED IS THEORETICAL LENGTH +10%.



A-325 BOLTS  
SEE LEG CONNECT  
TABLE FOR SIZE



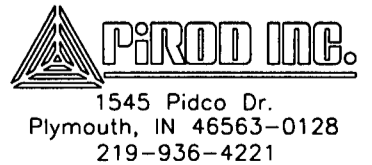
VIEW B  
TYPICAL LEG  
CONNECTION



VIEW A  
TYPICAL GUY  
CONNECTION LUG

CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUYED TOWER

APPROVED/ENG.	WBR	10/28/1999
APPROVED/FOUND.	N/A	
DRAWN BY	KWD	



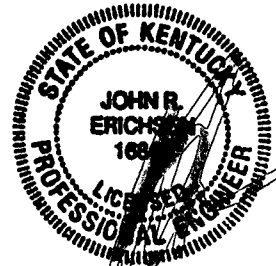
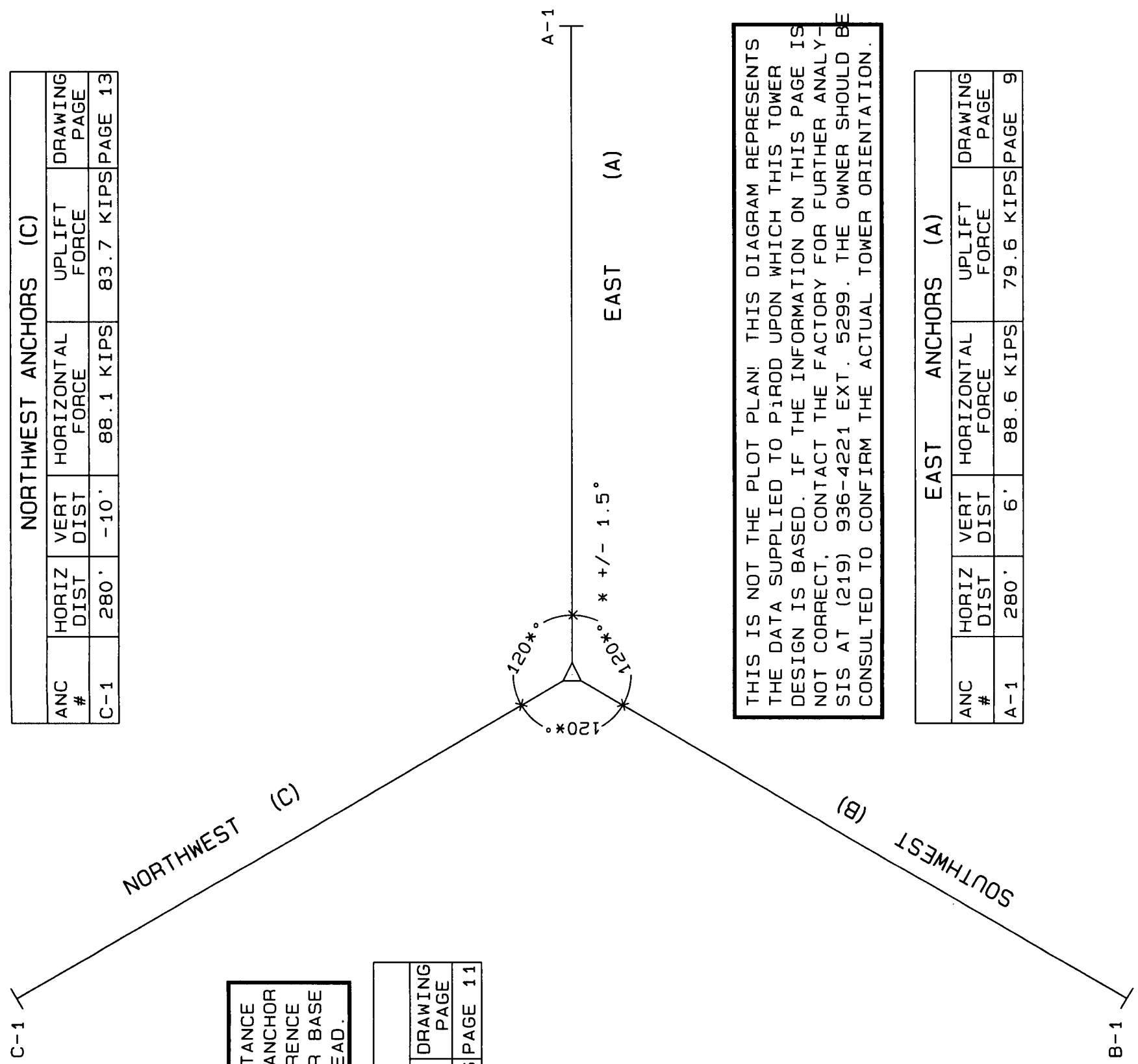
NORTHWEST ANCHORS (C)					
ANC #	HORIZ DIST	VERT DIST	HORIZONTAL FORCE	UPLIFT FORCE	DRAWING PAGE
C-1	280'	-10'	88.1 KIPS	83.7 KIPS	PAGE 13

EAST ANCHORS (A)					
ANC #	HORIZ DIST	VERT DIST	HORIZONTAL FORCE	UPLIFT FORCE	DRAWING PAGE
A-1	280'	6'	88.6 KIPS	79.6 KIPS	PAGE 9


SOUTHWEST ANCHORS (B)					
ANC #	HORIZ DIST	VERT DIST	HORIZONTAL FORCE	UPLIFT FORCE	DRAWING PAGE
B-1	280'	26'	89.3 KIPS	74.5 KIPS	PAGE 11

NOTE: THE HORIZONTAL DISTANCE IS THE DISTANCE MEASURED FROM THE TOWER BASE PIN TO THE ANCHOR HEAD. THE VERTICAL DISTANCE IS THE DIFFERENCE BETWEEN THE GROUND ELEVATION AT THE TOWER BASE AND THE GROUND ELEVATION AT THE ANCHOR HEAD.

THIS IS NOT THE PLOT PLAN! THIS DIAGRAM REPRESENTS THE DATA SUPPLIED TO PIROD UPON WHICH THIS TOWER DESIGN IS BASED. IF THE INFORMATION ON THIS PAGE IS NOT CORRECT, CONTACT THE FACTORY FOR FURTHER ANALYSIS AT (219) 936-4221 EXT. 5299. THE OWNER SHOULD BE CONSULTED TO CONFIRM THE ACTUAL TOWER ORIENTATION.

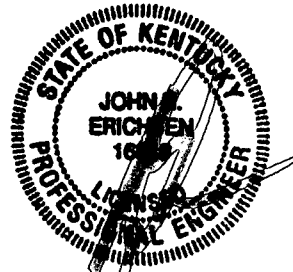


OCT 28 1999

				CROWN CASTEL USA, INC. NATCHER PARKWAY, KY # 36 X 400' GUYED TOWER			
				 1545 Pidco Dr. Plymouth, IN 46563-0128 219-936-4221			
APPROVED/ENG.	WBR	10/28/1999		APPROVED/FOUND	WBR	10/28/1999	
A	ADDED FOUNDATIONS	WBR	10/28/1999	DRAWN BY	KWD		
REV	DESCRIPTION OF REVISIONS	INI	DATE	ENG. FILE NO.	A-9910190C	DRAWING NO.	205571-B
From: 88129.DFT - 10/28/1999 14: 49				ARCHIVE	Q-88129	PAGE	4 OF 14
Printed from: 2055714A.DWG - 10/28/1999 15: 31 @ 10/28/1999 15: 42							

GENERAL NOTES

1. TOWER DESIGN CONFORMS TO STANDARD EIA/TIA-222-F FOR 70 MPH BASIC WIND SPEED WITH 0.50" RADIAL ICE WITH LOAD DUE TO WIND REDUCED BY 25% WHEN CONSIDERED SIMULTANEOUSLY WITH ICE.  
TOWER DESIGN CONFORMS TO STANDARD EIA/TIA-222-F FOR 70 MPH BASIC WIND SPEED WITH NO ICE.
2. MATERIAL: (A) SOLID RODS CONFORM TO ASTM A-572 GRADE 50 REQUIREMENTS.  
(B) ANGLES CONFORM TO ASTM A-36 REQUIREMENTS.  
(C) PIPE CONFORMS TO ASTM A-53 TYPE E, GRADE B REQUIREMENTS. (MIN YIELD STRENGTH=42 KSI)  
(D) ALL STEEL PLATES CONFORM TO ASTM A-36 REQUIREMENTS.
3. FINISH: HOT DIPPED GALVANIZED AFTER FABRICATION.
4. ANTENNAS:  
400' (12) DB878 USING 1-5/8" LINES MOUNTED ON THREE T-FRAME ASSEMBLIES.  
385' (12) DB878 USING 1-5/8" LINES MOUNTED ON THREE T-FRAME ASSEMBLIES.  
370' (12) DB878 USING 1-5/8" LINES MOUNTED ON THREE T-FRAME ASSEMBLIES.  
355' (2) 8' HIGH PERFORMANCE DISHES USING EW63 CABLE.  
340' (12) DB878 USING 1-5/8" LINES MOUNTED ON THREE T-FRAME ASSEMBLIES.
5. MIN. WELDS 5/16" UNLESS OTHERWISE SPECIFIED. ALL WELDING TO CONFORM TO AWS SPECS.
6. ALL BOLTS AND NUTS MUST BE IN PLACE BEFORE THE ADJOINING SECTION(S) ARE INSTALLED.
7. ALL A-325 BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC SPECIFICATION UNLESS OTHERWISE NOTED. A MORE QUANTITATIVE ALTERNATIVE APPROACH TO ACHIEVING A SNUG TIGHT CONDITION IS TO TIGHTEN USING THE TORQUE VALUES FROM DRAWING 123107-A.
8. EIA GROUNDING FOR TOWER.
9. DUAL LIGHT KIT (351' - 700')
10. ALL TRANSMISSION LINES MUST BE PLACED ON PIROD SUPPLIED TRANSMISSION LINE BRACKETS.



OCT 28 1999

CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUYED TOWER

APPROVED/ENG.	WBR	10/28/1999
APPROVED/FOUND.	N/A	
DRAWN BY	KWD	




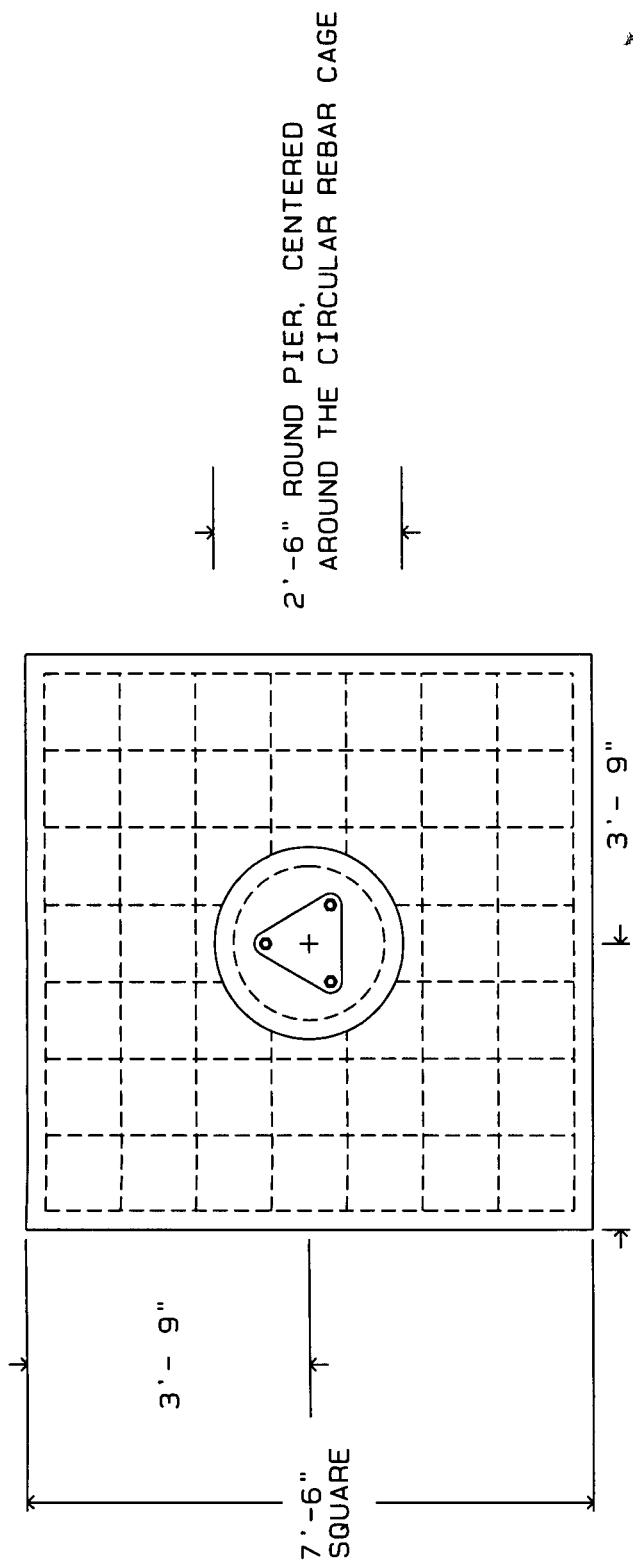
**FOUNDATION NOTES**

1. SOIL AS PER REPORT BY ATC ASSOCIATES, INC., DATED 10/4/99, (FILE #13000.9106).
2. CONCRETE TO BE 3000 PSI @28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. ALL FILL SHOULD BE PLACED IN LOOSE LEVEL LIFTS OF NO MORE THAN 12" THICK. FILL MATERIALS SHOULD BE CLEAN AND FREE OF ORGANIC AND FROZEN MATERIALS OR ANY OTHER DELETERIOUS MATERIALS. COMPACT FILL TO 97% OF STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
4. A COLD JOINT IS PERMISSIBLE, AT THE TOWER BASE ONLY, UPON CONSULTATION WITH PIROD. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.



OC 28 1999

				CROWN CASTEL USA, INC. NATCHER PARKWAY, KY # 36 X 400' GUYED TOWER		
				 1545 Pidco Dr. Plymouth, IN 46563-0128 219-936-4221		
A	ADDED FOUNDATIONS	WBR	10/28/1999	APPROVED/ENG.	WBR	10/28/1999
REV	DESCRIPTION OF REVISIONS	INI	DATE	DRAWN BY	KWD	
From: 88129.DFT - 10/28/1999 14: 49 Printed from: 2055716A.DWG - 10/28/1999 15: 31 @ 10/28/1999 15: 42\$				ENG. FILE NO. <b>A-9910190C</b> ARCHIVE Q-88129		DRAWING NO. <b>205571-B</b> PAGE 6 OF 14



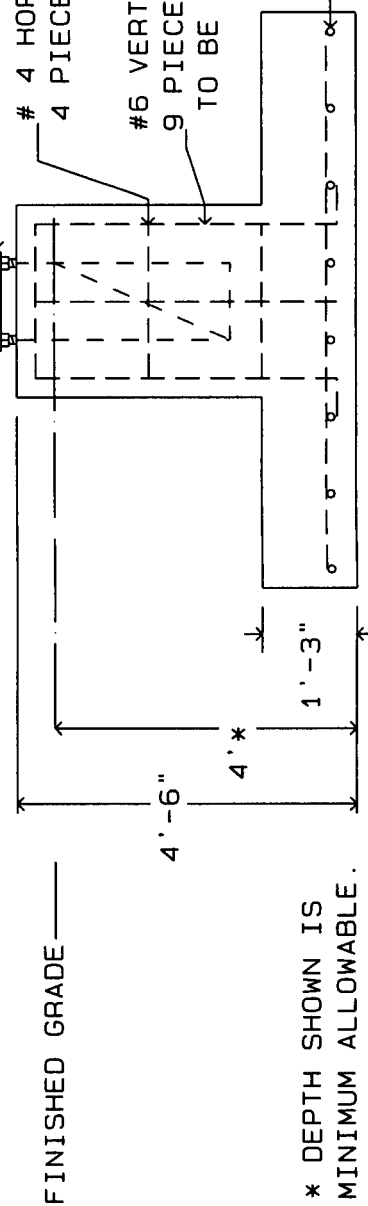
CAGE P/N 107261 CENTERED IN PIER. INSTALL WITH 6" OF THREADS EXPOSED. FOUNDATION PLATE P/N 107260. GROUT AFTER LEVELING PLATE - BEFORE ERECTING TOWER.

