COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF BLUEGRASS WIRELESS LLC FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A CELL SITE (DUNNVILLE) IN RURAL SERVICE AREA #6 (CASEY) OF THE COMMONWEALTH OF KENTUCKY

CASE NO. 2010-00196

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (DUNNVILLE)

Bluegrass Wireless LLC ("Bluegrass Wireless"), through counsel, pursuant to KRS 278.020 and 278.040, hereby submits this application for a certificate of public convenience and necessity to construct a cell site to be known as the Dunnville cell site in and for rural service area ("RSA") #6 of the Commonwealth of Kentucky, namely the counties of Boyle, Casey, Garrard, Laurel, Lincoln, Madison, Pulaski, and Rockcastle, Kentucky.

1. As required by 807 KAR 5:001 Sections 8(l) and (3), and 807 KAR 5:063, Bluegrass Wireless states that it is a Kentucky limited liability company whose full name and post office address are: Bluegrass Wireless LLC, 2902 Ring Road, Elizabethtown, Kentucky, 42701. A certified copy of the articles of organization of Bluegrass Wireless was previously filed in Kentucky PSC Case No. 2007-00501 (Application of Bluegrass Wireless LLC for issuance of a certificate of public convenience and necessity to construct a cell site (Pricetown) in rural service area #11 (Casey County) of the Commonwealth of Kentucky).

2. Pursuant to 807 KAR KAR 5:063 § 1 (1)(b), a copy of the applicant's applications to the Federal Aviation Administration and Kentucky Airport Zoning Commission are Exhibit "A."

3. Pursuant to 807 KAR 5:063 §1(1)(d), a geotechnical investigation report, signed and sealed by a professional engineer registered in Kentucky, that includes boring logs, foundation design recommendations, and a finding as to the proximity of the proposed site to flood hazard areas is attached as Exhibit "B."

4. Pursuant to 807 KAR 5:063 §1(1)(e), clear directions from the county seat to the proposed site, including highway numbers and street names, if applicable, with the telephone number of the person who prepared the directions are attached as Exhibit "C."

5. Pursuant to 807 KAR 5:063 §1(1)(f), a copy of the lease for the property on which the tower is proposed to be located is attached as Exhibit "D."

6. Pursuant to 807 KAR 5:063 §1(1)(g), experienced personnel will manage and operate the Dunnville cell site. The President of Bluegrass Cellular Inc., Mr. Ron Smith, is ultimately responsible for all construction and operations of the cellular system of Bluegrass Wireless, of which system the Dunnville cell site will be a part. Bluegrass Cellular Inc. provides management services to Bluegrass Wireless under a management contract, just as it does with three (3) other wireless carriers in the Commonwealth. And, Bluegrass Cellular Inc. has been providing these management services to these other wireless carriers for well over a decade. This extensive management experience with Bluegrass Cellular demonstrates that Bluegrass Cellular Inc.'s management and technical ability to supervise the operations of a wireless carrier.

7. Pursuant to 807 KAR 5:063 §1(1)(g), Allstate Tower Inc. is responsible for the design specifications of the proposed tower (identified in Exhibit "B").

8. Pursuant to 807 KAR 5:063 §1(1)(h), a site development plan and survey, signed and sealed by a professional engineer registered in Kentucky, that shows the proposed location of the tower and all easements and existing structures within 500 feet of the proposed site on the

property on which the tower will be located, and all easements and existing structures within 200 feet of the access drive, including the intersection with the public street system, is attached as Exhibit "B."

9. Pursuant to 807 KAR 5:063 §1(1)(i), a vertical profile sketch of the tower, signed and sealed by a professional engineer registered in Kentucky, indicating the height of the tower and the placement of all antennas is attached as Exhibit "B."

10. Pursuant to 807 KAR 5:063 §1(1)(j), the tower and foundation design plans and a description of the standard according to which the tower was designed, signed and sealed by a professional engineer registered in Kentucky is attached as Exhibit "B."

11. Pursuant to 807 KAR 5:063 § 1 (1)(k), a map, drawn to a scale no less than one (1) inch equals 200 feet, that identifies every structure and every owner of real estate within 500 feet of the proposed tower is attached as Exhibit "E."

12. Pursuant to 807 KAR 5:063 § 1 (1)(l), applicant's legal counsel hereby affirms that every person who owns property within 500 feet of the proposed tower has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his or her right to request intervention.

13. Pursuant to KRS 278.665(2), applicant's legal counsel hereby affirms that every person who, according to the records of the property valuation administrator, owns property contiguous to the property where the proposed cellular antenna tower will be located has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his or her right to request intervention.

14. Pursuant to 807 KAR 5:063 §1(1)(m), a list of the property owners who received the notice together with copies of the certified letters sent to listed property owners is attached as Exhibit "F."

15. Pursuant to 807 KAR 5:063 § 1 (1)(n), applicant's legal counsel hereby affirms that the office of the Casey County Judge Executive has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of its right to request intervention.

16. Pursuant to 807 KAR 5:063 §1(1)(o), a copy of the notice sent to the office of the Casey County Judge Executive is attached as Exhibit "G."

17. Pursuant to 807 KAR 5:063 § 1 (1)(p), applicant's legal counsel hereby affirms that (i) two written notices meeting subsection two (2) of this section have been posted, one in a visible location on the proposed site and one on the nearest public road; and (ii) the notices shall remain posted for at least two weeks after the application has been filed.

18. Pursuant to 807 KAR 5:063 § 1 (2)(a), applicant's legal counsel affirms that:

> (a) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Bluegrass Wireless LLC proposes to construct a telecommunications tower on this site,***" including the addresses of the applicant and the Kentucky Public Service Commission, has been posted and shall remain in a visible location on the proposed site until final disposition of the application; and
>
> (b) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Bluegrass Wireless LLC proposes to construct a telecommunications tower near this site,***" including the addresses of the applicant and the Kentucky Public Service Commission, has been posted on the public road nearest the site.

A copy of each sign is attached as Exhibit "H."

19. Pursuant to 807 KAR 5:063 § 1 (1)(q), a statement that notice of the location of the proposed construction has been published in a newspaper of general circulation in the county in which the construction is proposed is attached as Exhibit "I."

20. Pursuant to 807 KAR 5:063 § 1(1)(r), the cell site, which has been selected, is located on real property in Dunnville, Kentucky that is currently used for agricultural purposes. The character of the general area in which the cell tower is proposed to be constructed is rural.

21. Pursuant to 807 KAR 5:063 §1(1)(s), Bluegrass Wireless has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service to the area can be provided, and that there is no reasonably available opportunity to co-locate. Bluegrass Wireless has attempted to co-locate on towers designed to host multiple wireless service providers' facilities or existing structures, such as a telecommunications tower, or another suitable structure capable of supporting the utility's facilities.

22. Pursuant to 807 KAR 5:063 § 1(1)(t), attached as Exhibit "J" is a map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the search area in which a site should, pursuant to radio frequency requirements, be located.

23. Pursuant to KRS 100.987(2)(a), a grid map, that is drawn to scale, that shows the location of all existing cellular antenna towers and that indicates the general position of proposed construction sites for new cellular antenna towers is attached as Exhibit "K."

24. No reasonably available telecommunications tower, or other suitable structure capable of supporting the cellular facilities of Bluegrass Wireless and which would provide adequate service to the area exists.

25. Correspondence and communication with regard to this application should be

addressed to:

John E. Selent
Holly C. Wallace
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
(502) 585-2207 (facsimile)
john.selent@dinslaw.com
holly.wallace@dinslaw.com

WHEREFORE, Bluegrass Wireless requests the Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the Dunnville cell site; and

2. Granting all other relief as appropriate.

Respectfully submitted,

John E. Selent
Holly C. Wallace
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
(502) 585-2207 (facsimile)
john.selent@dinslaw.com
holly.wallace@dinslaw.com

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33597-25

Kentucky

TC 56-50E (Rev. 02/05)

Kentucky Transportation Cabinet, Kentucky Airport Zoning Commission, 200 Mero Street, Frankfort, KY 40622

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

INSTRUCTIONS INCLUDED

Kentucky Aeronautical Study Number

1. APPLICANT -- Name, Address, Telephone, Fax, etc.
Scott McCloud
Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42702
T: 270-769-0339 F:270-737-0580

2. Representative of Applicant -- Name, Address, Telephone, Fax
Leila Rezanavaz
Lukas, Nace, Gutierrez & Sachs, LLP
8300 Greensboro Drive, Suite 1200
McLean, VA 22102
T: 703-584-8668 F: 703-584-8694