# 4 HORIZONTAL TIES - SEE (C) ON PAGE 8. 4 PIECES REQ., EQUALLY SPACED.

#6 VERTICAL REBAR, SEE (B) ON PAGE 8. 9 PIECES REQ., EQUALLY SPACED, TO BE PLACED INSIDE TIES.

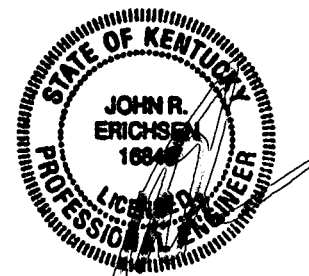
#5 HORIZONTAL BARS - SEE (A) ON PAGE 8. 8 EACH WAY, EVENLY SPACED.

NOTE: ALL REBAR IS EQUALLY SPACED AND REQUIRES MIN. 3" CONCRETE COVER.



\* DEPTH SHOWN IS MINIMUM ALLOWABLE. ACTUAL DEPTH MUST BE MIN. 6" BELOW LOCAL FROST LEVEL.

TOWER BASE FOUNDATION  
3.2 CU. YDS. CONCRETE REQUIRED



00 28 1999

CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUYED TOWER

APPROVED/ENG.	WBR	10/28/1999
APPROVED/FOUND	WBR	10/28/1999



1545 Pidco Dr.  
Plymouth, IN 46563-0128  
219-936-4221

A	ADDED FOUNDATIONS	WBR	10/28/1999
REV	DESCRIPTION OF REVISIONS	INI	DATE

DRAWN BY KWD

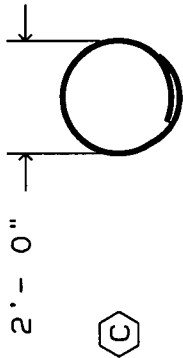
ENG. FILE NO. A-9910190C  
ARCHIVE Q-88129

DRAWING NO. 205571-B  
PAGE 7 OF 14

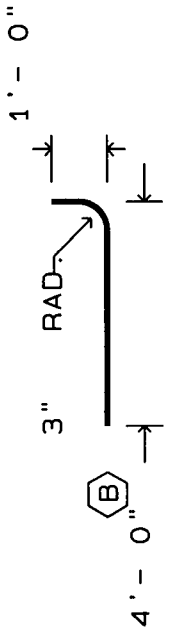
From: 88129.DFT - 10/28/1999 14: 49

Printed from: 2055717A.DWG - 10/28/1999 15: 32 @ 10/28/1999 15: 42

#4 REBAR - 4 PIECES REQUIRED TOTAL



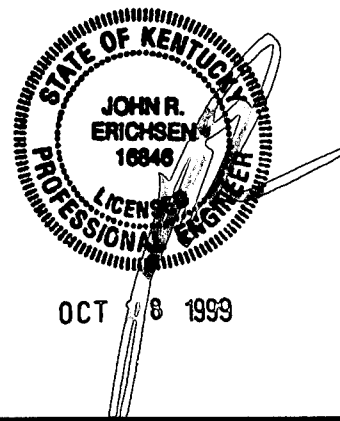
LAP DIMENSION: 1'-4-1/2"  
 PLACE REBAR RINGS SO THAT LAPS ON  
 ADJACENT RINGS ARE 180 DEGREES APART  
 APPROX UNBENT LENGTH = 7'-8"  
 APPROX WT = 5.1# EACH, 20# TOTAL



#6 REBAR - 9 PIECES REQUIRED TOTAL  
 APPROX UNBENT LENGTH = 4'-10-3/4"  
 APPROX WT = 7.4# EACH, 67# TOTAL




#5 REBAR - 16 PIECES REQUIRED TOTAL  
 APPROX WT = 7.3# EACH, 116# TOTAL



TOTAL APPROXIMATE REBAR WEIGHT = 203#  
 REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS

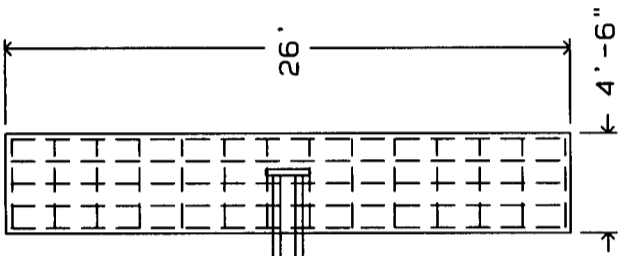
TOWER BASE FOUNDATION  
 REBAR DETAIL - NOT TO SCALE

				CROWN CASTEL USA, INC. NATCHER PARKWAY, KY # 36 X 400' GUYED TOWER		
				 1545 Pidco Dr. Plymouth, IN 46563-0128 219-936-4221		
A	ADDED FOUNDATIONS	WBR	10/28/1999	APPROVED/ENG.	WBR	10/28/1999
REV	DESCRIPTION OF REVISIONS	INI	DATE	APPROVED/FOUND	WBR	10/28/1999
				DRAWN BY	KWD	
From: 88129.DFT - 10/28/1999 14:49				ENG. FILE NO. A-9910190C		DRAWING NO. 205571-B
Printed from: 2055718A.DWG - 10/28/1999 15:32 @ 10/28/1999 15:42				ARCHIVE Q-88129		PAGE 8 OF 14



VERTICAL CENTERLINE OF ANCHOR HEAD MUST BE PLUMB +/- 2 DEGREES. ANCHOR RODS MUST BE STRAIGHT. CENTERLINE OF ANCHOR AND RODS MUST BE IN LINE WITH CENTERLINE OF TOWER +/- 1/2 DEGREE (ALL ANCHORS.)

SEE PAGE 4 FOR ACTUAL DISTANCE TO TOWER BASE AND RELATIVE HEIGHT.

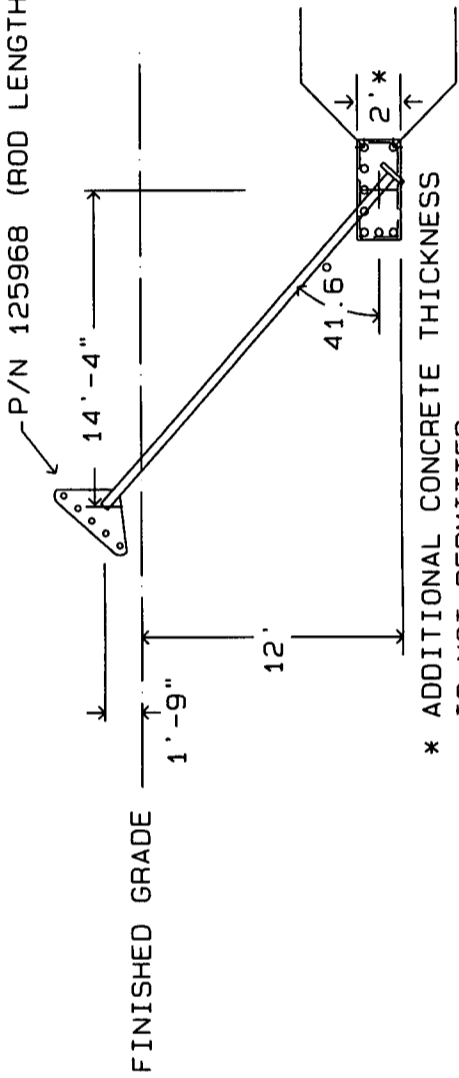


ALL REBAR IS EQUALLY SPACED AND REQUIRES MIN. 3" CONCRETE COVER.

FOR GUY WIRE INSTALLATION SEE DRAWING #104834-B.

FOR GUY HARDWARE SIZES SEE TABLE ON PAGE 3.

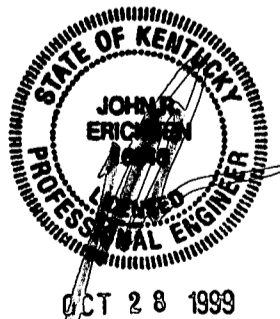
P/N 125968 (ROD LENGTH=20'.)



#11 HORIZONTAL BARS SEE (A) ON PAGE 10.  
 5 EA IN TOP  
 2 EA IN BOTTOM  
 1 EA IN FRONT (IN ADDITION TO THOSE IN THE TOP AND BOTTOM CORNERS.)

14 EA #4 BARS FORMED INTO RECTANGLE. SEE (B) ON PAGE 10.

\* ADDITIONAL CONCRETE THICKNESS IS NOT PERMITTED.



GUY ANCHOR AT LOCATION A-1 ONLY  
 1 REQUIRED - 8.7 CU. YDS. CONCRETE REQUIRED

CROWN CASTEL USA, INC.  
 NATCHER PARKWAY, KY  
 # 36 X 400' GUY ANCHORS

APPROVED/ENG. WBR 10/28/1999  
 APPROVED/FOUND WBR 10/28/1999



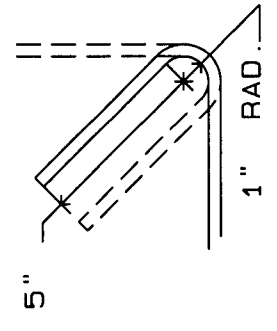
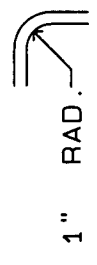
1545 Pidco Dr.  
 Plymouth, IN 46563-0128  
 219-936-4221

REV	DESCRIPTION OF REVISIONS	INI	DATE
A	ADDED FOUNDATIONS	WBR	10/28/1999

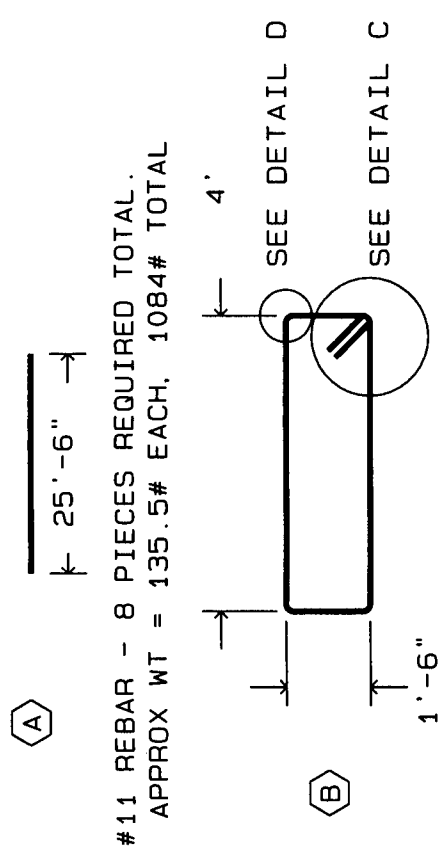
ENG. FILE NO. A-9910190C  
 ARCHIVE Q-88129

DRAWING NO. 205571-B  
 PAGE 9 OF 14

DETAIL D  
TYPICAL 90° BEND



DETAIL C  
TYPICAL 135° HOOK

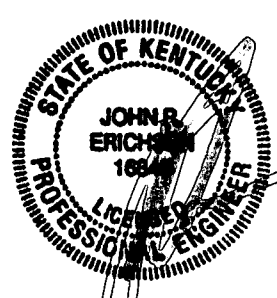


#11 REBAR - 8 PIECES REQUIRED TOTAL.  
APPROX WT = 135.5# EACH, 1084# TOTAL


#4 REBAR - 14 PIECES REQUIRED TOTAL.  
FORMED INTO A RECTANGLE WITH 135° HOOK AT BOTH ENDS  
APPROX UNBENT LENGTH = 11'-7-7/8"  
APPROX WT = 7.8# EACH, 109# TOTAL

TOTAL APPROXIMATE REBAR WEIGHT = 1193#  
REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS.

GUY ANCHOR AT LOCATION A-1 ONLY  
REBAR DETAIL - NOT TO SCALE

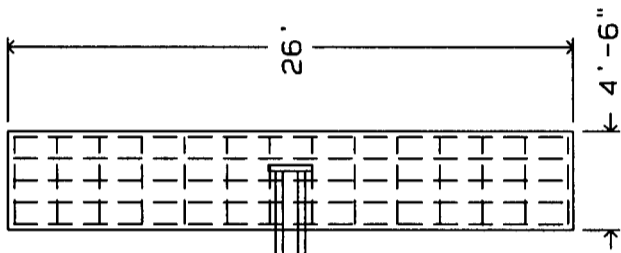


OCT 28 1999

				CROWN CASTEL USA, INC. NATCHER PARKWAY, KY # 36 X 400' GUY ANCHORS		
				 1545 Pidco Dr. Plymouth, IN 46563-0128 219-936-4221		
APPROVED/ENG.	WBR	10/28/1999		APPROVED/FOUND	WBR	10/28/1999
A	ADDED FOUNDATIONS	WBR	10/28/1999	DRAWN BY	KWD	
REV	DESCRIPTION OF REVISIONS	INI	DATE	ENG. FILE NO.	A-9910190C	DRAWING NO. 205571-B
From: 88129.DFT - 10/28/1999 14:49				ARCHIVE	Q-88129	PAGE 10 OF 14
Printed from: 205571AA.DWG - 10/28/1999 15:32 @ 10/28/1999 15:42						

VERTICAL CENTERLINE OF ANCHOR HEAD MUST BE PLUMB +/- 2 DEGREES. ANCHOR RODS MUST BE STRAIGHT. CENTERLINE OF ANCHOR AND RODS MUST BE IN LINE WITH CENTERLINE OF TOWER +/- 1/2 DEGREE (ALL ANCHORS.)

SEE PAGE 4 FOR ACTUAL  
← DISTANCE TO TOWER BASE  
AND RELATIVE HEIGHT.

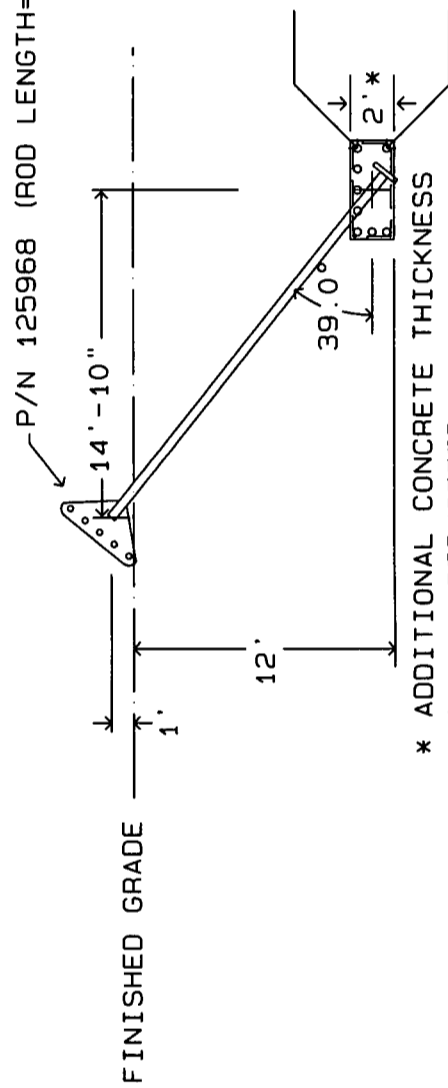


ALL REBAR IS EQUALLY SPACED AND REQUIRES MIN. 3" CONCRETE COVER.

FOR GUY WIRE INSTALLATION SEE DRAWING #104834-B.

FOR GUY HARDWARE SIZES SEE TABLE ON PAGE 3.

P/N 125968 (ROD LENGTH=20'.)



#11 HORIZONTAL BARS SEE (A) ON PAGE 12.  
5 EA IN TOP  
2 EA IN BOTTOM  
1 EA IN FRONT (IN ADDITION TO THOSE IN THE TOP AND BOTTOM CORNERS.)  
14 EA #4 BARS FORMED INTO RECTANGLE. SEE (B) ON PAGE 12.

\* ADDITIONAL CONCRETE THICKNESS IS NOT PERMITTED.

GUY ANCHOR AT LOCATION B-1 ONLY  
1 REQUIRED - 8.7 CU. YDS. CONCRETE REQUIRED



0 2 6 1999

CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUY ANCHORS

APPROVED/ENG. WBR 10/28/1999  
APPROVED/FOUND. WBR 10/28/1999

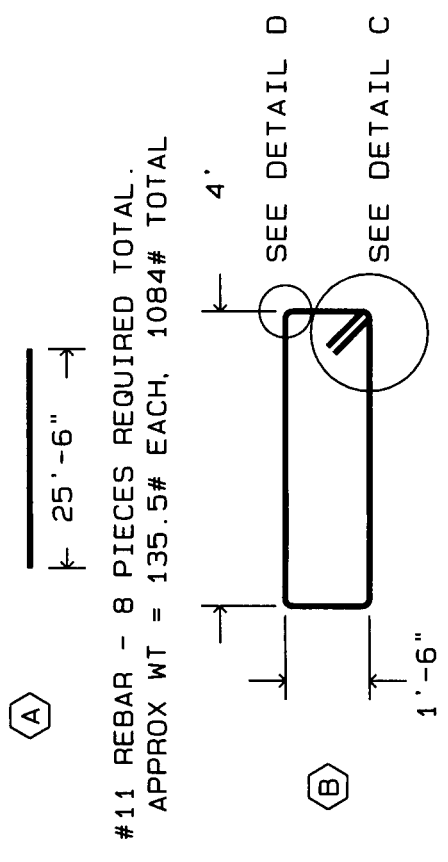
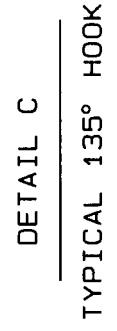
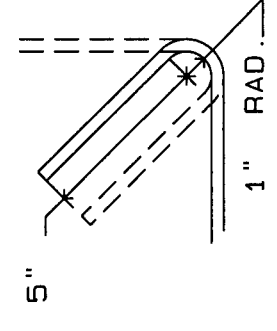
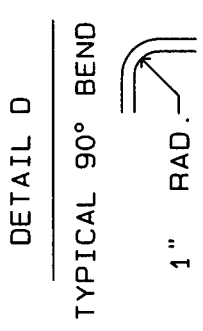


1545 Pidco Dr.  
Plymouth, IN 46563-0128  
219-936-4221

REV	DESCRIPTION OF REVISIONS	INI	DATE
A	ADDED FOUNDATIONS	WBR	10/28/1999

DRAWN BY KWD  
ENG. FILE NO. A-9910190C  
ARCHIVE Q-88129

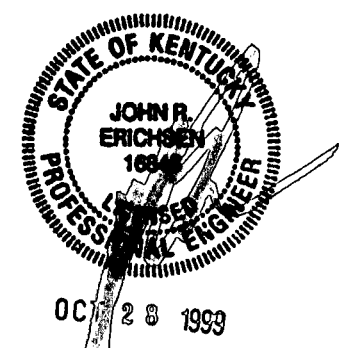
DRAWING NO. 205571-B  
PAGE 11 OF 14



#4 REBAR - 14 PIECES REQUIRED TOTAL.  
FORMED INTO A RECTANGLE WITH 135° HOOK AT BOTH ENDS  
APPROX UNBENT LENGTH = 11' - 7 - 7/8"  
APPROX WT = 7.8# EACH, 109# TOTAL

TOTAL APPROXIMATE REBAR WEIGHT = 1193#  
REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS.

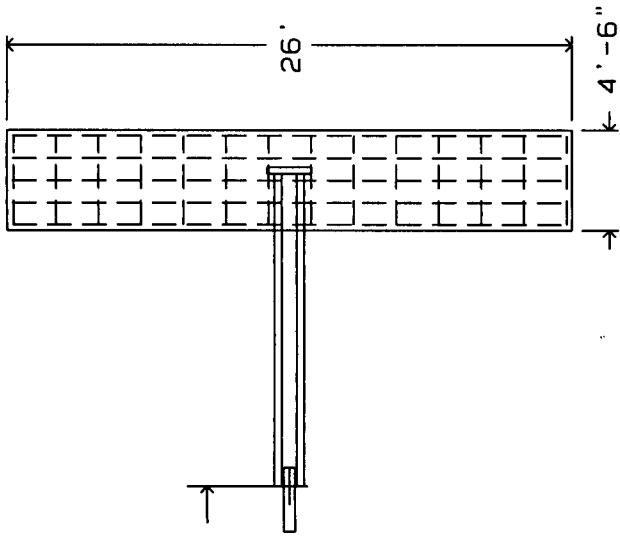
GUY ANCHOR AT LOCATION B-1 ONLY  
REBAR DETAIL - NOT TO SCALE



				CROWN CASTEL USA, INC. NATCHER PARKWAY, KY # 36 X 400' GUY ANCHORS			
APPROVED/ENG.		WBR	10/28/1999	 1545 Pidco Dr. Plymouth, IN 46563-0128 219-936-4221			
APPROVED/FOUND.		WBR	10/28/1999				
A	ADDED FOUNDATIONS	WBR	10/28/1999				
REV	DESCRIPTION OF REVISIONS	INI	DATE	DRAWN BY	KWD		
From: 88129.DFT - 10/28/1999 14: 49				ENG. FILE NO.	A-9910190C	DRAWING NO.	205571-B
Printed from: 205571CA.DWG - 10/28/1999 15: 32 @ 10/28/1999 15: 42				ARCHIVE	Q-88129	PAGE	12 OF 14

VERTICAL CENTERLINE OF ANCHOR HEAD MUST BE PLUMB +/- 2 DEGREES. ANCHOR RODS MUST BE STRAIGHT. CENTERLINE OF ANCHOR AND RODS MUST BE IN LINE WITH CENTERLINE OF TOWER +/- 1/2 DEGREE (ALL ANCHORS.)

SEE PAGE 4 FOR ACTUAL  
← DISTANCE TO TOWER BASE  
AND RELATIVE HEIGHT.

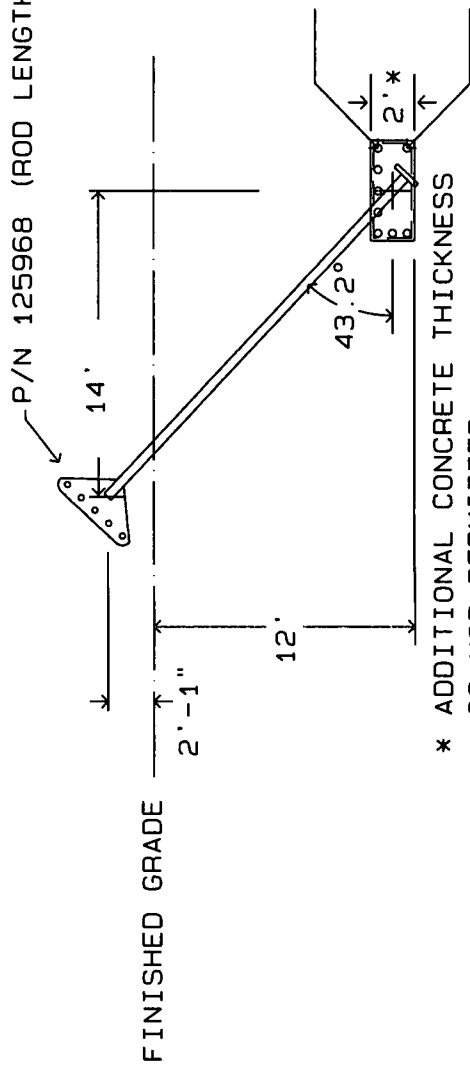


ALL REBAR IS EQUALLY SPACED AND REQUIRES MIN. 3" CONCRETE COVER.

FOR GUY WIRE INSTALLATION SEE DRAWING #104834-B.

FOR GUY HARDWARE SIZES SEE TABLE ON PAGE 3.

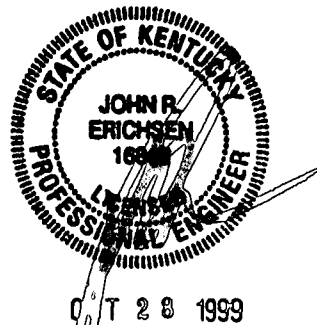
P/N 125968 (ROD LENGTH=20'.)



#11 HORIZONTAL BARS SEE (A) ON PAGE 14.  
5 EA IN TOP  
2 EA IN BOTTOM  
1 EA IN FRONT (IN ADDITION TO THOSE IN THE TOP AND BOTTOM CORNERS.)  
14 EA #4 BARS FORMED INTO RECTANGLE. SEE (B) ON PAGE 14.

\* ADDITIONAL CONCRETE THICKNESS IS NOT PERMITTED.

GUY ANCHOR AT LOCATION C-1 ONLY  
1 REQUIRED - 8.7 CU. YDS. CONCRETE REQUIRED



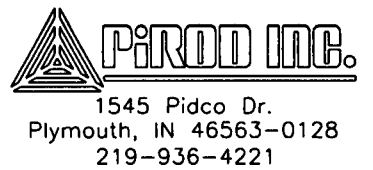
CROWN CASTEL USA, INC.  
NATCHER PARKWAY, KY  
# 36 X 400' GUY ANCHORS

APPROVED/ENG. WBR 10/28/1999

APPROVED/FOUND. WBR 10/28/1999

DRAWN BY KWD

ENG. FILE NO. A-9910190C  
ARCHIVE Q-88129

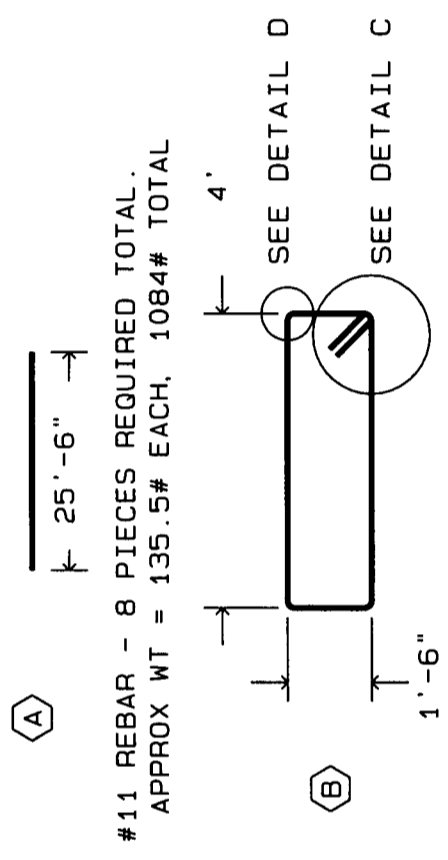
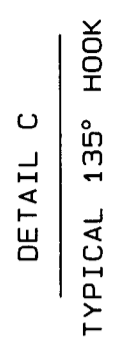
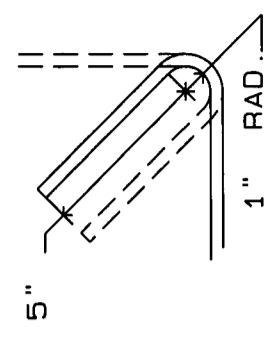
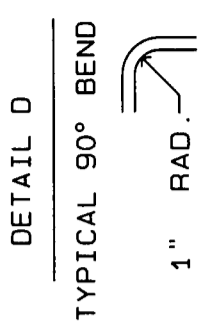


DRAWING NO. 205571-B  
PAGE 13 OF 14

REV	DESCRIPTION OF REVISIONS	INI	DATE
A	ADDED FOUNDATIONS	WBR	10/28/1999

From: 88129.DFT - 10/28/1999 14: 49

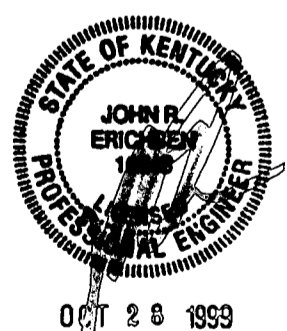
Printed from: 205571DA.DWG - 10/28/1999 15: 32 @ 10/28/1999 15: 42



#4 REBAR - 14 PIECES REQUIRED TOTAL.  
FORMED INTO A RECTANGLE WITH 135° HOOK AT BOTH ENDS  
APPROX UNBENT LENGTH = 11'-7-7/8"  
APPROX WT = 7.8# EACH, 109# TOTAL

TOTAL APPROXIMATE REBAR WEIGHT = 1193#  
REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS.

GUY ANCHOR AT LOCATION C-1 ONLY  
REBAR DETAIL - NOT TO SCALE



				CROWN CASTEL USA, INC. NATCHER PARKWAY, KY # 36 X 400' GUY ANCHORS		
				APPROVED/ENG. WBR 10/28/1999		 1545 Pidco Dr. Plymouth, IN 46563-0128 219-936-4221
				APPROVED/FOUND WBR 10/28/1999		
A	ADDED FOUNDATIONS	WBR	10/28/1999			
REV	DESCRIPTION OF REVISIONS	INI	DATE	DRAWN BY	KWD	
From: 88129.DFT - 10/28/1999 14:49				ENG. FILE NO. A-9910190C		DRAWING NO. 205571-B
Printed from: 205571EA.DWG - 10/28/1999 15:32 @ 10/28/1999 15:42				ARCHIVE Q-88129		PAGE 14 OF 14

**EXHIBIT D**  
**COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST**

**COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST:**

1. American Tower
2. APEX
3. Tritel Communications
4. Nextel Partners
5. Spectra Site
6. CommNet
7. GTE Mobilenet, Inc.
8. BellSouth Mobility, Inc.
9. BellSouth Wireless Cable, Inc.
10. NextelWave
11. Powertel Kentucky, Inc.
12. SBA
13. Sprint PCS



**EXHIBIT E  
COLLOCATION REPORT**

## COLLOCATION STATEMENT FOR NATCHER PKWY.

*The following are a listing of Towers and/or facilities located within a "1 mile radius" of the candidate search ring.*