3. Application for: ☒ New Construction ☐ Alteration ☐ Existing

4. Duration: ☒ Permanent ☐ Temporary (Months _____ Days _____)

5. Work Schedule: Start 6/10/2010 End 6/15/2010

6. Type: ☒ Antenna Tower ☐ Crane ☐ Building ☐ Power Line
☐ Landfill ☐ Water Tank ☐ Other _____

7. Marking/Painting and/or Lighting Preferred:
☐ Red Lights and Paint ☒ Dual - Red & Medium Intensity White
☐ White - Medium Intensity ☐ Dual - Red & High Intensity White
☐ White - High Intensity ☐ Other _____

8. FAA Aeronautical Study Number 2010-ASO-2408-OE

9. Latitude: 37 ° 10 ' 31 . 00 "

10. Longitude: 85 ° 00 ' 11 . 54 "

11. Datum: ☒ NAD83 ☐ NAD27 ☐ Other _____

12. Nearest Kentucky City: Dunnville County Casey

13. Nearest Kentucky public use or Military airport:
Liberty-Casey County Airport

14. Distance from #13 to Structure: 10.0 Miles

15. Direction from #13 to Structure: SSE

16. Site Elevation (AMSL): 910.00 Feet

17. Total Structure Height (AGL): 255.00 Feet

18. Overall Height (#16 + #17) (AMSL): 1,165.00 Feet

19. Previous FAA and/or Kentucky Aeronautical Study Number(s):
N/A

20. Description of Location: (Attach USGS 7.5 minute Quadrangle Map or an Airport layout Drawing with the precise site marked and any certified survey)
Site is located at:
350 Pittman Road
Dunnville, KY 42528

21. Description of Proposal:

Structure: Proposed self-supporting tower with top-mounted antennas for overall height of 255' AGL.
Max. ERP: 250 Watts
Frequencies: PCS Block C

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration?
☐ No ☒ Yes, When May 11, 2010

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.

Leila Rezanavaz / Senior Consulting Engineer	Leila Rezanavaz	5/11/2010
Printed Name and Title	Signature	Date

PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 183.861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050:Series) are liable for fines and/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 ☐ Administrator, KAZC

☐ Approved

☐ Disapproved _____ Date _____

Federal Aviation Administration

« OE/AAA

Notice of Proposed Construction or Alteration - Off Airport

Project Name: BLUEG-000146240-10 **Sponsor:** Bluegrass Wireless, LLC.

Details for Case : Dunnville

Show Project Summary

Case Status

ASN: 2010-ASO-2408-OE
Status: Accepted

Date Accepted: 05/11/2010
Date Determined:
Letters: None
Documents: 05/11/2010 2C survey.pdf

Construction / Alteration Information

Notice Of: Construction
Duration: Permanent
If Temporary : Months: Days:
Work Schedule - Start: 06/10/2010
Work Schedule - End: 06/15/2010
State Filing: Filed with State

Structure Summary

Structure Type: Antenna Tower
Structure Name: Dunnville
FCC Number:
Prior ASN:

Structure Details

Latitude: 37° 10' 31.00" N
Longitude: 85° 0' 11.54" W
Horizontal Datum: NAD83
Site Elevation (SE): 910 (nearest foot)
Structure Height (AGL): 255 (nearest foot)
Requested Marking/Lighting: Dual-red and medium intensity
Other :
Recommended Marking/Lighting:
Current Marking/Lighting: N/A New Structure
Other :
Nearest City: Dunnville
Nearest State: Kentucky
Description of Location: Site is located at:
350 Pittman Road
Dunnville, KY 42528
Description of Proposal: Proposed self-supporting tower with top-mounted antennas for overall height of 255'.

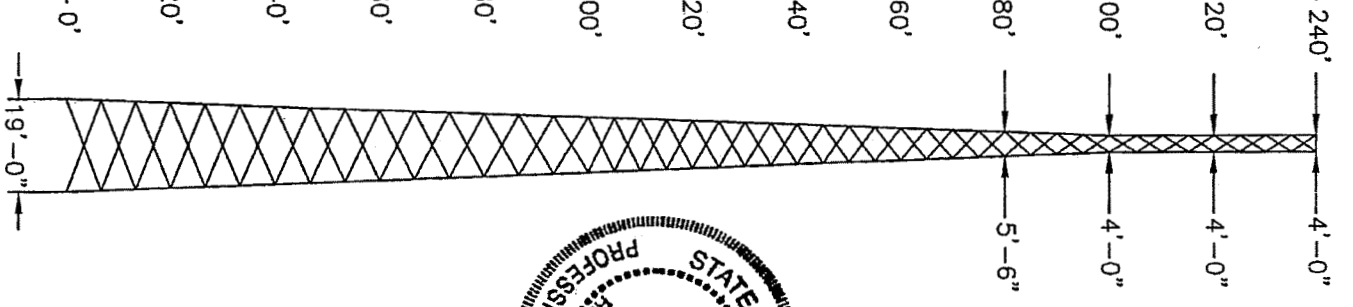
Common Frequency Bands

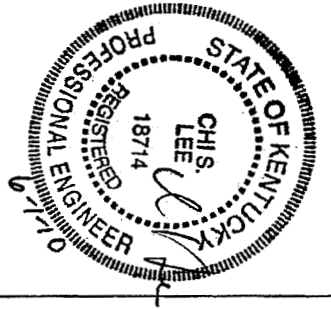
Low Freq	High Freq	Freq Unit	ERP	ERP Unit
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz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

Specific Frequencies

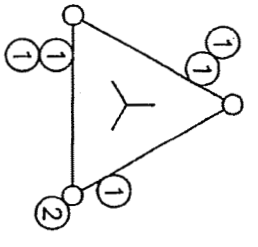
ALLSTATE TOWER INC.
P.O. BOX 25
HENDERSON, KY 42419
PHONE: (270) 830-8512
FAX: (270) 830-8475

LEG DIA.	ø4.25"	ø4.25"	ø4"	ø4"	ø3.75"	ø3.25"	ø3.25"	ø3"	ø3"	ø2.75"	ø2.5"	ø1.75"
DIAGONALS	L3 x .25"	L3" x .1875"		L2.5" x .1875"		L2" x .1875"		A				
GIRTS	N/A											A
BRACE BOLTS	ø.75"					ø.625"		ø.5"				
FLANGE BOLTS	ø1.25"					ø1"						
# OF BAYS	3 BAY : X-BRACED					4 BAY : X-BRACED						





PLAN VIEW REF:
1) (5) FEEDLINES
2) STEP BOLTS



PLAN VIEW

DESIGN NOTES:

1) ALL LEGS ARE SOLID ROUND ASTM A-572 GRADE : Fy ≥ 50 KSI.
2) ALL BRACE MATERIAL IS ASTM A-36 : Fy ≥ 36 KSI.
3) ALL BRACE AND FLANGE BOLTS ARE A325-X
4) (8) ø1.75" x 6'-0" LONG (A-36) ANCHOR BOLTS PER LEG.
5) THIS TOWER IS DESIGNED FOR A 90 M.P.H. WIND SPEED INCLUDING A 30 M.P.H. WIND SPEED WITH .75" OF ICE IN ACCORDANCE WITH THE TIA/EIA-222-G STANDARD.
6) EXPOSURE="C", TOPO. CAT.=Kzt 1.00, & STRUCTURE CLASS II

ELEV.	ANTENNAS	FEEDLINES
240'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
230'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
220'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
210'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
180'	(1) (ASSUMED 6') DISH	(1) 1.625"

--SEE PLAN VIEW FOR FEEDLINE DISTRIBUTION
--STEP BOLTS UTILIZED FOR CLIMBING WITH SAFETY CLIMB DEVICE

SYMBOL LIST:
A = L1.75" x .1875"

BASE REACTIONS: (FACTORED)

TOTAL SHEAR	= 44 KIPS
AXIAL LOAD	= 60 KIPS
UPLIFT / LEG	= 336 KIPS
COMP. / LEG	= 376 KIPS
O.T. MOMENT	= 5852 FT-K

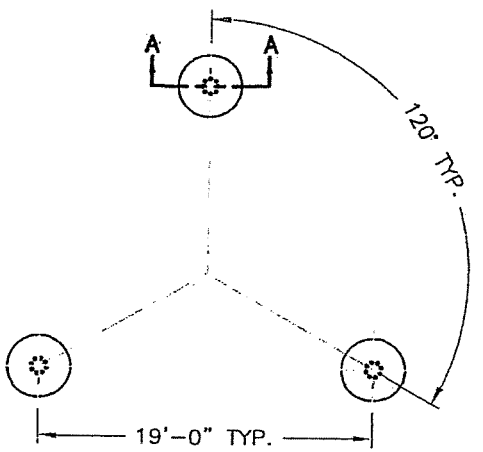
SCALE: N.T.S.
TOLERANCE BANDS
ALL DIMENSIONS ARE ±1/8" UNLESS OTHERWISE NOTED
APPROX. WEIGHT 35.99 KIPS