*Alt. Site C1: This is a Mid Valley Pipeline site approximately 180' in height.*

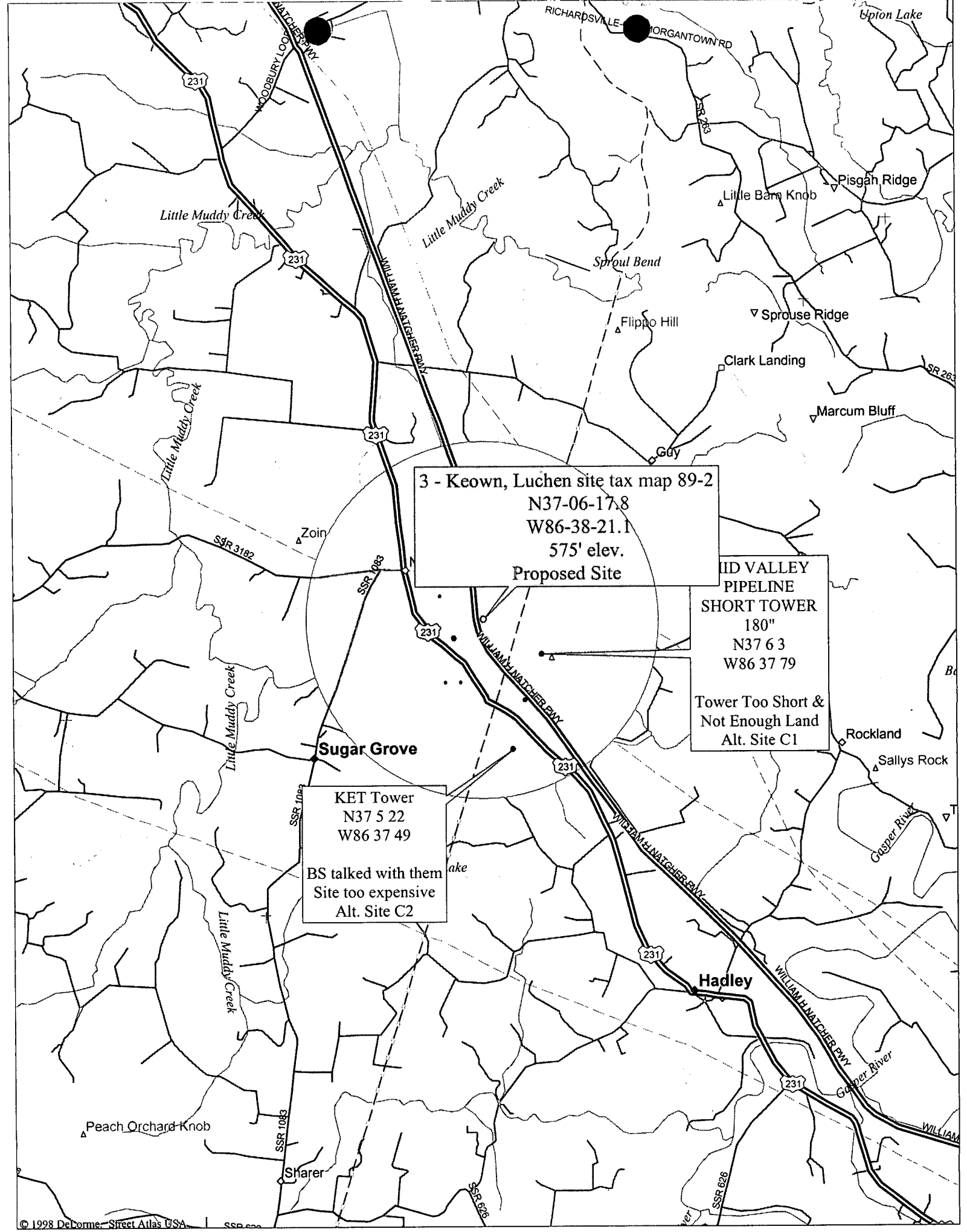
*The reference site owned by Mid Valley Pipeline is not suitable for collocation for the following reasons:*

- This tower or facility is not sufficient height to meet applicant's engineering requirements.*
- The facility's compound is not sufficient in size to accommodate additional carriers.*
- The existing height of the facility is insufficient to meet radio propagation requirements for the applicant's network.*

*Alt. Site C2: This is a KET site approximately 500' in height.*

*The reference site owned by the Kentucky Educational Network is not suitable for collocation for the following reasons:*

- Unwillingness of the present owner's to entertain collocation possibilities:*



3 - Keown, Luchen site tax map 89-2  
N37-06-17.8  
W86-38-21.1  
575' elev.  
Proposed Site

WID VALLEY  
PIPELINE  
SHORT TOWER  
180"  
N37 6 3  
W86 37 79  
Tower Too Short &  
Not Enough Land  
Alt. Site C1

KET Tower  
N37 5 22  
W86 37 49  
BS talked with them  
Site too expensive  
Alt. Site C2

**EXHIBIT F  
APPLICATION TO FAA**



**EXHIBIT G**  
**APPLICATION TO KENTUCKY AIRPORT ZONING COMMISSION**

KENTUCKY TRANSPORTATION CABINET, DIVISION OF AERONAUTICS, 125 HOLMES STREET, FRANKFORT, KY 40622

AERONAUTICAL STUDY NUMBER

## APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

- INSTRUCTIONS ON REVERSE SIDE OF FORM -

<b>1. NATURE OF PROPOSAL</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; border: 1px solid black; padding: 2px;"> <b>A. TYPE</b>  <input checked="" type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> ALTERATION             </td> <td style="width: 33%; border: 1px solid black; padding: 2px;"> <b>B. CLASS</b>  <input checked="" type="checkbox"/> PERMANENT  <input type="checkbox"/> TEMPORARY             </td> <td style="width: 33%; border: 1px solid black; padding: 2px;"> <b>C. WORK SCHEDULE</b>                  After FAA                  BEGIN <u>Approval</u>                  END <u>Within 18 Months</u> </td> </tr> </table>			<b>A. TYPE</b> <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ALTERATION	<b>B. CLASS</b> <input checked="" type="checkbox"/> PERMANENT <input type="checkbox"/> TEMPORARY	<b>C. WORK SCHEDULE</b> After FAA BEGIN <u>Approval</u> END <u>Within 18 Months</u>	<b>2. DESCRIPTION OF STRUCTURE</b> The proposed site is located 4,100' Southeast from the intersection of U.S. Route 231 and State Route 1083. (chart attached). The site is located 13.49 NM on a True Bearing of 308.78° from the ARP of BOWLING GREEN-WARREN COUNTY RE.								
<b>A. TYPE</b> <input checked="" type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> ALTERATION	<b>B. CLASS</b> <input checked="" type="checkbox"/> PERMANENT <input type="checkbox"/> TEMPORARY	<b>C. WORK SCHEDULE</b> After FAA BEGIN <u>Approval</u> END <u>Within 18 Months</u>												
<b>3A. APPLICANT - NAME, ADDRESS &amp; TELEPHONE</b> Shawn A. Dunlap BellSouth Mobility c/o Crown Communications, Inc. 375 Southpointe Boulevard Canonsburg, PA 15317 (724) 416-2247			<b>3B. REPRESENTATIVE OF APPLICANT - NAME, ADDRESS &amp; TELEPHONE</b> Clinton T. Papenfuss Airspace Safety Analysis Corporation 1745 Phoenix Boulevard, Suite 120 Atlanta, Georgia 30349 (770) 994-1557											
<b>4. LOCATION OF STRUCTURE</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; border: 1px solid black; padding: 2px;"> <b>A. GEOGRAPHIC COORDINATES (NEAREST SECOND)</b> </td> <td style="width: 20%; border: 1px solid black; padding: 2px;"> <b>B. NEAREST KY CITY</b>                  Needmore             </td> <td style="width: 20%; border: 1px solid black; padding: 2px;"> <b>C. NEAREST KY AIRPORT</b>                  BOWLING GREEN-WARREN COUNTY REGIONAL             </td> <td style="width: 20%; border: 1px solid black; padding: 2px;"> <b>A. SITE ELEVATION (ABOVE MEAN SEA LEVEL)</b>                  541'             </td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">                 LATITUDE                  37° 06" 19.18'             </td> <td style="border: 1px solid black; padding: 2px;">                 (1) DISTANCE TO 4B                  4100             </td> <td style="border: 1px solid black; padding: 2px;">                 (1) DISTANCE TO RUNWAY                  13.28 NM             </td> <td style="border: 1px solid black; padding: 2px;"> <b>B. HEIGHT OF STRUCTURE, INCLUDING APPURTENANCES AND LIGHTS (ABOVE GROUND LEVEL)</b>                  425'             </td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">                 LONGITUDE                  086° 38" 19.62'             </td> <td style="border: 1px solid black; padding: 2px;">                 (2) DIRECTION TO 4B                  Northwest             </td> <td style="border: 1px solid black; padding: 2px;">                 (2) DIRECTION TO AIRPORT                  128.65°             </td> <td style="border: 1px solid black; padding: 2px;"> <b>C. OVERALL HEIGHT (AMSL) (A+B)</b>                  966'             </td> </tr> </table>						<b>A. GEOGRAPHIC COORDINATES (NEAREST SECOND)</b>	<b>B. NEAREST KY CITY</b> Needmore	<b>C. NEAREST KY AIRPORT</b> BOWLING GREEN-WARREN COUNTY REGIONAL	<b>A. SITE ELEVATION (ABOVE MEAN SEA LEVEL)</b> 541'	LATITUDE 37° 06" 19.18'	(1) DISTANCE TO 4B 4100	(1) DISTANCE TO RUNWAY 13.28 NM	<b>B. HEIGHT OF STRUCTURE, INCLUDING APPURTENANCES AND LIGHTS (ABOVE GROUND LEVEL)</b> 425'	LONGITUDE 086° 38" 19.62'
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LONGITUDE 086° 38" 19.62'	(2) DIRECTION TO 4B Northwest	(2) DIRECTION TO AIRPORT 128.65°	<b>C. OVERALL HEIGHT (AMSL) (A+B)</b> 966'											
<b>6. OBSTRUCTION MARKING &amp; LIGHTING</b>			YES	NO										
A. MARKED FOR THE PROTECTION OF AIR NAVIGATION (FLAGS, SPHERES, ETC.)			X	X										
B. OBSTRUCTION MARKED IN ACCORDANCE WITH 602KAR50:100 (FAA AC 70/7460-1H)			X	X										
C. OBSTRUCTION LIGHTED IN ACCORDANCE WITH 602KAR50:100 (FAA AC 70/7460-1H)			X	X										
<b>7. HAS "NOTICE OF CONSTRUCTION OR ALTERATION" (FORM 7460-1) BEEN FILED WITH THE FEDERAL AVIATION ADMINISTRATION? IF SO, WHEN?</b>														
<b>8. CERTIFICATION - I HEREBY CERTIFY THAT ALL THE ABOVE STATEMENTS MADE BY ME ARE TRUE, COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>														
BY <u>John Binkley</u> Vice President/General Manager			DATE <u>10/18/1999</u>											
NAME (PRINTED), SIGNATURE & TITLE			DATE											
PENALTIES. PERSONS FAILING TO COMPLY WITH KENTUCKY REVISED STATUTES AND KENTUCKY AIRPORT ZONING COMMISSION ADMINISTRATIVE REGULATIONS ARE LIABLE FOR FINES OR IMPRISONMENT AS SET FORTH IN KRS 183.990(3). NON-COMPLIANCE WITH FEDERAL AVIATION ADMINISTRATION REGULATIONS MAY RESULT IN FURTHER PENALTIES.														
COMMISSION ACTION	CHAIRMAN, KAZC (OR) ADMINISTRATOR, KAZC													
APPROVED	DATE													
DISAPPROVED	DATE													

**EXHIBIT H  
GEOTECHNICAL REPORT**





***GEOTECHNICAL ENGINEERING STUDY  
CROWN COMMUNICATIONS  
NATCHER PARKWAY KY279 TOWER  
MORGANTOWN, KENTUCKY  
ATC Project No. 13000.9106***

*Prepared For:*

*Crown Communications, Inc.  
11001 Bluegrass Parkway, Suite 330  
Louisville, Kentucky 40299*

*Attention: Ms. Lisa Miller*



2815 Watterson Trail  
Louisville, Kentucky 40299  
502.267.8355  
Fax 502.267.8528

October 4, 1999

Crown Communications, Inc.  
11001 Bluegrass Parkway, Suite 330  
Louisville, Kentucky 40299

Attention: Ms. Lisa Miller

Re: Geotechnical Engineering Study  
Proposed Natcher Parkway KY 279 Tower  
Morgantown, Kentucky  
ATC Project No. 13800.9106

Gentlemen:

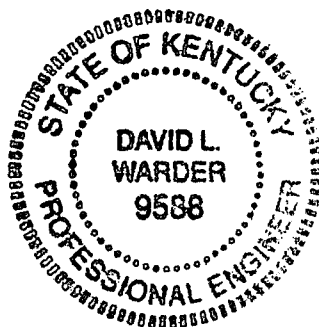
Transmitted herewith is our geotechnical engineering report for the referenced project as authorized in accordance with our January 15, 1998 proposal for environmental and geotechnical support services. This report contains our findings, an engineering interpretation of these findings with respect to the available project characteristics, and recommendations to aid design and construction of the tower foundations. We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact our office.

Cordially,

ATC Associates Inc.

A handwritten signature in black ink, appearing to read 'Michael A. Hightchew'.

Michael A. Hightchew, EIT  
Staff Engineer



A handwritten signature in black ink, appearing to read 'David L. Warder'.

David L. Warder, PE  
Regional Geotechnical Engineer

Copies submitted: (4) Ms. Lisa Miller

# LETTER OF TRANSMITTAL

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## APPENDIX

SITE VICINITY MAP  
GEOTECHNICAL BORING LOG  
SOIL SAMPLE CLASSIFICATION  
MATERIAL GRAPHICS LEGEND

## GEOTECHNICAL ENGINEERING INVESTIGATION

### **Proposed Natcher Parkway KY 279 Tower**

Morgantown, Kentucky  
ATC Project No. 13000.9106

#### **1. PURPOSE AND SCOPE**

The purpose of this study was to determine the general subsurface conditions at the location of the proposed tower by drilling one soil test boring and to evaluate this data with respect to foundations concept and design for the proposed tower. Also included is an evaluation of the site with respect to potential construction problems and recommendations dealing with quality control during construction. No test borings were drilled at the proposed guy anchor locations due to the locations being inaccessible. Please note that the scope of our study did not include any investigation to determine the mining history of the site to establish the presence or absence of mining below the site.

#### **2. PROJECT CHARACTERISTICS**

Crown Communications is planning to construct a guyed communications tower east of the Natcher Parkway near its intersection with Clark Landing Road in Butler County, Kentucky. The proposed tower location is shown on the Site Vicinity Map in the Appendix. The site is on a wooded lot.

We assume that the 450 foot tower will be supported on a concrete foundation with guy anchors radiating from the tower 120 degrees apart and the guy cables secured by concrete dead-weight

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anchors located within approximately 250 feet from the tower center. No foundation design loads had been provided. We assume that the maximum downward load on the tower will not exceed about 200 kips and that the maximum uplift and lateral forces in the guy anchors will be in the range of 75 to 100 kips/anchor. The development will also include a small equipment building near the base of the tower.

### **3. SUBSURFACE CONDITIONS**

The subsurface conditions were explored by drilling one test boring at the proposed tower location, which was staked in the field by the project surveyor. Due to the steep grade and the heavy tree cover, the anchor locations were inaccessible to the drill rig and the investigation was limited to a single boring at the tower center. The Geotechnical Soil Test Boring Log, which is included in the Appendix, describes the materials and conditions encountered. A sheet defining the terms and symbols used on the boring log and explaining the Standard Penetration Test (SPT) procedure can also be found in the Appendix. The general subsurface conditions disclosed by the test boring are discussed in the following paragraphs.

About 18 inches of topsoil was encountered at the ground surface. The boring then encountered silty clay (CL) of relatively low plasticity to a depth of 18.5 feet. The SPT N-values in the silty clay ranged from 12 to 51 blows per foot indicating a stiff to hard consistency. Weathered shale was encountered below the silty clay. The weathered shale was penetrated by the soil auger to a depth of 36 feet.

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The boring encountered auger refusal at a depth of 36 feet below the existing ground surface. Auger refusal is the depth below which a test boring can no longer be advanced with hollow stem augers. Core drilling is required to determine the character and continuity of auger refusal material.

Groundwater observations made at the completion of drilling operations indicated the boring to be dry. It must be noted, however, that short term water readings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is generally not stationary, but will fluctuate seasonally.

According to the Seismic Zone Map of the United States, Butler County, Kentucky is within Zone 1. In this system, Zone 3 is the most seismically active while Zone 0 has the lowest earthquake potential. Considering the subsurface conditions encountered at the site and Table 16-J in the 1997 Uniform Building Code, the soil-profile type is  $S_c$ .

#### **4. FOUNDATION DESIGN RECOMMENDATIONS**

The following design recommendations have been developed on the basis of the previously described project characteristics (Section 2.0) and subsurface conditions (Section 3.0). The recommendations are based on the assumption that the subsurface conditions at the anchor locations are similar to these at the tower center. Because of the variable topography at the site, this assumption may not be valid. Unless additional test borings are made prior to tower construction, this office should be notified if different conditions are noted at the anchor locations. We should also be notified if the project description included herein is incorrect or if the proposed structure location is changed to establish if revisions to the following recommendations are necessary.

#### **4.1. Tower Foundation**

Our findings indicate that the proposed tower can be supported on a spread footing bearing at or below a depth of 4 feet below the existing ground surface. The footing can be designed for a net allowable soil pressure of 4,000 lbs/sq.ft. It is important that the foundation excavation be carefully inspected as described in Section 5.1 to insure that the foundation will bear on suitable material.

In using net pressures, the weight of the foundation and backfill over the foundation need not be considered; hence, only loads applied at or above the existing ground surface elevation need to be used for dimensioning the foundation. The bottom of the tower foundation should bear at a depth of at least 2.5 feet below the final exterior grade for frost protection.

It is estimated that resulting foundation settlements should not exceed about 1.0 inch. Careful field control will contribute substantially to minimizing the settlements.

#### **4.2. Guy Anchors**

The guy anchor blocks must be designed to resist both the uplift and horizontal components of the guy cable forces. The uplift force will be resisted by the dead weight of the anchor block as well as the soil material that is placed over the anchor block. Unless a very high factor of safety is used, only the weight of the soil immediately above and within the perimeter of the anchor block should be used in calculating uplift resistance. A total soil unit weight of 120 lbs/cu. ft. can be used for the

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backfill material that is placed above the anchor blocks, provided it is compacted as recommended in Section 5.2. Using this procedure, it is recommended that a safety factor of at least 1.2 be used for calculating uplift resistance from an anchor block, provided only the weight of the anchor block and the soil immediately above it are used to resist uplift forces.

The horizontal component of the guy force must be resisted by the "passive" earth pressure that is developed along the face of the anchor block. It is recommended that an allowable passive pressure of 1,200 lb./sq.ft. be used for that portion of the anchor block that is below a depth of 2.0 feet. No passive resistance should be included for any portion of the anchor block that is located within the upper 2.0 feet.

#### **4.3. Equipment Building**

The equipment building may be supported on shallow, spread footings bearing in the natural silty clay soil and designed for a net allowable soil pressure of 2,500 pounds per square foot. The footings should be at least ten inches wide and should bear at a depth of at least 30 inches to minimize the effects of frost action. Any topsoil, frozen or excessively soft material must also be removed beneath footings.

The floor slab for the new equipment building may be subgrade supported on a properly prepared subgrade. The fill material can be left in place under the floor slab if some risk for greater than normal settlement can be tolerated by the client. The slab should be designed and adequately reinforced to resist the loads proposed. The exposed subgrade should be carefully inspected by



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probing and testing as needed. Any organic material (topsoil or roots) still in place, frozen or excessively soft soil and other undesirable materials should be removed.

Once the subgrade has been properly prepared and evaluated, fill may be placed to attain the desired final grade. Any non-organic, naturally occurring, non-expansive soils can be used for structural fill, including those encountered on this site, pending evaluation by the geotechnical engineer.

All engineered fill should be compacted to a dry density of at least 100 percent of the standard Proctor maximum dry density (ASTM D698). The compaction should be accomplished by placing the fill in about eight inch loose lifts and mechanically compacting each lift to at least the specified density. Field tests should be performed on each lift as necessary to insure that adequate compaction is being achieved.

Surface run-off water should be drained away from the building and not allowed to pond. It is recommended that all foundation concrete be placed the same day the excavation is made.

## **5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS**

It is possible that variations in subsurface conditions will be encountered during construction. This is particularly true of the guy anchor locations, where conditions may vary from those encountered in the test boring at the tower center. It is recommended the geotechnical engineer or a representative be retained to perform continuous inspection and review during construction

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of the soils-related phases of the work. This will permit correlation between the test boring data and the actual soil conditions encountered during construction.

### **5.1. Tower Foundation Excavation**

The tower foundation excavation should be inspected by the geotechnical engineer or a qualified soils technician to insure that all undesirable material is removed and that the foundation will bear on satisfactory material as described in Section 4.1. At the time of such inspection, it will be necessary to make hand auger borings or use a hand penetration device in the base of the foundation excavation to insure that the soils below the base are satisfactory for foundation support. The necessary depth of penetration will be established during inspection.

Where undercutting is required in order to remove unsuitable materials at the tower foundation location, a higher foundation bearing elevation may be re-established by backfilling after all undesirable materials have been removed or the foundation can be placed at the lower depth. The undercut excavation beneath the foundation should extend to suitable bearing soils and the dimensions of the excavation base should be determined by imaginary planes extending outward and down on a 2 (vertical) to 1 (horizontal) slope from the base perimeter of the foundation. The entire excavation should then be refilled with a well-compacted granular fill as described in Section 5.2 or lean concrete may be used. Special care should be exercised to remove any sloughed, loose or soft materials near the base of the excavation slopes with benches as necessary, to insure that no pockets of loose or soft materials will be left in place along the excavation slopes below the foundation bearing level.

Soils exposed in the base of the foundation excavation should be protected against any detrimental changes in conditions such as from disturbance, rain and freezing. Surface run-off water should be drained away from the excavation and not allowed to pond. If possible, all concrete should be placed that same day the excavation is made. If this is not practical, the excavation should be adequately protected.

## **5.2. Fill Compaction**

All engineered fill placed adjacent to and above the tower foundation and guy anchor blocks should be compacted to a dry density of at least 95 percent of the standard Proctor maximum dry density (ASTM D-698). This minimum compaction requirement should be increased to 100 percent for any fill placed below the tower foundation bearing elevation. Any fill placed beneath the tower foundation should be limited to well-graded sand and gravel, crushed stone, or lean concrete. The compaction should be accomplished by placing the fill in about 8 inch (or less) loose lifts and mechanically compacting each lift to at least the specified minimum dry density. Field density test should be performed on each lift as necessary to insure that adequate moisture conditioning and compaction is being achieved.

Compaction by flooding is not considered acceptable. This method will generally not achieve the desired compaction and the large quantities of water will tend to soften the foundation soils.

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### **5.3. Construction Dewatering**

No serious dewatering problems are anticipated. At the time of our investigation, the ground water level appeared to be below the anticipated excavation depths. However, depending upon seasonal conditions, some minor seepage into excavations may be experienced. It is anticipated that any such seepage can be handled by conventional dewatering methods such as pumping from sumps.

## **6. FIELD INVESTIGATION**

One soil test boring was drilled at the location established in the field by the project surveyor. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in the test boring. The boring was extended to the auger refusal depth of 36 feet below existing grade. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

The boring log is included in the Appendix along with a sheet defining the terms and symbols used on the log and an explanation of the Standard Penetration Test (SPT) procedure. The log presents visual descriptions of the soil strata encountered, Unified System soil classifications, groundwater observations, sampling information, laboratory test results, and other pertinent field data and observations.

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**7. LABORATORY INVESTIGATION**

The split-spoon samples were inspected and visually classified by a geotechnical engineer in general accordance with the Unified Soil Classification System and the field boring log were edited as necessary. To aid in classifying the soil samples and to check the general soil characteristics pocket penetrometer and moisture content tests were performed on selected samples. The results of these tests are included on the boring log.

**8. WARRANTY AND LIMITATIONS OF STUDY**

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either express or implied. ATC Associates Inc. is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

A geotechnical study is inherently limited since the engineering recommendations are developed from information obtained from a test boring that only depicts subsurface conditions at the specific location, time and depth shown on the log. Soil conditions at other locations may differ from those encountered in the test boring, and the passage of time may cause the soil conditions to change from those described in this report.

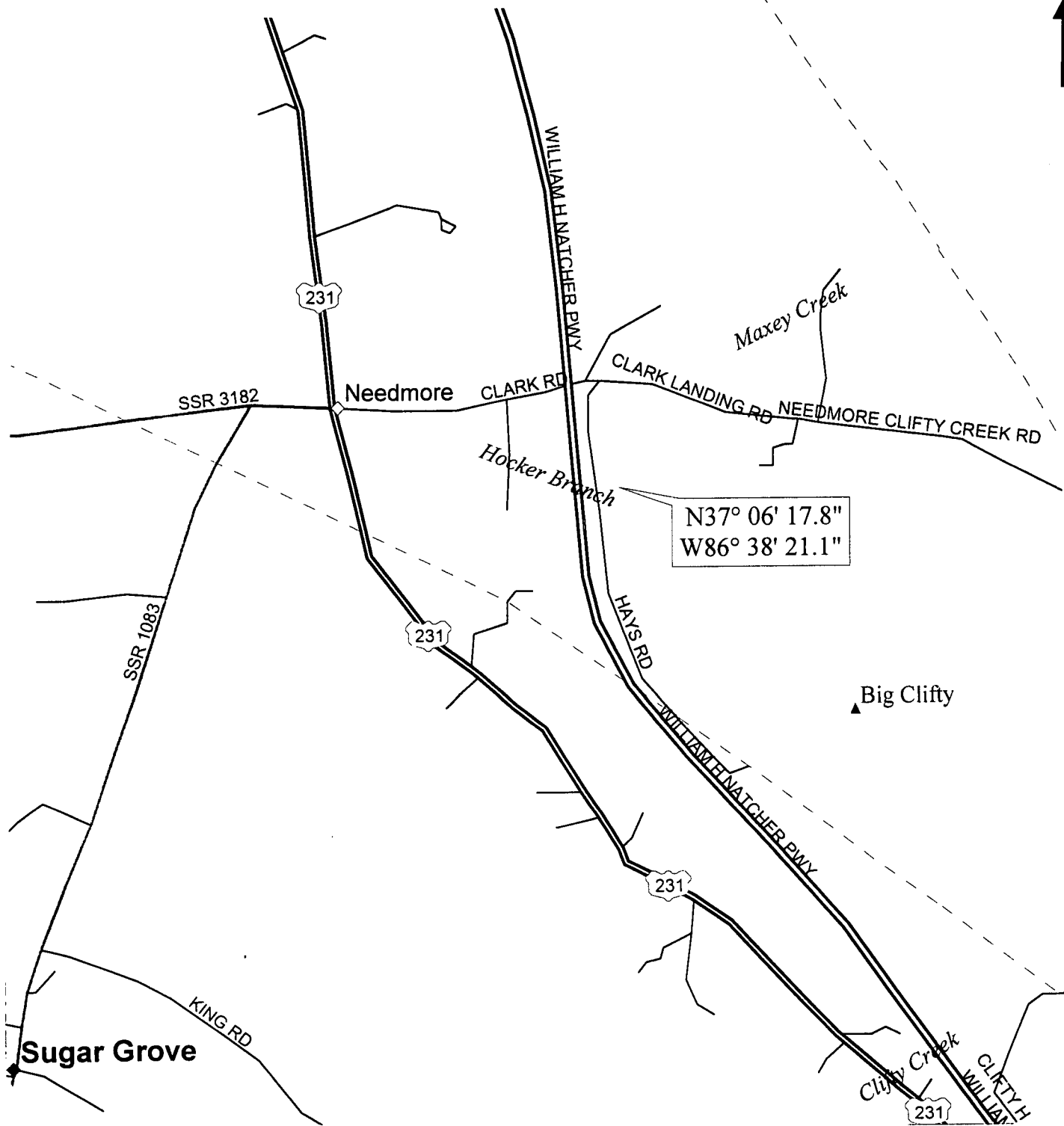
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions

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and to check that the soils connected construction phases are properly completed. If significant variations or changes are in evidence, it may then be necessary to reevaluate the recommendations of this report. Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

APPENDIX

SITE VICINITY MAP  
GEOTECHNICAL BORING LOG  
SOIL SAMPLE CLASSIFICATION  
MATERIALS GRAPHICS LEGEND



(NOT TO SCALE)

SOURCE: ATC Associates Inc. Field Sketch.

DRAWN BY: MAH CHECKED: BS

**VICINITY MAP**

**NATCHER PARKWAY SITE  
605 CLARK LANDING ROAD  
MORGANTOWN, KENTUCKY**

PROJECT NUMBER  
**13000.9106**

DATE: 10/05/1999

FIGURE NUMBER  
**1**





CLIENT: Crown Communications  
PROJECT: Proposed KY 279 Tower  
LOCATION: 605 Clark Landing Road, Morgantown, KY

BORING NUMBER: B-1  
PROJECT NUMBER: 13000.9106  
PROJECT MANAGER: Mike Hightchew

Surface Elevation:  
Date Started: 9/22/99  
Date Completed: 9/22/99

Hammer Weight: 140 lbs.  
Hammer Drop: 30 in.  
Drill Foreman: Jim Wharton

Hole Dia.: 6.5 in.  
Boring Method: HSA  
Supervisor: Beth Stuber

ELEV	MATERIAL DESCRIPTION	LAYER DEPTH & TYPE	DEPTH SCALE	SAMPLE DATA						NOTES
				NO	BLOWS	TYPE	REC	w,%	PP,tsf	
	Topsoil	1.5	0	1	5-6-7	SPT	100		5.2	Approximately 18" of topsoil
	Silty Clay (CL) - brown, stiff  - very stiff  - hard	1.5	1	2	7-6-6	SPT	100		---	
			3	8-9-8	SPT	100		6.0		
			4	9-8-7	SPT	100		---		
			5	12-17-15	SPT	100		4.1		
			6	21-24-27	SPT	67		5.5		
			7	31-26-29	SPT	67		6.0		
			8	34-29-26	SPT	67		6.0		
			9	31-34-30	SPT	67		6.0		
			10	50/6	SPT	---		---		
	Weathered shale - gray	18.5	18.5							

GEOTECHNICAL 13000106.GPJ 10/5/99

CLIENT: Crown Communications  
PROJECT: Proposed KY 279 Tower  
LOCATION: 605 Clark Landing Road, Morgantown, KY

BORING NUMBER: B-1  
PROJECT NUMBER: 13000.9106  
PROJECT MANAGER: Mike Hightchew

Surface Elevation: \_\_\_\_\_ Hammer Weight: 140 lbs. Hole Dia.: 6.5 in.  
Date Started: 9/22/99 Hammer Drop: 30 in. Boring Method: HSA  
Date Completed: 9/22/99 Drill Foreman: Jim Wharton Supervisor: Beth Stuber

ELEV	MATERIAL DESCRIPTION	LAYER DEPTH & TYPE	DEPTH SCALE	SAMPLE DATA						NOTES
				NO	BLOWS	TYPE	REC	w,%	PP,tsf	
	AUGER TERMINATION	36.0								The borehole was dry at the completion of drilling activities

GEOTECHNICAL 13000106.GPJ 10/5/99

# SOIL SAMPLE CLASSIFICATION

## GRANULAR SOILS

(Silt, Sand, Gravel and Combinations)

Density

Very Loose	- 5 blows/ft. or less
Loose	- 6 to 10 blows/ft.
Medium Dense	- 11 to 30 blows/ft.
Dense	- 31 to 50 blows/ft.
Very Dense	- 51 blows/ft. or more

Particle Size Identification

Boulders	- 8 inch diameter or more
Cobbles	- 3 to 8 inch diameter
Gravel	- Coarse - 1 to 3 inch
	Medium - ½ to 1 inch
	Fine - ¼ to ½ inch
Sand	- Coarse - 2.00 mm to ¼ inch
	- Medium - 0.42 to 2.00 mm
	- Fine - 0.074 to 0.42 mm
	- Silt - 0.002 to 0.074 mm
Clay	- less than 0.002 mm

Relative Proportions      Percent

Trace	1 - 10
Little	11 - 20
Some	21 - 35
And	36 - 50

## COHESIVE SOILS

(Clay, Silt and Combinations)

Consistency

Very Soft	- 3 blows/ft. or less
Soft	- 4 to 5 blows/ft.
Medium Stiff	- 6 to 10 blows/ft.
Stiff	- 11 to 15 blows/ft.
Very Stiff	- 16 to 30 blows/ft.
Hard	- 31 blows/ft. or more

Plasticity

Degree of Plasticity	Plasticity Index
None to Slight	0 - 4
Slight	5 - 7
Medium	8 - 22
High to Very High	over 22

Classification on logs are made by visual inspection of samples unless otherwise undicated.