CUSTOMER: CUMBERLAND CELLULAR
DESCRIPTION: 240' SELF SUPPORT TOWER
LOCATION: CASEY COUNTY, KY
SITE: DUNNVILLE
PROPOSAL #: AB2160 -- S.S.T. DESIGN

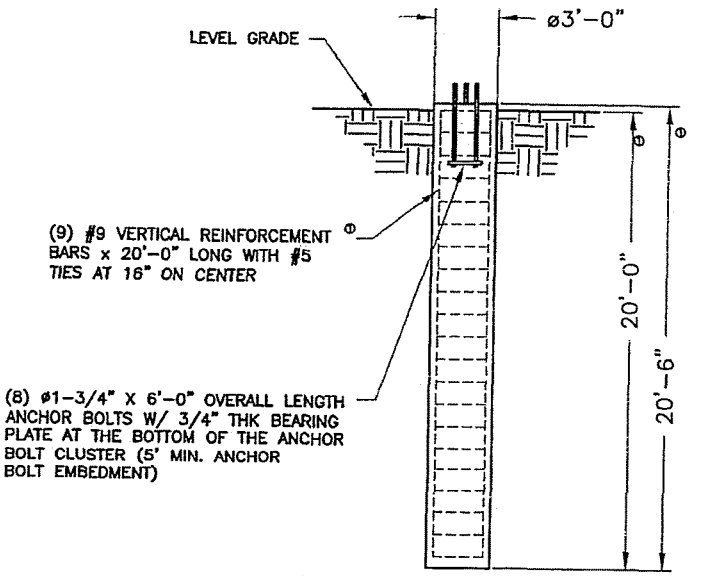
DRAWN BY: W.MILLER
DATE: 05/19/2010
REV: REV. NO.
REV. DATE: REV. DATE

JOB NO. 30413F
SHEET A

ALLSTATE TOWER LLC
P.O. BOX 25
HENDERSON, KY 42419
PHONE: (270) 830-8512
FAX: (270) 830-8475



PLAN VIEW



SECTION A-A
(3 REQUIRED)

TOTAL VOLUME OF CONCRETE PER CAISSON = 5.4 YD^3

TOTAL VOLUME OF CONCRETE FOR (3) CAISSONS = 16.2 YD^3

FOUNDATION INSTALLATION/DESIGN NOTES:

1. THIS FOUNDATION IS DESIGNED TO MEET ALL STANDARDS SET FORTH BY ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ANSI/TIA/EIA 222-G: STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. THIS FOUNDATION IS DESIGNED UTILIZING THE GEOTECHNICAL REPORT PERFORMED BY PATRIOT ENGR.; DATED 4-1-10; #5-09-0861; THE FOUNDATION CONTRACTOR SHALL INSTALL THE FOUNDATIONS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
3. ALL WORK PERFORMED FROM THESE DRAWINGS SHOULD BE BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER FOUNDATION CONSTRUCTION.
4. ALL FOOTING EXCAVATIONS SHALL BE MANUALLY CLEANED PRIOR TO PLACING CONCRETE. COMPACT THE EXPOSED SOIL SURFACE AND ANY GRANULAR FILL UNDER THE FOUNDATION TO 95% OF THE MODIFIED PROCTOR DENSITY.
5. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AFTER 28 DAYS. COPIES OF THE CONCRETE CYLINDER TEST REPORTS SHALL BE SENT TO THE RESIDENT ENGINEER / INSPECTOR.
6. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE 3".
7. FIELD BENDING OR WELDING OF REINFORCEMENT BARS IS NOT PERMITTED.
8. PROVIDE CHAMFERS AT ALL EXPOSED CORNERS OF CONCRETE.
9. BACKFILL NEAR AND AROUND THE FOUNDATIONS SHALL BE A WELL GRADED FILL MATERIAL PLACED IN 8" THICK LAYERS THAT HAS BEEN COMPACTED TO 95% OF THE MODIFIED PROCTOR DENSITY PER ASTM D1557.
10. SOME DETAIL HAS BEEN PURPOSELY OMITTED TO CLARIFY ILLUSTRATION.

REINFORCEMENT BAR SPLICING:

1. ALL LAP SPLICES SHALL CONFORM TO ACI 318 REQUIREMENTS.
2. REFER TO CHART BELOW WHEN REINFORCMENT BAR SPLICING IS NECESSARY.

REINFORCING BAR SIZE	LAP SPLICE LENGTH
3	15"
4	17"
5	21"
6	26"
7	30"
8	36"
9	46"
10	58"
11	71"

STATE OF KENTUCKY
CHI S. LEE
18714
REGISTERED
PROFESSIONAL ENGINEER
6-7-10

SCALE: N.T.S.
TOLERANCE BANDS: ALL DIMENSIONS ARE ±1/8" UNLESS OTHERWISE NOTED. ALL ANGLES ARE ±1/2° UNLESS OTHERWISE NOTED.
APPROX. WEIGHT: N/A

CUSTOMER: CUMBERLAND CELLULAR
DESCRIPTION: CAISSON FOUNDATION DESIGN
LOCATION: CASEY COUNTY, KY
SITE: DUNNVILLE
PROPOSAL #: AB2160 - CAISSON DESIGN

DRAWN BY: W.MILLER
DATE: 05/19/2010
REV: X
REV. DATE: X
JOB NO: 30413F
SHEET: B

Report of
Geotechnical Engineering Investigation
Dunnville Cell Tower
Dunnville, Casey County, KY
Patriot Project No. 5-09-0861

Prepared For:

Jeff Brewer
Bluegrass Cellular
2902 Ring Road
P.O. Box 5012
Elizabethtown, KY 42702

Prepared By:

Patriot Engineering and
Environmental, Inc.
400 Production Court
Louisville, Kentucky 40299

April 1, 2010

PATRIOT ENGINEERING and Environmental, Inc.
Engineering Value for Project Success
Consulting Environmental, Geotechnical and Materials Engineers

April 1, 2010

Bluegrass Cellular
2902 Ring Road
P.O. Box 5012
Elizabethtown, KY 42702

Attention: Jeff Brewer, Project Manager

RE: Report of Geotechnical Engineering Investigation
Dunnville Cell Tower
Dunnville, Casey County, KY
Patriot Project Number 5-09-0861

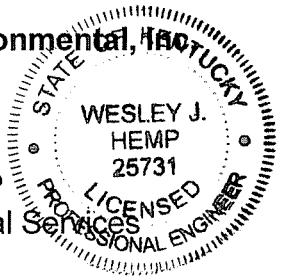
Dear Jeff:

Submitted herewith is the report of our subsurface investigation for the above-referenced project. This investigation was completed in general accordance with our Proposal Number PLE08-0025 dated June 19, 2008.

This report includes detailed and graphic logs of the one (1) soil test boring drilled at the proposed site. Also included in the report are the results of laboratory tests performed on samples obtained from the site, and geotechnical recommendations pertinent to the foundation design and construction.

We appreciate the opportunity to have performed this geotechnical engineering investigation and are looking forward to working with you during the construction phase of the project. If you have any questions regarding this report or if we may be of any additional assistance regarding any geotechnical aspect of the project, please do not hesitate to contact our office.

Respectfully submitted,
Patriot Engineering and Environmental, Inc.



Wesley J. Hemp, P.E., LEED AP
Director – Louisville Geotechnical Services

Richard L. Johnson, P.E.
Senior Project Engineer

Attachment: Report of Geotechnical Engineering Investigation

TABLE OF CONTENTS

REPORT OF GEOTECHNICAL ENGINEERING INVESTIGATION

Dunnville Cell Tower
Dunville, Casey County, KY
Patriot Project No. 5-09-0861

1.0 INTRODUCTION

1.1 General

Bluegrass Cellular is planning the construction of a new cell tower to be located in Dunnville, Casey County, Kentucky. The results of our geotechnical engineering investigation for the project are presented in this report. This investigation was carried out in general accordance with *Patriot's* Proposal No. PLE08-0025, dated June 19, 2008.

1.2 Purpose and Scope

The purpose of this investigation was to determine the general near surface and subsurface conditions within the project area and to develop the geotechnical engineering recommendations necessary for the design and construction of the structure. This was achieved by drilling a soil test boring at 1 location, and by conducting laboratory tests on samples taken from the boring. This report contains the results of our findings, an engineering interpretation of these results with respect to the available project information, and recommendations to aid in the design and construction of the proposed cell tower facility.

2.0 PROJECT INFORMATION

The proposed project includes a self-supported cell tower to be constructed in Dunnville, Casey County, KY. Structural loading information for this project was not available at the time of this report. However, information provided by the client in regards to projects of a similar size and scope indicates that the tower height will not exceed 240 feet. We estimate that the ultimate structural loads will not exceed the following loading conditions for each tower leg:

Vertical (Downward) Load:	400 kips
Uplift:	330 kips
Horizontal Shear:	50 kips

3.0 SITE AND SUBSURFACE CONDITIONS

3.1 Site Conditions

The area for the proposed cell tower consists of a grass covered pasture with an undulating ground surface. The immediate vicinity of the actual proposed tower location is generally flat. An old abandoned home is located just south the proposed tower center and within the 100' x 100' lease area. An existing barn and cemetery are located approximately 0.15 and 0.25 miles, respectively, from the tower area. The ground surface was generally dry during the time of our investigation.

3.2 Site Geology

Information pertaining to soil characteristics in the project area was obtained through the Kentucky Geological Survey Website and Interactive GIS Map, and experience with previous geotechnical investigations in the area.

The site is located in the Mississippian Plateaus Physiographic Region in south central Kentucky. The bedrock at or near the surface consists of sedimentary rock and is of Mississippian age. Specifically, the underlying bedrock is referred to as Salem and Warsaw Formations. These formations consist of medium to coarse-grained limestone that weathers to red silty soil. Information provided by the Kentucky Geological Society Karst Potential Map indicates the project is located in an area of medium karst potential, meaning that the underlying bedrock is susceptible to the formation of sinkholes. The map indicates the presence of a large sinkhole approximately 300 feet east of the proposed tower lease area.

The available geologic information also indicates the presence of two (2) faults near the proposed tower area: The Goose Creek Fault, which runs in a north-south direction approximately 400 feet west of the tower lease area, and an unnamed concealed fault located approximately 2000 east of the lease area that is also oriented in a north-south direction. No record of recent movement along these faults was discovered when reviewing the information made available on the KGS website.

3.3 Subsurface Conditions

Our interpretation of the subsurface conditions is based upon one soil boring drilled at the approximate location shown on the Boring Location Map in Appendix A. The following discussion is general; for more specific information, please refer to the

boring log presented in Appendix A. It should be noted that the dashed stratification lines shown on the soil boring log indicate approximate transitions between soil types. In situ stratification changes could occur gradually or at different depths. All depths discussed below refer to depths below the existing ground surface.

The parcel is generally covered with topsoil, a surficial layer of material that is a blend of silts, sands, and clays, with varying amounts of organic matter. The topsoil layer was about 5 inches thick in the test boring.

Below the topsoil surface cover, the boring encountered highly plastic (CH) clay described as reddish brown, moist, and stiff to very stiff to a depth of 6.0 feet. Highly plastic (CH) clay described as light brown, moist, and very stiff with black oxide nodules was encountered below this layer to a depth of about 8.5 feet. Below the highly plastic clay layers, the boring encountered grayish brown, dry to moist, very stiff to hard clayey silt until auger refusal was encountered at a depth of 13.7 feet.

Standard Penetration Test blow counts (N-values) were 10 blows per foot (bpf) in the upper 3.5 feet, 9 bpf between 3.5 and 6.0 feet, 17 bpf between 6.0 and 8.5 feet, and 23 bpf between 8.5 and 10.0 feet. Natural moisture contents in these soils ranged from 20 to 26 percent with an average of about 24 percent. Unconfined compressive strengths as determined with a hand penetrometer ranged from 2.25 to 4.5 tsf (tons per square foot).

Upon reaching auger refusal, 10 feet of rock coring was performed. Limestone described as light gray, fresh, medium to very coarse-grained, crystalline, vuggy, and very hard was recovered from the core hole. Please refer to the table below for more information in regards to rock coring recovery and RQD (Rock Quality Designation).

Table 1 – Rock Coring Data

Depth (ft)	Recovery (%)	RQD (%)	Rock Quality
13.7-18.7	98	92	Excellent
18.7-23.7	100	59	Fair

A portion of the recovered rock core sample from 14.6 to 14.9 feet was subjected to

compressive strength testing. The results revealed an unconfined compressive strength of 5150 psi.

3.4 Groundwater Conditions

Groundwater was not encountered during or upon completion of drilling operations.

The term groundwater, for the purpose of this report, pertains to any water that percolates through the naturally occurring soil materials found on site. This includes any overland flow that permeates through a given depth of soil, perched water, and water that occurs below the "water table", a zone that remains saturated and water bearing year round.

It should be recognized that fluctuations in the groundwater level should be expected to occur due to variations in rainfall and other environmental or physical factors at the time measurements are made. The true static groundwater level can only be determined through observations made in cased holes over a long period of time, the construction of which was beyond the scope of this investigation.

4.0 DESIGN RECOMMENDATIONS

4.1 Basis

Our recommendations are based on data presented in this report, which include a soil boring, laboratory testing and our experience with similar projects. Subsurface variations that may not be indicated by a dispersive exploratory boring program can exist on any site. If such variations or unexpected conditions are encountered during construction, or if the project information is incorrect or changed, we should be informed immediately since the validity of our recommendations may be affected. Refer to Appendix B for additional qualifications and contractual considerations.

4.2 Tower Foundation

Drilled Piers

The structure may be supported on a deep foundation system consisting of drilled piers. Drilled piers may be designed using the net allowable end bearing pressures and allowable skin friction values shown in the table below.

Depth Range (feet)	*Soil Type*	*Allowable Skin Friction (psf)*	*Allowable End Bearing Pressure (psf)*	*Angle of Shearing Resistance (degrees)*	**Cohesion (psf)*
0.0-5.0	Topsoil and Fat Clay	Ignore	Ignore	Ignore	Ignore
5.0-8.5	Fat Clay	550	5,200	0	1,600
8.5-14.0	Clayey Silt	250	5,200	0	750
>14.0	Limestone	3,500	60,000	0	20,000

*** It should be noted that the recommended cohesion value does not include a factor of safety.**
**** Drilled piers on rock should bear at a minimum depth of 16 feet below existing site grade.**

Development of the design capacity is based on the following conditions or criteria:

- Drilled Piers should be designed as straight shaft and have a minimum diameter of 30 inches and be installed to a minimum depth of four times the pier diameter.
- The center-to-center spacing of the shafts will be a minimum of 2.5 pier diameters.
- Load applied to the shaft cap is uniformly distributed to each of the piers.
- Shafts should be constructed in accordance with the recommendations for shaft construction in Section 5.1 of this report.
- The drilled piers should be installed by a specialty contractor experienced in drilled pier installation.

For drilled pier design, the net allowable end bearing pressure is based on loads applied at the pier cap. The weight of the pier or the pier cap need not be included in the downward axial load used to dimension the pier.

Mat Foundation

Alternatively, the cell tower may be supported using a mat foundation. The maximum allowable bearing pressure for mat foundation design should not exceed the values provided in the table below.

Depth Range (feet)	*Soil Type*	*Allowable Bearing Pressure (psf)*	*Friction Coefficient*
2.0-6.0	Silty Fat Clay	2,200	-
6.0-8.5	Fat Clay	4,200	-
8.5-14.0	Clayey Silt	4,200	-
>14.0	Limestone	60,000	0.60

The thickness of the mat should be sufficient to support the tower as a rigid mat without flexure. For mat foundation design, we recommend that the modulus of subgrade reaction, "K_{30}", not exceed ***300*** pounds per cubic inch for a mat bearing on competent limestone bedrock, and ***75*** pci for a mat bearing on highly-plastic fat clay. ***As noted in Section 3.3 of this report, highly plastic (CH) fat clays that are subject to volume change due to fluctuations in moisture content were encountered to a depth of approximately 8.5 feet below the existing subgrade elevation. Should the mat foundation bear on these materials, the mat should be of sufficient thickness to withstand potential damage caused by the volume changes in that fat clay subgrade.***

The mat should be constructed in compliance with the recommendations discussed in the Construction Considerations (Section 5.0) of this report.

A detailed settlement analysis was beyond the scope of this report; however, we estimate that the total settlement of the mat foundation bearing on competent sandstone bedrock should not exceed approximately 1 inch. Careful field control during construction is necessary to minimize the actual settlement that will occur.

4.3 Maintenance Building Foundations

The proposed structure can be supported on spread footings bearing on structural fill after over-excavating to a minimum depth of 24 inches below the foundation bearing elevation and replacing with an equal amount of approved compacted structural fill. ***The reason for this over-excavation and replacement is to reduce the potential for volume changes in the underlying highly plastic fat clay (CH) that could damage structure foundation due to changes in moisture content.*** These footings may be proportioned using a net allowable soil bearing pressure not exceeding ***2,200*** pounds per square foot (psf) for wall footings, provided the foundations are constructed in compliance with the recommendations discussed in Section 5.0 of this report.