Standard Penetration Test - Driving a 2.0" O.D., 1-3/8" I.D. split-spoon sampler a distance of 12 inches into undisturbed soil with a 140 pound hammer free falling a distance of 30 inches. The sample is initially driven 6 inches to penetrate into undisturbed soil, then the test is performed. The number of hammer blows for seating the spoon and making the test are recorded for each 6 inches of penetration on the boring log (Example: 6-8-9). The standard penetration test N-value can be obtained by adding the last two figures (i.e. 8+9=17 blows/ft.). (ASTM D-1586)


Strata Changes - In the column "Material Description" on the boring log, the horizontal lines represent strata changes. A solid line ( \_\_\_ ) represents an actually observed change, a dashed line ( - - - ) represents an estimated change.


Ground Water observations were made at the times indicated. Porosity of soil strata, weather conditions, site topography, etc. may cause changes in the water levels indicated on the logs.





# MATERIAL GRAPHICS LEGEND


 - Asphalt


 - Concrete


 - Topsoil


 - Fill


 - Reinforced Concrete


 - Cinders & Ash


 - CL, Low Plasticity Lean Clay


 - CH, High Plasticity Lean Clay


 - ML, Low Plasticity Inorganic Silt

 - MH, High Plasticity Inorganic Silt


 - OL, Low Plasticity Organic Silts and Clays


 - OH, High Plasticity Organic Silts and Clays


 - Crawfish Soil, a mix of inorganic and organic silts


 - Peat, weathered organic material


 - SP, Poorly Graded Sand


 - SW, Well Graded Sand


 - SC, Clayey, Poorly Graded Sand


 - SM, Silty, Poorly Graded Sand


 - GP, Poorly Graded Gravel


 - GW, Well Graded Gravel


 - GC, Clayey, Poorly Graded Gravel


 - GM, Silty, Poorly Graded Gravel


 - Glacial Till


 - CL-CH, Typical Dual Classification, Low to High Plasticity Lean Clay


 - Claystone


 - Siltstone


 - Sandstone

 - Limestone

 - Shale

 - Limestone and Shale Interbeds

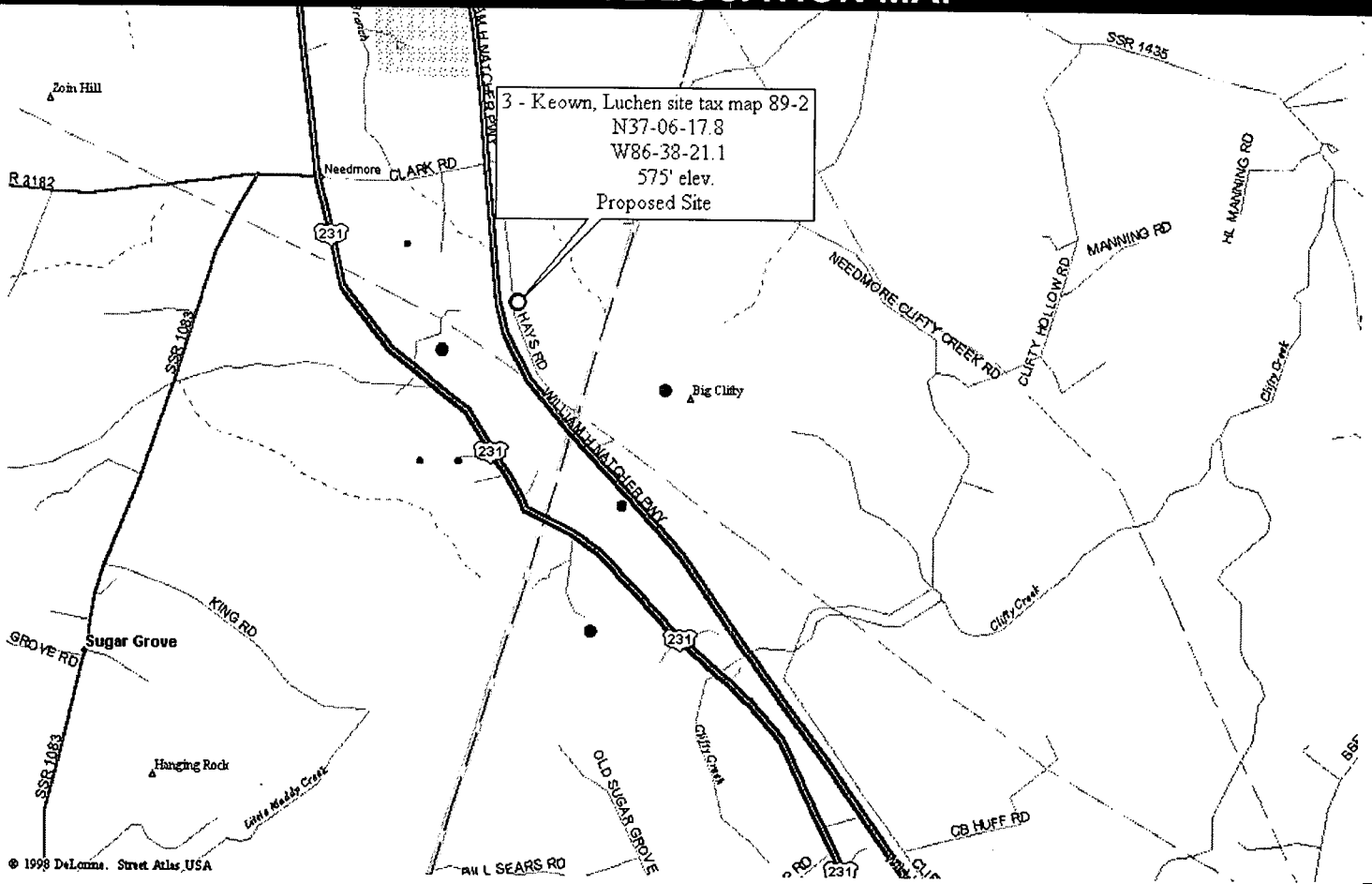
 - Dolomite

 - Partially Weathered Rock

 - Coal

**EXHIBIT I**  
**DIRECTIONS TO WCF SITE**

# CANDIDATE LOCATION MAP



**DIRECTIONS:** Take Hwy 231 south proceed approx. 6 miles to Clarks Landing Rd.(SSR3182). Go east on Clarks Landing Rd. and go under Natcher Pkwy. Turn right just under Natcher Pkwy. Onto Hays Rd., continue down Hays Rd. approx. 2,500'. Site is on the left at the back corner of tract.

Prepared by: Michelle Ward 502-262-0699

**EXHIBIT J**  
**COPY OF REAL ESTATE AGREEMENT**

Site Name: Natcher

Site #: 279C

## OPTION AND LEASE AGREEMENT

This Agreement, made this 28 day of June, 1999 between Luchen Keown, Jr. and wife, Judith Keown, hereinafter designated LESSOR and BELLSOUTH MOBILITY INC, hereinafter designated TENANT.

### RECITALS:

LESSOR is the owner of certain real property located in 605 Clark Landing Rd.in Butler County, State of KENTUCKY, and TENANT desires to obtain an Option to lease a portion of said real property containing approximately 22,500 square feet together with an easement for guy wires and a right of way for access thereto (said leased parcel easement and right of way hereinafter called "Property"). The Property is more specifically described in and substantially shown outlined in red on Exhibit "A" attached hereto and made a part hereof.

NOW THEREFORE, in consideration of a sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_), hereinafter referred to as "Option Money," to be paid by TENANT to the LESSOR, which TENANT will provide upon its execution of this Agreement, the LESSOR hereby grants to TENANT the right and Option to lease said real property including a right of way for access thereto for the term and in accordance with the covenants and conditions set forth herein.

The Option may be exercised at any time on or prior to December, 31, 1999.

At TENANT's election, and upon TENANT's prior written notification to LESSOR, the time during which the Option may be exercised may be further extended for one additional period of six (6) months, through and including July 1, 2000 with an additional payment of \_\_\_\_\_ Dollars ( \_\_\_\_\_ ) by TENANT to LESSOR for the Option Period so extended. The time during which the Option may be exercised may be further extended by mutual agreement in writing. If during said Option Period, or during the term of the lease, the LESSOR decides to subdivide, sell or change the status of the Property or LESSOR's property contiguous thereto, LESSOR shall immediately notify TENANT in writing so that TENANT can take steps necessary to protect TENANT's interest in the Property.

LESSOR covenants that LESSOR is seized of good and sufficient title and interest to the Property and has full authority to enter into and execute this Agreement. LESSOR further covenants that there are no other liens, judgments, or impediments of title on the Property.

This Option may not be sold, assigned, or transferred, at any time except to TENANT's principal, affiliates or subsidiaries of its principal. As to other parties, this Option may not be sold, assigned or transferred without the written consent of the LESSOR, such consent not to be unreasonably withheld.

Should TENANT fail to exercise this Option or any extension thereof within the time herein limited, all rights and privileges granted hereunder shall be deemed completely



surrendered, this Option terminated, and LESSOR shall retain all money paid for the Option, and no additional money shall be payable by either party to the other.

The LESSOR shall permit TENANT during the Option Period, free ingress and egress to the Property to conduct such surveys, structural strength analysis, subsurface boring tests and other activities of similar nature, as TENANT may deem necessary, at the sole cost of TENANT.

Notice of the exercise of the Option shall be given by TENANT to the LESSOR in writing by certified mail, return receipt requested. Notice shall be deemed effective on the date it is posted. Sixty (60) days after such notice the following Agreement shall take effect:

### LEASE AGREEMENT

1. LESSOR hereby leases to TENANT that certain parcel of real Property, containing approximately 22,500 square feet, situated in Butler County, State of Kentucky, together with and easement for guy wires and the nonexclusive right for ingress and egress, seven (7) days a week, twenty-four (24) hours a day, on foot or motor vehicle, including trucks, and for the installation and maintenance of utility wires, cables, conduits and pipes over, under or along a twenty foot (20') wide right of way extending from the nearest public right of way Hays Road, to the leased parcel, said parcel and right of way for access being substantially as described herein Exhibit "A" and as shown enclosed within red lines on Exhibit "A" attached hereto and made a part hereof. Said leased parcel easement and right of way for access shall be hereinafter referred to as "Property." LESSOR shall cooperate with TENANT in TENANT's effort to obtain utility services along said right of way by signing such documents or easements as may be required by said utility companies. In the event any public utility is unable to use the aforementioned right of way, the LESSOR hereby agrees to grant an additional right of way either to the TENANT or to the public utility at no cost to the TENANT.

2. LESSOR also hereby grants to TENANT the right to survey said Property, and the legal description on said survey shall then become Exhibit "B," which shall be attached hereto and made a part hereof, and shall control in the event of discrepancies between it and Exhibit "A." LESSOR grants TENANT the right to take measurements, make calculations, and to note other structures, setbacks, uses, or other information as deemed by TENANT to be relevant and pertinent as such information relates to LESSOR's real property, leased or otherwise abutting or surrounding the Property. Cost for such survey work shall be borne by the TENANT.

3. This Agreement shall be for an initial term of five (5) years beginning on the date the Option is exercised by TENANT at an annual rental payment of \_\_\_\_\_ to be paid in monthly installments on the first day of the month, in advance, to Luchen Keown, Jr & Judith Keown or to such other person, firm or place as the LESSOR may, from time to time, designate in writing at least thirty (30) days in advance of any rental payment date.

4. TENANT shall have the Option to extend this lease for four (4) additional five (5) year terms by giving the LESSOR written notice of its intention to do so at least six (6) months prior to the end of the then current term.

5. The annual rental for the first (1st) five (5) year extension term shall be increased to four thousand Dollars ( \$4,000 ); the second (2nd) five (5) year extension term shall be increased to Dollars ( \$4,000 ); the third (3rd) five (5) year extension term shall be increased to Dollars ( \$4,000 ); and the fourth (4th) five (5) year extension term shall be increased to Dollars ( \$4,000 ).

6. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either party by giving to the other written notice of an intention to terminate it at least six (6) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for the annual terms thereafter until terminated by either party by giving to the other written notice of its intention to terminate at least six (6) months prior to the end of such term. Monthly rental for this period shall be equal to the rent paid for the last month of the fourth (4th) five (5) year extension.

7. TENANT shall use the Property for the purpose of constructing, maintaining and operating a Communications Facility and uses incidental thereto, consisting of a building or buildings as necessary now or in the future to shelter telecommunications equipment and related office space, a self supporting tower or a guyed tower of sufficient height now or in the future to meet TENANT's telecommunication needs and all necessary appurtenances, a security fence consisting of a chain-link construction or similar but comparable construction may at the option of TENANT be placed around the perimeter of the property (not including the access and guy wire easements). All improvements shall be at TENANT's expense. LESSOR grants TENANT the right to use adjoining and adjacent land as is reasonably required during construction, installation, maintenance, and operation of the Communications Facility. TENANT will maintain the Property in a reasonable condition. It is understood and agreed that TENANT's ability to use the Property is contingent upon its obtaining, after the execution date of this agreement, all of the certificates, permits and other approvals that may be required by any federal, state or local authorities. LESSOR shall cooperate with TENANT in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to the proposed use thereof by TENANT. LESSOR agrees to sign such papers as required to file applications with the appropriate zoning authority and/or commission for the proper zoning of the property as required for the use intended by the TENANT. TENANT will perform all other acts and bear expenses associated with the rezoning procedure. LESSOR agrees not to register any written or verbal opposition to the rezoning procedures. In the event TENANT is unable to use the leased parcel and/or access easement to the leased parcel due to imposed zoning conditions or requirements, LESSOR hereby grants to TENANT the right to modify Exhibit "A" in order to satisfy any imposed zoning conditions or requirements. In the event that any of such applications should be finally rejected or any certificate, permit, license or approval issued to TENANT is canceled, expires, lapses, or is otherwise withdrawn or terminated by governmental authority or soil boring tests

or radio frequency propagation tests are found to be unsatisfactory so that TENANT, in its sole discretion, will be unable to use the Property for its intended purposes, TENANT shall have the right to terminate this Agreement. Notice of the TENANT's exercise of its right to terminate shall be given to LESSOR in writing by certified mail, return receipt requested, and shall be effective upon receipt of such notice by the LESSOR as evidenced by the return receipt. All rentals paid to said termination date shall be retained by the LESSOR. Upon such termination, this Agreement shall become null and void and all the parties shall have no further obligations, including the payment of money, to each other.

8. TENANT shall indemnify and hold LESSOR harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the use and occupancy of the Property by the TENANT, its servants or agents, excepting, however, such claims or damages as may be due to or caused by the acts of the LESSOR, or its servants or agents.

9. LESSOR agrees that TENANT may self-insure against any loss or damage, which could be covered by a comprehensive general public liability insurance policy.

10. TENANT will be responsible for making any necessary returns for and paying any and all Property taxes separately levied or assessed against its improvements on the Property. TENANT shall reimburse LESSOR as additional rent for any increase in real estate taxes levied against the leased Property which are directly attributable to the improvements constructed by TENANT and are not separately levied or assessed against TENANT's improvements by the taxing authorities.

11. If TENANT's Communications Facility or improvements are damaged or destroyed by fire or other casualty, TENANT shall not be required to repair or replace the Communications Facility or any of TENANT's improvements made by TENANT. TENANT shall not be required to expend for repairs more than twenty-five percent (25%) of the replacement value of the Communications Facility or any improvements. Additionally, if completion of the repairs is not possible within ninety (90) days following the date of the damage or destruction, TENANT may terminate this Agreement by giving written notice to LESSOR. Termination shall be effective immediately after such notice is given. Upon such termination, this Agreement shall become null and void other than the requirement that the LESSOR pay any of the pro-rata share of the unused portion of the rent which was paid to LESSOR back to the TENANT. Upon TENANT's receipt of the rent, LESSOR and TENANT shall have no other further obligations to each other, other than TENANT's obligation to remove its property as hereinafter provided.