In using the above net allowable soil bearing pressure, the weight of the foundation and backfill over the foundation need not be considered. Hence, only loads applied at or above the minimum finished grade adjacent to the footing need to be used for dimensioning the foundations. Each new foundation should be positioned so it does not induce significant pressure on adjacent foundations; otherwise the stress overlap must be considered in the design.

All exterior foundations and foundations in unheated areas should be located at a depth of at least 24 inches below final exterior grade for frost protection. We recommend that strip footings be at least 18 inches wide and column footings be at least 24 inches wide.

We estimate that the total foundation settlement should not exceed approximately 1 inch and that differential settlement should not exceed about ¾ inch for footings bearing at shallow depths on stiff clayey silt or structural fill. Careful field control during construction is necessary to minimize the actual settlement that will occur.

Positive drainage of surface water, including downspout discharge, should be maintained away from structure foundations to avoid wetting and weakening of the foundation soils both during construction and after construction is complete.

4.4 Floor Slabs

It should be noted that a test boring was not performed for the proposed maintenance building. Therefore, the following discussion should be considered general in regards to floor slabs.

The shallow highly plastic clay soils encountered in the test boring are not suitable for floor slab support without some remediation. Where encountered, any highly-plastic fat clay should be over-excavated to a minimum depth of 24 inches below the slab bearing elevation and replaced with an equal amount of approved compacted structural fill.

Depending upon the time of year in which floor slabs are constructed native subgrade may be soft or frozen. If floor slab construction takes place during the rainy season or the winter months, some undercutting should be expected prior to placement of the granular base course.

We recommend that all floor slabs be designed as "floating", that is, fully ground supported and not structurally connected to walls or foundations. This is to minimize the possibility of cracking and displacement of the floor slab because of differential movements between the slab and the foundation. Although the movements are estimated to be within the tolerable limits for the structural safety, such movements could be detrimental to the slabs if they were rigidly connected to the foundations.

The building floor slab should be supported on a minimum 6-inch thick, granular base course, bearing on a suitably prepared subgrade (refer to Section 5.0 Construction Considerations). The granular base course is expected to help distribute loads and equalize moisture conditions beneath the slab. All slabs should be liberally jointed and designed with the appropriate reinforcement for the anticipated loading conditions.

4.5 Modulus of Subgrade Reaction

A modulus of subgrade reaction, "K_{30} ", value of ***75*** pounds per cubic inch (pci) is recommended for the design of ground supported floor slabs bearing on native clay subgrade. It should be noted that the "K_{30}" modulus is based on a 30-inch diameter plate load test and a CBR value of ***1.5***.

4.6 Access Road and Parking Area

No test borings were performed for the tower access drive. It is possible that conditions different than those encountered at the tower location may exist along the access drive. Therefore, the following discussion should be considered general in nature in regards to access road and parking areas.

The near surface highly plastic (CH) soil encountered in the test boring are generally suitable for support of the access road and parking area, assuming that these areas will not be paved. If the areas are to be paved, we recommend that the areas be over-excavated to a minimum depth of 24 inches below the pavement bearing elevation where highly plastic clays are encountered and replaced with approved compacted structural fill. As previously discussed, highly plastic clays are subject to volume change due to changes in moisture content. Pavements are especially susceptible to these effects and damage caused by frost action during the cold season due to the presence of highly plastic soils.

Depending upon the time of year in which access road and parking areas are constructed the exposed subgrade may be soft. If soft areas are encountered during construction, the areas should be undercut and replaced with approved compacted structural fill as outlined in section 5.0 of this report. If construction is performed during a wet or cold period, the contractor will need to exercise care during the grading and fill placement activities in order to achieve the necessary subgrade soil support for the access road (See Section 5.0 for Construction Considerations).

It is assumed that the access drive/parking lot design for this project will consist of crushed stone overlying the existing soil and/or rock subgrade. A pavement section without asphalt or concrete surface cover will require regular maintenance due to degradation of soils caused by inclement weather, vegetation growth, and vehicular traffic. Therefore, the pavement section will require routine maintenance to keep the access drive and parking areas functional.

The base soil for the access road and parking will need to be firm and dry. The subgrade should be sloped properly in order to provide good base drainage. To minimize the effects of groundwater or surface water conditions, the base section for the driveway should be sufficiently high above adjacent ditches and properly graded to

provide adequate drainage.

Our recommendations are based on the assumption that the access drive and parking areas will be constructed on proofrolled natural soils, or on structural fill overlying the same. Serviceable pavements can be achieved by different combinations of materials and thickness, varied to provide roughly equivalent strengths. In addition, local practice for existing pavement construction should be reviewed for other blends, combinations of materials that have been found satisfactory, and for applicable minimum standards.

4.7 Seismic Considerations

We have reviewed Section 1615 of the 2007 Kentucky Building Code with respect to the subsurface conditions disclosed by our geotechnical investigation and the following recommendations and comments are presented for your use in developing the seismic design criteria for the structural design. For structural design purposes, we recommend using a **Site Class of C** as defined by the 2007 Kentucky Building Code. Other earthquake resistant design parameters should be applied consistent with the minimum requirements of the Kentucky Building Code. The Site Class of C was based on cohesive (clayey) soils with an average undrained shear strength of 1,000 psf to a depth of 15 feet and hard limestone bedrock with an average shear wave velocity of 2,500 feet/second from 15 to 100 feet.

4.8 Earth Resistivity Testing

Resistivity testing of the subsurface materials was performed utilizing a Metrel Earth-Insulation Tester. The four point Wenner Array was utilized. The setup of this array consists of placing four equally spaced electrodes in a straight line along the subgrade. A current is sent through the outer two probes via the test meter, while the two inner probes measure the voltage drop due the current flow. The resistance is then calculated utilizing Ohm's Law. Earth resistivity measurements were performed along two lines running perpendicular to one another through the center of the proposed tower location at 5, 10, 15, 20, 30, and 40 foot spacing's. Please refer to the table below for testing results.

Figure 2 - Earth Resistivity Testing Results			
Line A-A'		Line B-B'	
Spacing (ft.)	Resistivity (Ω-m)	Spacing (ft.)	Resistivity (Ω-m)
5	98	5	57
10	80	10	60
15	87	15	75
20	96	20	89
30	119	30	121
40	121	40	148

5.0 CONSTRUCTION CONSIDERATIONS

5.1 Site Preparation

All areas that will support foundations, floors, pavements or newly placed structural fill must be properly prepared. All loose surficial soil, topsoil, fill and other unsuitable materials must be removed. Unsuitable materials include: frozen soil, relatively soft material, relatively wet soils, deleterious material, soils that exhibit a high organic content.

Prior to construction of floor slabs or pavements or the placement of new structural fill, the exposed subgrade must be evaluated by the Patriot representative. The evaluation should include proofrolling of the subgrade.

Care must be exercised during grading and fill placement operations. The combination of heavy construction equipment traffic and excess surface moisture can cause pumping and deterioration of the near surface soils. The severity of this potential problem depends to a great extent on the weather conditions prevailing during construction.

5.2 Foundation Excavations

Drilled Shaft Excavations

The drilled shaft excavations should be observed by *Patriot's* geotechnical engineer or his representative to verify that the foundations will bear at the specified minimum depth and with the minimum bearing requirements, as recommended in Section 4.2 of this report. To confirm adequate bearing, *Patriot's* site representative will visually examine a sample of the bedrock taken at the proposed bearing depth. Surface runoff or seepage water should be drained away from the drilled pier excavation and not be allowed to collect in the excavation.

Additional recommendations for drilled pier foundation construction are presented below:

- The geotechnical engineer should be retained to document the shaft diameter, depth, cleanliness, plumbness, and type of end bearing material during pier construction.
- The foundation bearing material should be evaluated after the bottom of the hole is leveled, cleared of any mud and extraneous materials, and dewatered.
- The drilling equipment should have the capacity to produce a torque of at least 500,000 inch-pounds and a downward force of at least 50,000 pounds.
- Temporary protective steel casing should be available to be installed in the pier, if necessary, to prevent sidewall collapse and excessive mud and water intrusion into the opened excavation. The casing may be extracted as the excavation is filled with concrete. However, the protective casing should not be removed until the weight of concrete placed into the pier exceeds the ground water head.
- A positive head of concrete (minimum of 5 feet) should be maintained above the bottom of the casing during withdrawal and the contractor should prevent concrete from "hanging-up" inside the shell, which may allow soil and water intrusion below the shell.
- If groundwater seepage into the drilled pier excavation is less than 20 gallons per minute, pumps should be used to maintain less than two inches of water. After observation and evaluation of the pier bottom by the geotechnical engineer, the pumps should be removed and concrete placement initiated immediately. If water is flowing into the hole at a rate greater than 20 gallons per minute, the geotechnical engineer should be consulted for guidance.

- Concrete with slumps ranging between four and seven inches should be used for backfilling the piers.
- Concrete placement into the drilled hole should be directed through a centering device located at the ground surface. If significant groundwater inflow is encountered, a tremie pipe should be used during the concrete placement.
- Construction techniques used for drilled pier installation should conform to applicable Occupational Safety and Health Administration (OSHA) regulations.

Spread Footing & Mat Foundation Excavations

The exposed clay or limestone bedrock in the base of the foundation (except for foundations bearing on structural backfill) should be observed by a Patriot site representative to confirm that bearing material of adequate strength has been reached and that no highly plastic (CH) clay materials are present beneath the foundations. Any localized soft soil zones encountered at the bearing elevation should be further excavated until adequate support materials encountered. The cavity should be backfilled with approved structural fill as outlined in Section 5.3 of this report.

When it is necessary to support the foundation on structural fill, then the fill pad must extend laterally a minimum distance beyond the edge of the mat foundation. The minimum structural pad width would correspond with a point at which an imaginary line extending downward from the outside edge of the footing at a 1H:2V slope intersects the surface of the natural soils. For example, if the depth to the bottom of excavation is 2 feet below the bottom of the foundation, the excavation would need to extend laterally beyond the edge of the footing at least 1 foot, as shown in Illustration A found at the conclusion of this report.

Excavation slopes should be maintained within OSHA requirements. In addition, we recommend that any surcharge fill or heavy equipment be kept at least 5 feet away from the edge of the excavation. In addition, excavations that occur near existing in-use foundations should be carefully performed, making a conscious effort not to undermine the support of the in-use foundations. If it is necessary to excavate soils adjacent to and below the bearing elevation of any in-use foundations *Patriot* should be contacted to make further recommendations regarding these excavations. Please refer to Illustration B in Appendix A for further details.

Construction traffic on the exposed surface of the bearing soils will potentially cause some disturbance of the subgrade and consequently loss of bearing capacity. However, the degree of disturbance can be minimized by proper protection of the exposed surface.

5.3 Structural Fill and Fill Placement Control

Structural fill, defined as any fill that will support structural loads, should be clean and free of organic material, debris, deleterious materials and frozen soils. Samples of the proposed fill materials should be tested prior to initiating the earthwork and backfilling operations to determine the classification, natural and optimum moisture contents, maximum dry density and overall suitability as a structural fill.

Structural fill should be limited to compacted No. 57 Stone, DGA, or lean clay placed and compacted in accordance with this report, or lean concrete. Any clay borrow should have a liquid limit of less than 40 percent and a plasticity index of less than 20 percent. If the mat foundation bears directly on the bedrock surface, suitable structural fill should be limited to No. 57 Stone or lean concrete. The on-site highly plastic soils should not be used as fill (unless used as overburden backfill for the mat foundation, assuming the clay may be compacted to a sufficient unit weight).

All structural fill placed beneath floor slabs and above the foundation bearing elevation should be compacted to at least 95 percent of its maximum Standard Proctor dry density (ASTM D-698). This minimum compaction requirement should be increased to 100 percent of the maximum Standard Proctor dry density for fill supporting footings or the mat foundation, provided foundations are designed as outlined in Recommendations, Section 4.2.

It may be necessary to scarify and recompact the near surface soil prior to placement of the pavement sections. Any fill placed or recompacted within 1 ft of the base of the pavement section should also be compacted to at least 100 percent of the Standard Proctor maximum dry density. This can be reduced to 95 percent for engineered fill placed more than 1 ft below the base of the pavement section.

To achieve the recommended compaction of the structural fill, we suggest that the fill be

placed and compacted in layers not exceeding eight inches in loose thickness. A Patriot soils engineer or his representative should monitor all fill placements.

5.4 Groundwater

Groundwater was not encountered during or upon completion of drilling operations in the test boring. Groundwater inflow into shallow excavations above the groundwater table is expected to be adequately controlled by conventional methods such as gravity drainage and/or pumping from sumps. More significant inflow can be expected in deeper excavations below the groundwater table requiring more aggressive dewatering techniques, such as well or wellpoint systems. For groundwater to have minimal effects on the construction, foundation excavations should be constructed and poured in the same day, if possible.

5.5 Sinkhole Considerations

Review of available geologic information and our prior experience in the area suggests the site is located in a karst region. Therefore, the underlying limestone bedrock may be susceptible to solution weathering. Review of published geologic literature indicates that a large sinkhole is located just east of the proposed lease area. There are risks associated with construction activity in karst regions, including some risk of future dropout occurrence. It is possible that site grading activity may uncover insipient sinkholes that were not previously discovered by our investigation. A quantitative evaluation of this risk is beyond the scope of this geotechnical engineering investigation. However, qualitative assessments may be made based on past experience in the area and other site specific indicators. In our opinion, the risks at this site should be no greater than that of numerous other sites which have been successfully developed in the general area of the site. Therefore, the following general discussion should be considered in regard to sinkholes and their treatment.

Our prior experience with similar sites indicates that the risks associated with future sinkhole development can be reduced by properly treating existing sinkholes and prudent site design and development procedures.

Solution activity typically results from water movement through the limestone bedrock. Therefore, an important factor in site design and construction is to reduce the quantity of surface water which is allowed to infiltrate into the subgrade near planned structural areas. We recommend that project design and construction include the following considerations:

- Building and pavement areas should be sited as far as practical, horizontally from identified solution features.
- All surface drainage should be directed away from structural areas.
- Water should not be allowed to pond in structural areas.
- Water collected from the roof systems should be collected in pipes and suitably disposed of in non-structural areas. The collected waters should not be routed and discharged to sinkholes near structural areas.
- All water pipelines and planters should be designed and installed such that leakage and water infiltration is minimized.

The actual method used for treating of sinkholes is typically dependent on the depth to limestone bedrock (as shown in illustration C). For shallow bedrock conditions, an acceptable method of treatment is to excavate the sinkhole throat to a defined opening in the limestone bedrock at the soil/rock interface (Illustration C – top). The exposed area should be properly cleaned and then plugged with lean concrete. Once the area is plugged, the excavation may be backfilled to desired grade with properly placed and compacted fill.

Construction of a graded inverted filter inside the cone of depression is another treatment method available (Illustration C – bottom). This methodology is more suitable for deeper (i.e., greater than 10 to 15 feet) bedrock conditions. The filter should be constructed by initially excavating the area down to limestone, exposing the solution drainage channel if possible. At this level, a suitable geotextile fabric (such as used for pavement edge drains) should be placed over the excavated area. The fabric should extend up on each side of the trench, with enough material to overlap the top of the excavation after backfilling. The area can then be backfilled using crushed limestone. A minimum thickness of 24 inches of coarse crushed limestone (such as No. 1 stone) should be placed initially and covered with finer clean crushed limestone (such as DGA stone). Upon completing the stone backfilling, the geotextile should overlap the top of the stone to encapsulate the plug. We recommend that a layer of compacted soil fill cap of at least one-foot thick be placed over the encupsulated stone plug to limit surface water migration into the inverted filter. We recommend that collected surface waters not be routed to or discharged into the treated sinkholes. Our experience indicates that changes in the quantity of water discharged into solution features may result in enlargement of the feature, even after treatment. If solution

features are identified during construction activities, the geotechnical engineer should be contacted for guidance.

6.0 INVESTIGATIONAL PROCEDURES

6.1 Field Work

A total of 1 boring was performed at the project site on March 15, 2010 at the approximate location shown on the Boring Location Plan in Appendix A. The boring was drilled in the center of the cell tower area to auger refusal, which was encountered at a depth of 13.7 feet. Upon reaching auger refusal, ten (10) feet of rock coring was performed. All depths are given as feet below the existing ground surface.

The boring was advanced using 3¼" I.D. (inside diameter) hollow-stem augers. Samples were recovered in the undisturbed material below the bottom of the augers using the standard drive sample technique in accordance with ASTM D 1586-74. A 2" O.D. by $1^3/_8$" I.D. split-spoon sampler was driven a total of 18 inches with the number of blows of a 140-pound hammer falling 30 inches of penetration is the Standard Penetration Test result commonly referred to as the N-value (or blow-count). Split-spoon samples were recovered at 2.5-foot intervals, beginning at a depth of 1 foot below the existing surface grade, extending to the auger refusal depth. Water levels were monitored at the borehole location during drilling and upon completion of the boring. The borehole was backfilled with auger cuttings prior to demobilization for safety considerations. For rock coring, a double-tube NX core barrel with a diamond bit was used to obtain the core sample.