12. Notwithstanding any other termination rights available to TENANT under this Lease, TENANT, at its sole and absolute discretion, shall have the right to terminate this Lease with ninety (90) days prior written notice to LESSOR and a lump sum payment to LESSOR in an amount equal to twelve (12) months rent or the total of the remaining months of the term, whichever is less. The rental rate shall be computed at the rate which is in effect at the time of termination. Upon termination TENANT shall execute upon the request of the LESSOR a written cancellation of the lease upon the TENANT vacating the Property or upon

termination of the lease, in recordable form and TENANT shall have no other further obligations, other than TENANT's obligation to remove its property as hereinafter provided.

13. TENANT upon termination of this Agreement, shall, within a reasonable period, remove its real and personal property and fixtures and restore the property to its original above grade condition, reasonable wear and tear excepted. At LESSOR's option, when this Agreement is terminated and upon LESSOR's advance written notice to TENANT, TENANT will leave the foundation and security fence to become the property of the LESSOR. If such time for removal causes TENANT to remain on the Property after the termination of this Agreement, TENANT shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until such time as the removal of personal property and fixtures are completed.

14. Should the LESSOR, at any time during the term of this Agreement, decide to sell all or any part of his real property which includes the parcel of property leased by TENANT herein and/or the right of way thereto to a purchaser other than TENANT, such sale shall be under and subject to this Lease Agreement and TENANT's right hereunder. LESSOR agrees not to sell, lease or use any other areas of the larger parcel upon which Property is situated for the placement of other communications facilities if, in TENANT's sole judgment, such installation would interfere with the facilities in use by TENANT.

15. LESSOR covenants that TENANT, on paying the rent and performing the covenants shall peaceably and quietly have, hold and enjoy the Property.

16. LESSOR covenants that LESSOR is seized of good and sufficient title and interest to the Property and has full authority to enter into and execute this Agreement. LESSOR further covenants that there are no other liens, judgments or impediments of title on the Property.

17. It is agreed and understood that this Agreement contains all agreements, promises and understandings between the LESSOR and TENANT and that no verbal or oral agreement, promises or understandings shall be binding upon either the LESSOR or TENANT in any dispute, controversy or proceeding at law, and any addition, variation or modification to this Agreement shall be void and ineffective unless made in writing and signed by the parties.

18. This Lease Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the laws of the State of Kentucky.

19. This lease may not be sold, assigned, or transferred at any time except to TENANT's principal affiliates or subsidiaries of its principal or to any company upon which TENANT is merged or consolidated. As to other parties, this Lease may not be sold, assigned or transferred without the written consent of the LESSOR, such consent not to be unreasonably withheld. TENANT may sublease this Lease upon notice to LESSOR.

20. All notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested, addressed as follows (or any other address that the party to be notified may have designated to the sender by like notice):

TENANT: BellSouth Mobility Inc  
1650 Lyndon Farms Court  
Louisville, KY 40223  
Attn: Real Estate Manager

LESSOR: Luchen & Judith Keown, Jr  
605 Clark Landing Road  
Bowling Green, KY 42101

21. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns of the parties hereto.

22. At LESSOR's option, this Agreement shall be subordinate to any mortgage by LESSOR which from time to time may encumber all or part of the Property or right of way; provided, however, every such mortgage shall recognize the validity of this Agreement in the event of a foreclosure of LESSOR's interest and also TENANT's right to remain in occupancy of and have access to the Building as long as TENANT is not in default of this Agreement. TENANT shall execute in a timely manner whatever instruments as may reasonably be required to evidence this subordination clause. In the event the leased Property is encumbered by a mortgage, the LESSOR, no later than ten (10) days after this lease is exercised, shall have obtained and furnished to TENANT a non-disturbance instrument in recordable form for each such mortgage.

23. If the whole of the leased premises or such portion thereof as will make the premises unusable for the purposes herein leased, are condemned by any legally constituted authority for any public use or purpose, then in either of said events the term hereby granted shall cease from the time when possession thereof is taken by public authorities, and rental shall be accounted for as between LESSOR and TENANT as of that date. TENANT shall remove all of its equipment within 60 days from the receipt of notification of condemnation from the condemning authority. Any lesser condemnation shall in no way affect the respective rights and obligations of LESSOR and TENANT hereunder. Nothing in this provision shall be construed to limit or affect TENANT's right to an award of compensation of any eminent domain proceeding for the taking of TENANT's leasehold interest hereunder.

24. TENANT, at TENANT's option may erect either a self supporting tower or a guyed tower suitable for his proposed use. Should TENANT choose to erect a guyed tower, Lessor grants TENANT easements for the purpose of anchoring and mounting guy wires extending from TENANT's tower. Said easement shall extend up to 400 feet in all directions to the property line from the leased parcel.

25. LESSOR grants that TENANT has the following rights:

A. Twenty-four hour, seven day a week right of ingress and egress to said guy anchors for purposes of maintenance, inspection, and installation to insure the proper installation and operation of TENANT's facility. Such inspection, maintenance and

installation shall be TENANT's sole responsibility and all such costs shall be borne by the TENANT.

B. The right to clear all trees, undergrowth, or other obstructions and to trim and cut and keep trimmed and cut all dead, weak, leaning or dangerous trees or limbs which may interfere with or fall upon TENANT's tower or tower's guy wires.

26. TENANT, at TENANT's option, may obtain title insurance on the space leased herein. LESSOR, at LESSOR's expense, shall cooperate with TENANT's efforts to obtain such title insurance policy by executing documents or obtaining requested documentation as required by the title insurance company. At TENANT's option, should the LESSOR fail to provide requested documentation within thirty (30) days of TENANT's request, or fail to provide the Non-Disturbance instrument(s) as noted in Paragraph 22 of this Agreement, TENANT may withhold and accrue the monthly rental until such time as the requested document(s) is (are) received.

27. LESSOR shall hold TENANT harmless from and indemnify TENANT against and from any damage, loss, expenses or liability resulting from the discovery by any person of hazardous substances generated, stored, disposed of, or transported to or over Property, as long as such substance was not stored, disposed of, or transported to or over the Property by TENANT, its agents, contractors, employees, or invitees. TENANT will be responsible for any and all damages, losses, and expenses and will indemnify LESSOR against and from any discovery by any persons of hazardous wastes generated, stored, or disposed of as a result of TENANT's equipment and uses of the aforementioned Property.

(Remainder of Page Intentionally Left Blank)

IN WITNESS WHEREOF, the parties hereto have set their hands and affixed their respective seals the day and year first above written.

Signed, sealed and delivered in the presence of:

Shirley R. House

WITNESS

\_\_\_\_\_  
WITNESS

Shirley R. House

WITNESS

\_\_\_\_\_  
WITNESS

Mary House  
NOTARY PUBLIC

LESSOR:

Luchen Keown Jr (Seal)

Luchen Keown, Jr. (Seal)

SS# 406-48-4319

Judith A. Keown (Seal)

Judith Keown

SS#: 407-54-8045

Signed, sealed and delivered in the presence of:

Beverly Platt

WITNESS

Michelle D. Mardis

WITNESS

Becky M. Robinson  
NOTARY PUBLIC

TENANT:  
BELLSOUTH MOBILITY INC

[Signature]

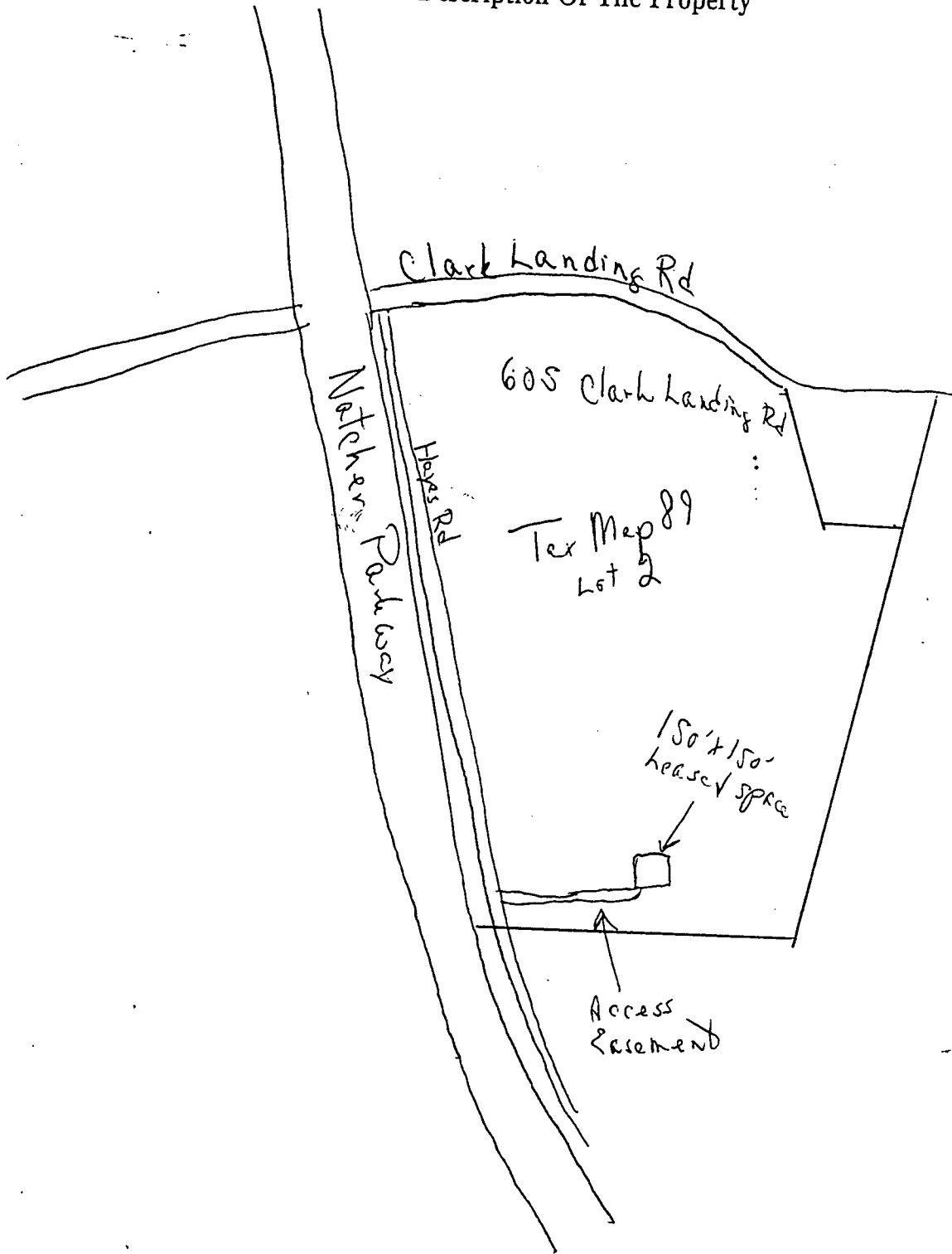
BY: \_\_\_\_\_  
TITLE: Regional Vice President &

for General Manager  
(CORPORATE SEAL)

Becky M. Robinson, Notary Public  
State at Large  
Kentucky

My Commission Expires Mar. 14, 2003

Exhibit A  
Description Of The Property





**EXHIBIT K  
NOTIFICATION LISTING**

**CERTIFICATION OF NOTIFICATION - EXHIBIT K**  
PSC Case # 99-446 Crown Ref.: KY 279 - NATCHER PARKWAY

1)  
Honorable David Martin  
Butler County Judge Executive  
P.O. Box 626  
110 North Main Street  
Morgantown, KY 42261

2)  
Luchen JR. Keown  
605 Clark Landing Road  
Morgantown, KY 42261

3)  
Herbert Hayes  
P.O. Box 473  
Morgantown, KY 42261

**EXHIBIT L**  
**COPY OF PROPERTY OWNER NOTIFICATION**

November 10, 1999

Luchen JR. and Judith Keown  
605 Clark Landing Road  
Morgantown, KY 42261

RE: Public Notice – Public Service Commission of Kentucky  
Case No.: 99-446  
Our Site No.: KY 279 Called Natcher Parkway

Dear Luchen and Judith:

Crown Communication Inc. and Westel-Milwaukee Company, Inc. have applied to the Public Service Commission of Kentucky ("Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide wireless telecommunication services. The facility will include a 400-foot tower with appurtenances attached to a maximum height of 420 feet, and a ground level equipment shelter to be located at 606 Clark Landing Road, Morgantown, KY 42261. A temporary tower of shorter stature might be erected at said location while awaiting final PSC approval, and the approved tower is operational. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you own property within a 500' radius of the proposed tower.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. Your initial communication to the Commission must be received by the Commission 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, Post Office Box 615, Frankfort, Kentucky 40602. Please refer to Case No.: 99-446 in your correspondence.

Feel free to contact Lisa Miller, Project Manager, at (502) 240-0044 ext. 23, if you have any questions.

Sincerely,  
CROWN COMMUNICATION INC.

  
Lloyd McCarthy  
For Crown Communication Inc.

November 10, 1999

Herbert Hayes  
P.O. Box 473  
Morgantown, KY 42261

RE: Public Notice – Public Service Commission of Kentucky  
Case No.: 99-446  
Our Site No.: KY 279 Called Natcher Parkway

Dear Herbert:

Crown Communication Inc. and Westel-Milwaukee Company, Inc. have applied to the Public Service Commission of Kentucky ("Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide wireless telecommunication services. The facility will include a 400-foot tower with appurtenances attached to a maximum height of 420 feet, and a ground level equipment shelter to be located at 606 Clark Landing Road, Morgantown, KY 42261. A temporary tower of shorter stature might be erected at said location while awaiting final PSC approval, and the approved tower is operational. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you own property within a 500' radius of the proposed tower.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. Your initial communication to the Commission must be received by the Commission 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, Post Office Box 615, Frankfort, Kentucky 40602. Please refer to Case No.: 99-446 in your correspondence.

Feel free to contact Lisa Miller, Project Manager, at (502) 240-0044 ext. 23, if you have any questions.

Sincerely,  
CROWN COMMUNICATION INC.

  
Lloyd McCarthy  
For Crown Communication Inc

**EXHIBIT M**  
**COPY OF JUDGE EXECUTIVE NOTICE**

November 10, 1999

Honorable David Martin  
Butler County Judge Executive  
P.O. Box 626  
110 North Main Street  
Morgantown, KY 42261

RE: Public Notice – Public Service Commission of Kentucky  
Case No.: 99-446  
Our Site No.: KY 279 Called Natcher Parkway

Honorable Judge Martin:

Crown Communication Inc. and Westel-Milwaukee Company, Inc., d/b/a BellSouth Mobility, Inc. have applied to the Public Service Commission of Kentucky ("Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide wireless telecommunication services. The facility will include a 400-foot tower with appurtenances attached to a maximum height of 420 feet, and a ground level equipment shelter to be located at 606 Clark Landing Road, Morgantown, KY 42261. A temporary tower of shorter stature might be erected at said location while awaiting final PSC approval and the approved tower is operational. A map showing the location of the proposed new facility is enclosed. This notice is being sent to you because you are the Judge Executive of Butler County.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. Your initial communication to the Commission must be received by the Commission within 20 days of the date of this letter. Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, Post Office Box 615, Frankfort, Kentucky 40602. Please refer to Case No.: 99-446 in your correspondence.

Feel free contact the Lisa Miller, Project Manager, at (502) 2400-0044 ext. 23, if you have any questions.

Sincerely,  
CROWN COMMUNICATION INC.

  
Lloyd McCarthy  
For Crown Communication Inc.

**EXHIBIT N**  
**COPY OF POSTING NOTICES**



## Copies of Posting Notices

Crown Communication, Inc proposes to construct a

### **TELECOMMUNICATIONS TOWER**

on this site. If you have questions, please contact the General Manager, Crown Communication, Inc., 11001 Bluegrass Parkway, Suite 330, Louisville, KY 40299, (502) 240-0044 or the Executive Director, Public Service Commission, 730 Schenkel Lane, P.O. Box 615, Frankfort, KY 40602.