Earth Resistivity Testing was performed at the site on March 16, 2010. The testing was performed along two lines running perpendicular to one another through the center of the proposed tower location.

Upon completion of the boring program, all of the samples retrieved during drilling in this sampling program were returned to *Patriot*'s soils testing laboratory where they were visually examined and classified. A laboratory generated log was prepared based upon the driller's field log, laboratory test results, and our visual classification. The test boring log and a description of the classification system are included in Appendix A in this report. Indicated on the log are the primary strata encountered, the approximate

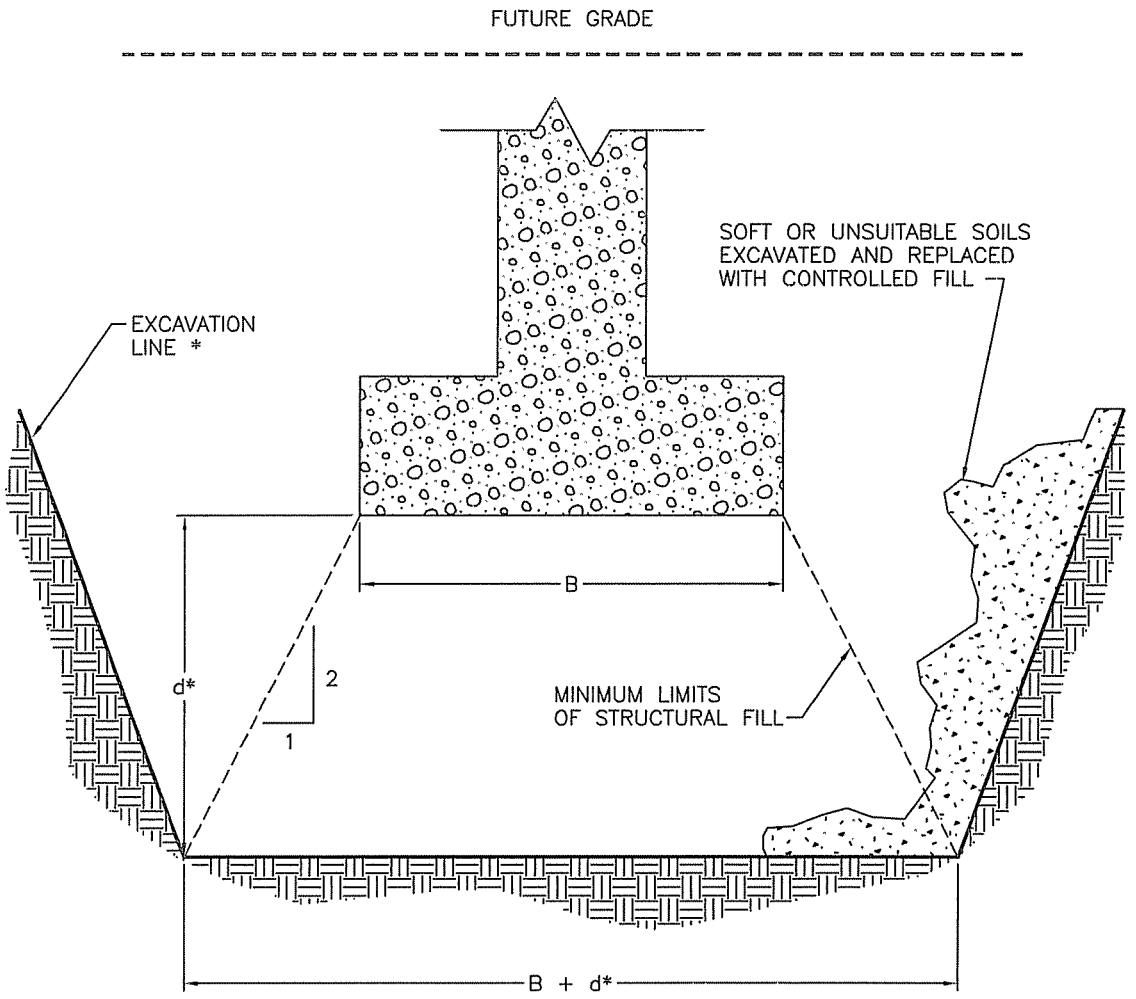
depth of each stratum change, depth of sample, the Standard Penetration Test results, groundwater conditions, and select laboratory test data. The laboratory log was prepared giving the appropriate sample data and the textural description and classification.

6.2 Laboratory Testing

Representative samples recovered in the boring were selected for testing in the laboratory to evaluate their physical properties and engineering characteristics. Laboratory analyses included natural moisture content determinations (ASTM D 2216), an estimate of unconfined compressive strength testing by use of a calibrated hand penetrometer, and other testing as deemed applicable. The results of all laboratory tests are shown on the boring log.

7.0 ILLUSTRATIONS

See Illustrations A, B, and C on the following pages. These illustrations are presented to further visually clarify the Construction Considerations presented in Section 5.2.



*d IS DEPTH TO SUITABLE SOILS

* IN COMPLIANCE WITH OSHA STANDARDS

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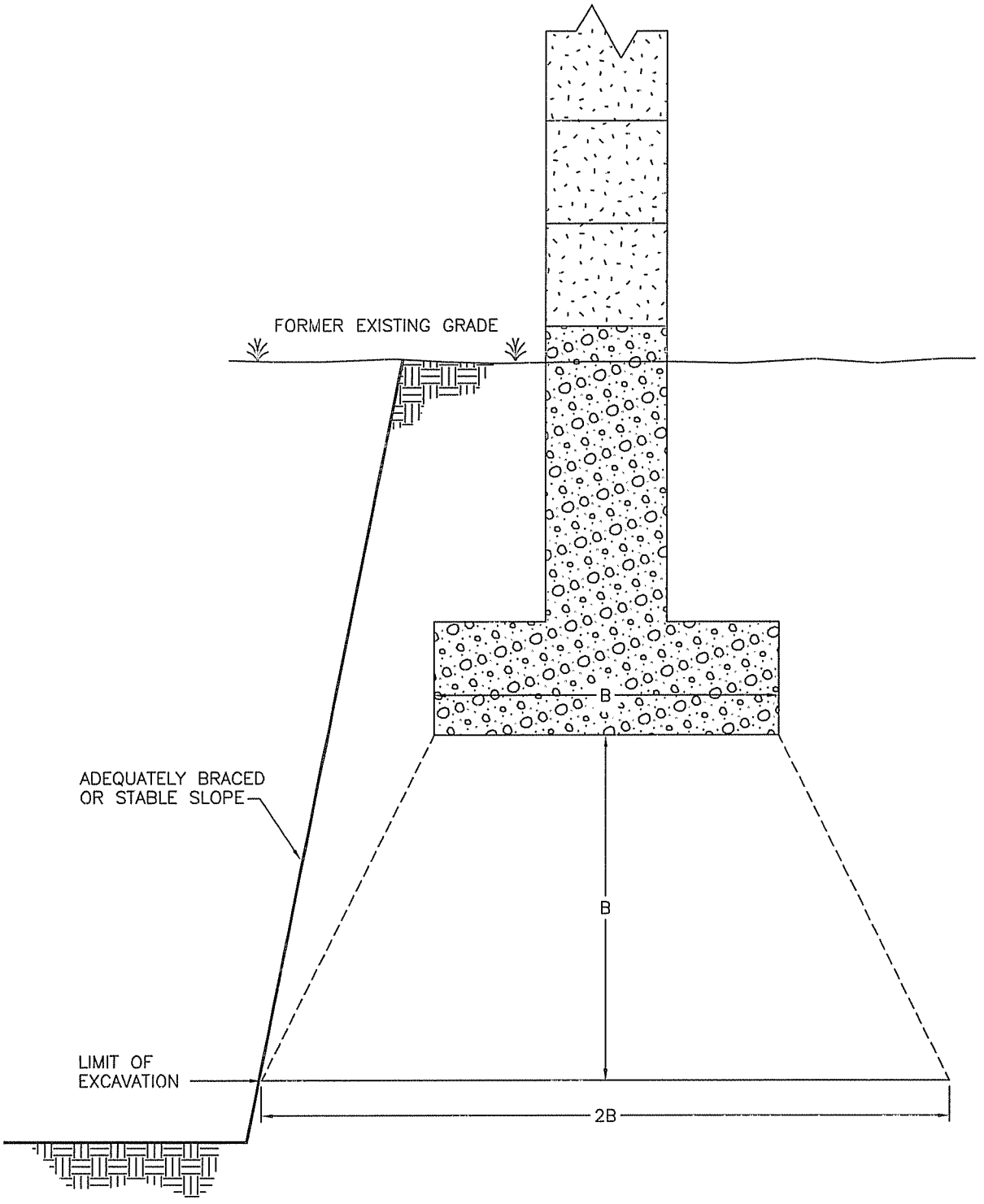
Excavation for Footings
In an Area of Fill
ILLUSTRATION A