Please refer to Case # 99-446 in your correspondence.

Crown Communication, Inc., proposes to construct a

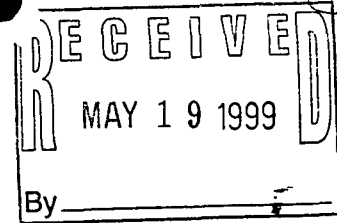
### **TELECOMMUNICATIONS TOWER**

near this site. If you have questions, please contact the General Manager, Crown Communication, Inc., 11001 Bluegrass Parkway, Suite 330, Louisville, KY 40299, (502) 240-0044 or the Executive Director, Public Service Commission, 730 Schenkel Lane, P.O. Box 615, Frankfort, KY 40602.

Please refer to Case # 99-446 in your correspondence.

**EXHIBIT O**  
**COPY OF RADIO FREQUENCY DESIGN SEARCH AREA**

# Memorandum



**To:** Larry Hester  
**CC:** Garry Bowling, Richard Guttar, Roy Johnson, Mike Dobbs, Rob South  
**From:** Sherri Roberts  
**Date:** 1/2/99  
**Re:** Natcher Pkwy Search Area

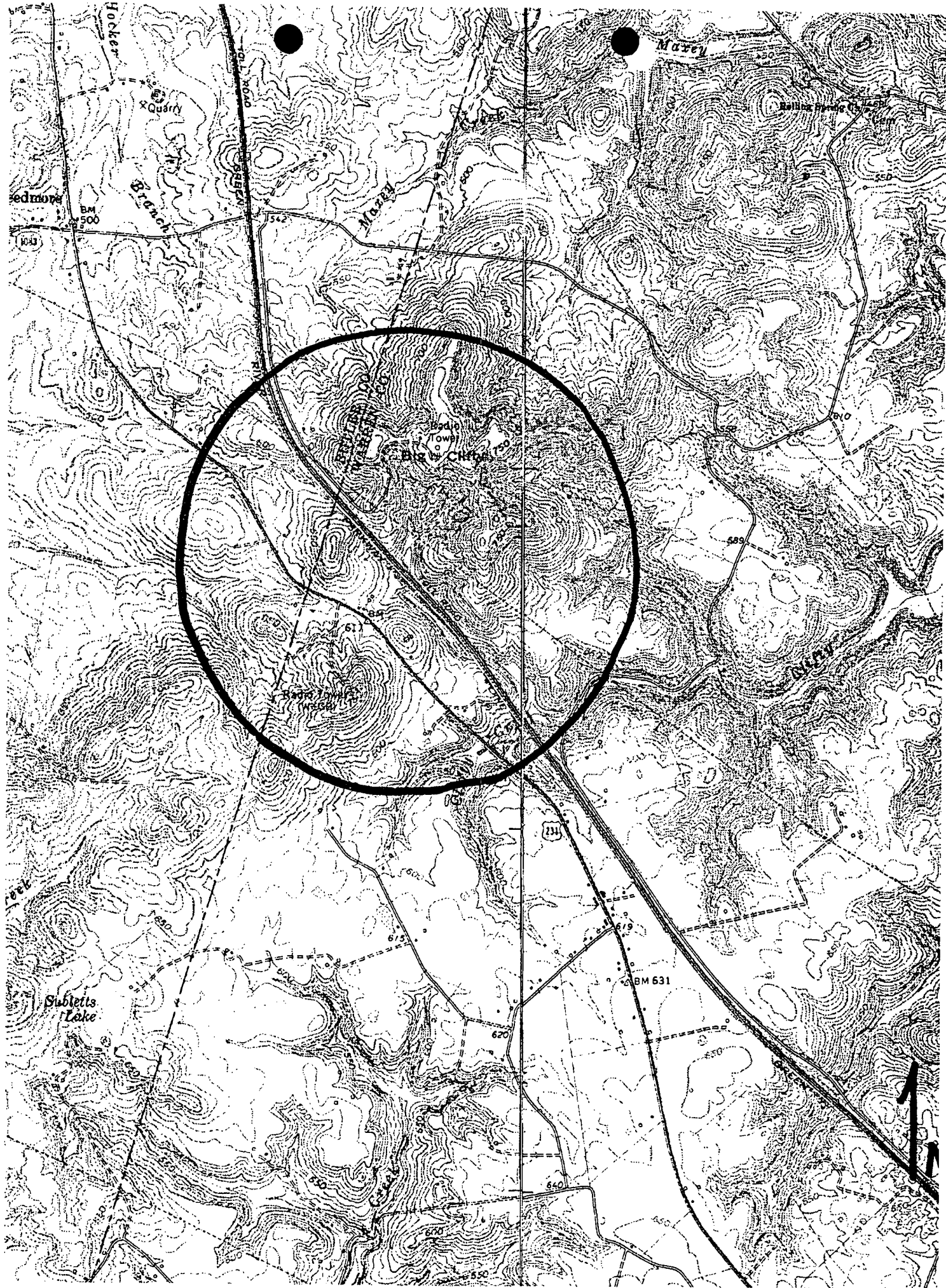
*Relin. Cov*

*5705-81  
86-37-93*

The attached map indicates the search area for the Natcher Pkwy site. This is a coverage site in northwest Warren Co. near the Butler Co. line. It will improve coverage along Natcher Parkway and U.S. 231 between Bowling Green and Morgantown and along portions of SR 79 between Morgantown and Russellville. This site will be an omni cell site. The ground elevation in this area is around 650 to 700 feet. The tower height will need to be 400 to 420 feet, depending on ground elevation.

If you have any questions, please let me know.

*Site Identif.*



Hocker

Marey

Subletts Lake

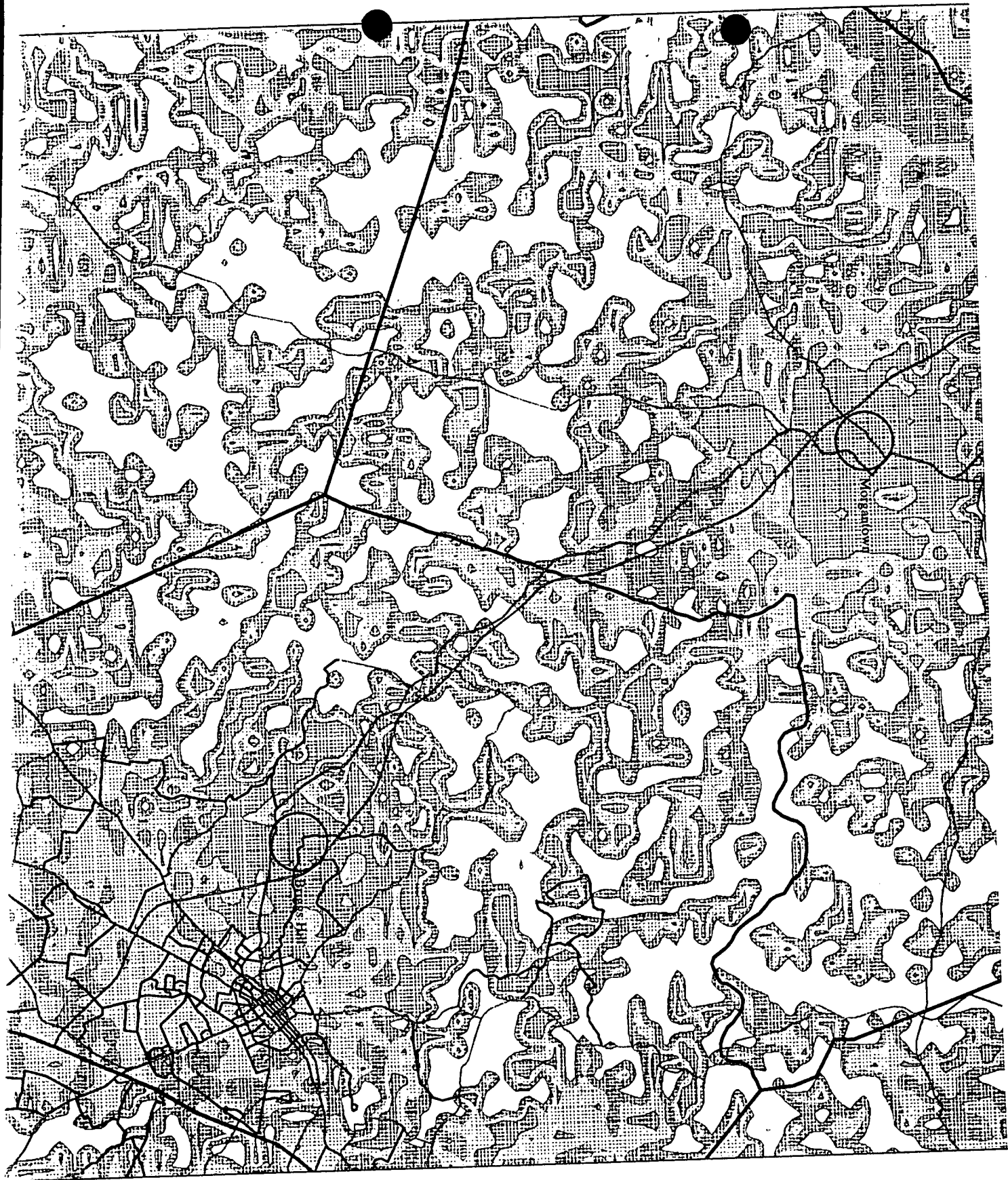
BM 500

BM 631

231

Quarry

Marey



Owensboro, new Mid Owens,  
S. Owensboro, Rockport

plville ! Existing

36 49 53.00 N 86 54 52.00 W Grnd: 831' AMSL  
0/0 740198R2 0 AZ 0 T 255' CL 169.0 W

Cell: E305 Briggs Hill ! Existing

37 0 16.00 N 86 31 20.00 W Grnd: 765' AMSL  
1/0 PD10017 OMNI 0 T 226' CL 100.0 W

Cell: E312 Caneyville ! Existing

37 24 42.00 N 86 31 58.00 W Grnd: 780' AMSL  
1/0 740198 OMNI 0 T 425' CL 72.0 W

Cell: E316 Lake Malone ! Existing

37 3 58.00 N 87 0 55.00 W Grnd: 720' AMSL  
1/0 BCR12-O OMNI 0 T 310' CL 200.0 W

Cell: E301 Elkton ! Existing

36 50 27.00 N 87 7 57.00 W Grnd: 780' AMSL  
1/0 AP16-850/047 347 AZ 0 T 185' CL 231.0 W  
2/0 AP16-850/047 205 AZ 0 T 185' CL 231.0 W

Cell: Warren Co/165 ! Proposed

36 49 54.90 N 86 29 23.36 W Grnd: 636' AMSL  
2/0 740198 OMNI 0 T 305' CL 85.0 W

Cell: E307 Mammoth Cave ! Existing

37 6 14.00 N 86 11 32.00 W Grnd: 816' AMSL  
1/0 PD1132 0 AZ 0 T 305' CL 267.0 W  
2/0 PD1132 225 AZ 0 T 305' CL 267.0 W

Cell: E309 Beaver Dam ! Existing

37 22 43.00 N 86 50 24.00 W Grnd: 508' AMSL  
1/0 740198 OMNI 0 T 405' CL 75.0 W

Cell: E303 Pilot\*s Knob ! Existing

36 49 20.00 N 86 40 30.00 W Grnd: 928' AMSL  
2/0 PD1110 OMNI 0 T 195' CL 100.0 W

Cell: E315 Morgantown ! Existing

37 13 20.00 N 86 41 58.00 W Grnd: 588' AMSL  
1/0 740198 OMNI 0 T 325' CL 86.0 W

Cell: E319 Greenville KY3 ! Future

37 12 42.00 N 87 12 22.00 W Grnd: 567' AMSL  
3/0 BCR12-H OMNI 0 T 153' CL 200.0 W

Cell: E314 Nolin River ! Proposed

Active Cells

37 14 21.00 N 86 15 59.00 W Gnd: 755' AMSL  
I/O BCR12-H OMNI 0 T 400' CL 280.0 W

Cell: E310 Central City | Existing  
37 17 47.00 N 87 6 32.00 W Gnd: 517' AMSL  
I/O BCR12-O OMNI 0 T 300' CL 240.0 W

Entity Colors<sup>1</sup> -- Active Status

Inactive Entities

Inactive-by-Parent Entities

Invisible Entities

Legend -- Signal in dBm

- BSCC 0 >= -75
- BSCC -75 >= -85
- BSCC -85 >= -95







Owensboro, new Mid Owens,  
S. Owensboro, Rockport

Elville ! Existing  
 36 49 53.00 N 86 54 52.00 W Grnd: 831' AMSL  
 0/0 740198R2 0 AZ 0 T 255' CL 169.0 W

Cell: E305 Briggs Hill ! Existing  
 37 0 16.00 N 86 31 20.00 W Grnd: 765' AMSL  
 1/0 PD10017 OMNI 0 T 226' CL 100.0 W

Cell: E312 Caneyville ! Existing  
 37 24 42.00 N 86 31 58.00 W Grnd: 780' AMSL  
 1/0 740198 OMNI 0 T 425' CL 72.0 W

Cell: E316 Lake Malone ! Existing  
 37 3 58.00 N 87 0 55.00 W Grnd: 720' AMSL  
 1/0 BCR12-0 OMNI 0 T 310' CL 200.0 W

Cell: E301 Elkton ! Existing  
 36 50 27.00 N 87 7 57.00 W Grnd: 780' AMSL  
 1/0 AP16-850/047 347 AZ 0 T 185' CL 231.0 W  
 2/0 AP16-850/047 205 AZ 0 T 185' CL 231.0 W

Cell: Warren Co/165 ! Proposed  
 36 49 54.90 N 86 29 23.36 W Grnd: 636' AMSL  
 2/0 740198 OMNI 0 T 305' CL 85.0 W

Cell: Natcher Pkwy ! What If ! SHERRI  
 37 4 59.82 N 86 39 38.10 W Grnd: 692' AMSL  
 1/0 740198 OMNI 0 T 405' CL 75.0 W

Cell: E307 Mammoth Cave ! Existing  
 37 6 14.00 N 86 11 32.00 W Grnd: 816' AMSL  
 1/0 PD1132 0 AZ 0 T 305' CL 267.0 W  
 2/0 PD1132 225 AZ 0 T 305' CL 267.0 W

Cell: E309 Beaver Dam ! Existing  
 37 22 43.00 N 86 50 24.00 W Grnd: 508' AMSL  
 1/0 740198 OMNI 0 T 405' CL 75.0 W

Cell: E303 Pilot\*s Knob ! Existing  
 36 49 20.00 N 86 40 30.00 W Grnd: 928' AMSL  
 2/0 PD1110 OMNI 0 T 195' CL 100.0 W

Cell: E315 Morgantown ! Existing  
 37 13 20.00 N 86 41 58.00 W Grnd: 588' AMSL  
 1/0 740198 OMNI 0 T 325' CL 86.0 W

Cell: E319 Greenville KY3 ! Future

Active Cells

3/0 BCR12-H OMNI 0 T 153' CL 200.0 W

Cell: E314 Nolin River 1 Proposed

37 14 21.00 N 86 15 59.00 W Grnd: 755' AMSL  
I/O BCR12-H OMNI 0 T 400' CL 280.0 W

Cell: E310 Central City 1 Existing

37 17 47.00 N 87 6 32.00 W Grnd: 517' AMSL  
I/O BCR12-O OMNI 0 T 300' CL 240.0 W

### Entity Colors -- Active Status

Active Entities

Active-by-Parent Entities

Invisible Entities

### Legend -- Signal in dBm

● BSCC 0 >= -75

● BSCC -75 >= -85

● BSCC -85 >= -95

**EXHIBIT P**  
**TOWER MAP FOR SUBJECT COUNTY**