job. no.:	PAT–UC	figure:	1



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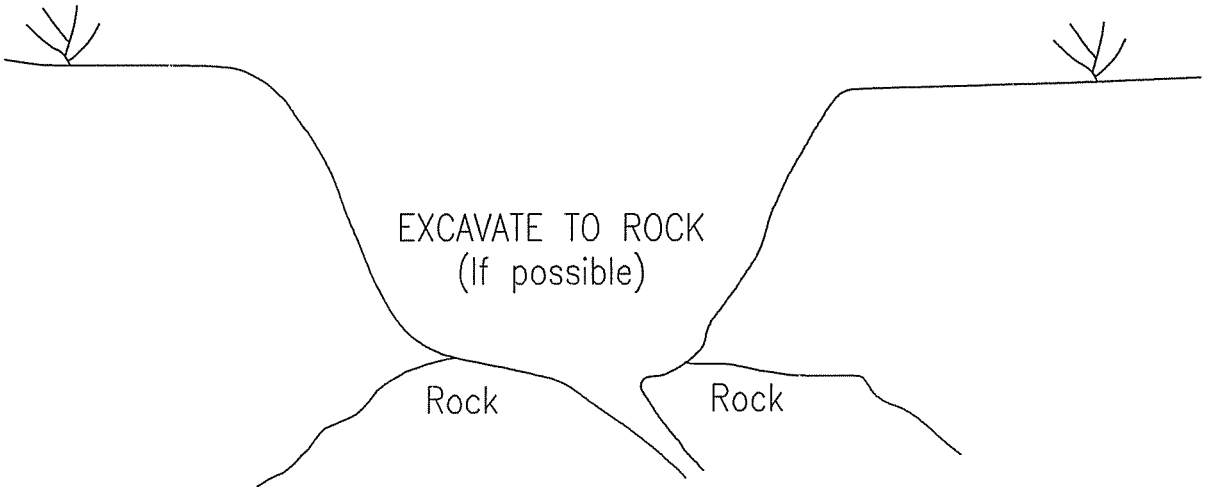
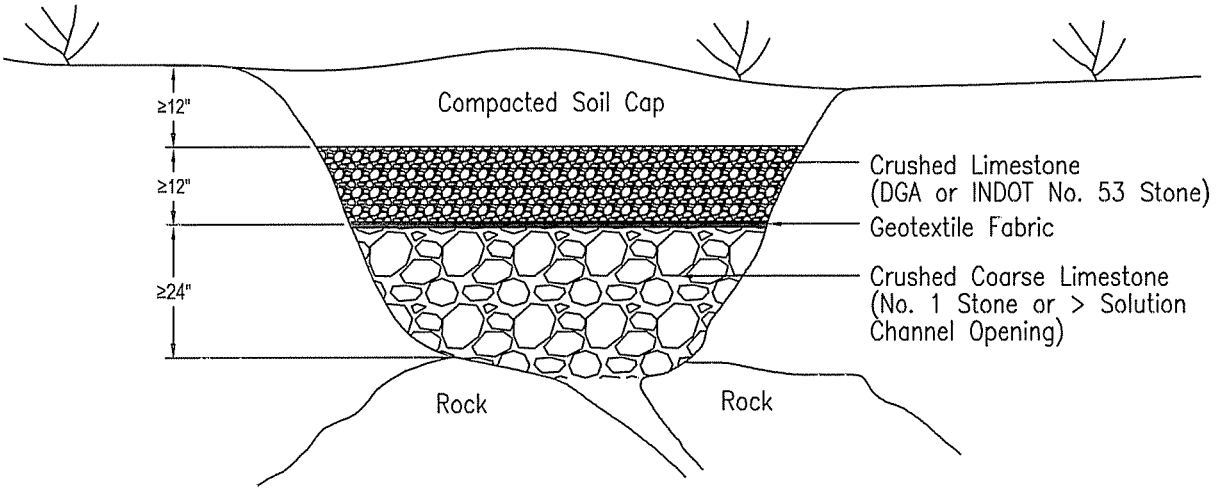
Excavation Near Existing
In Use Foundations
ILLUSTRATION B

job. no.:	PAT-UC1	figure:	1





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Treatment Method For
Deep Sink Holes
ILLUSTRATION C

PROJECT NO.	FIGURE
	1

pat-sinkhole

APPENDIX A

Site Vicinity Map

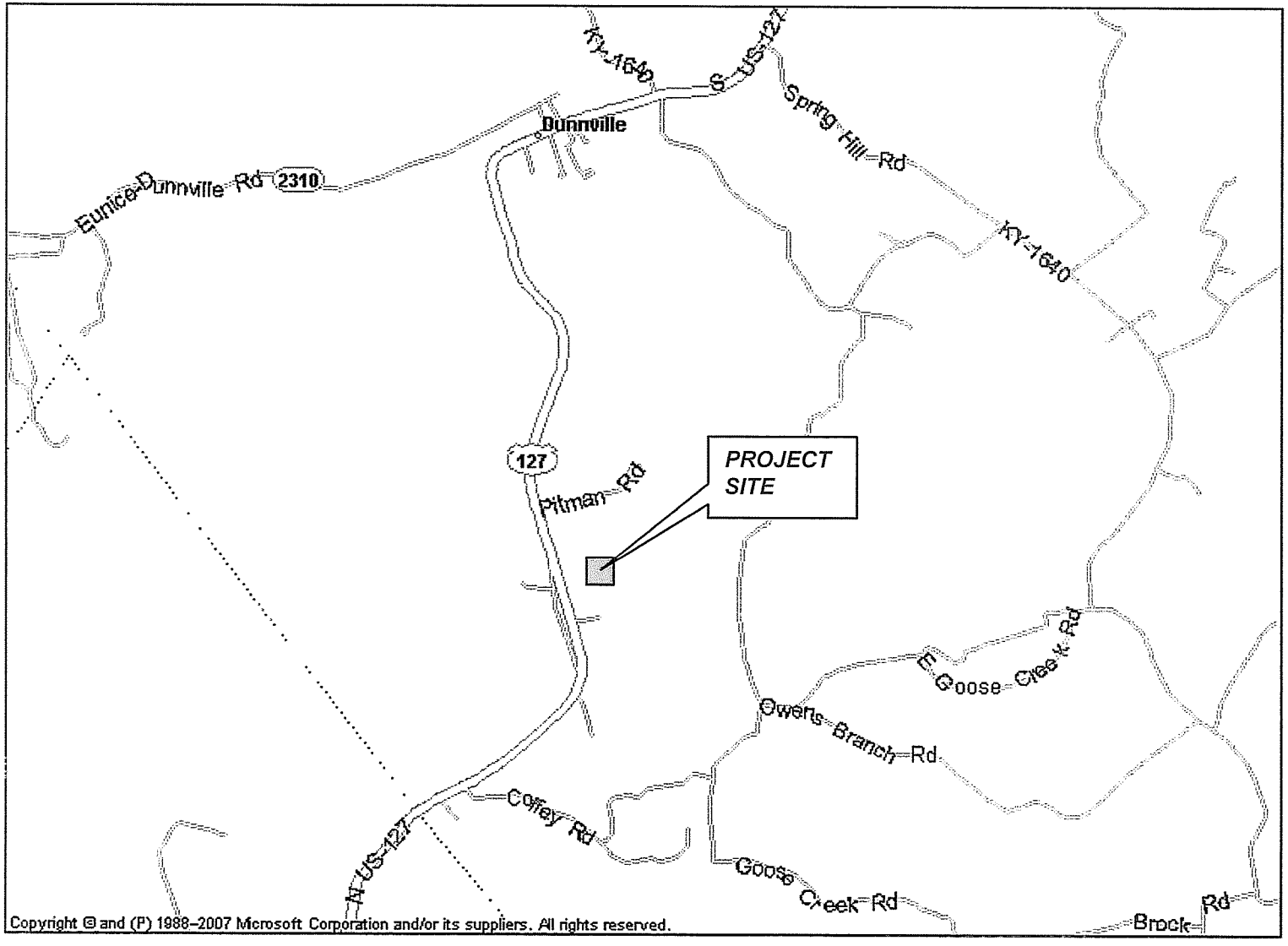
Boring / Resistivity Test Location Map

Karst Potential Map

Boring Log

Boring Log Key

Unified Soils Classification (USCS)



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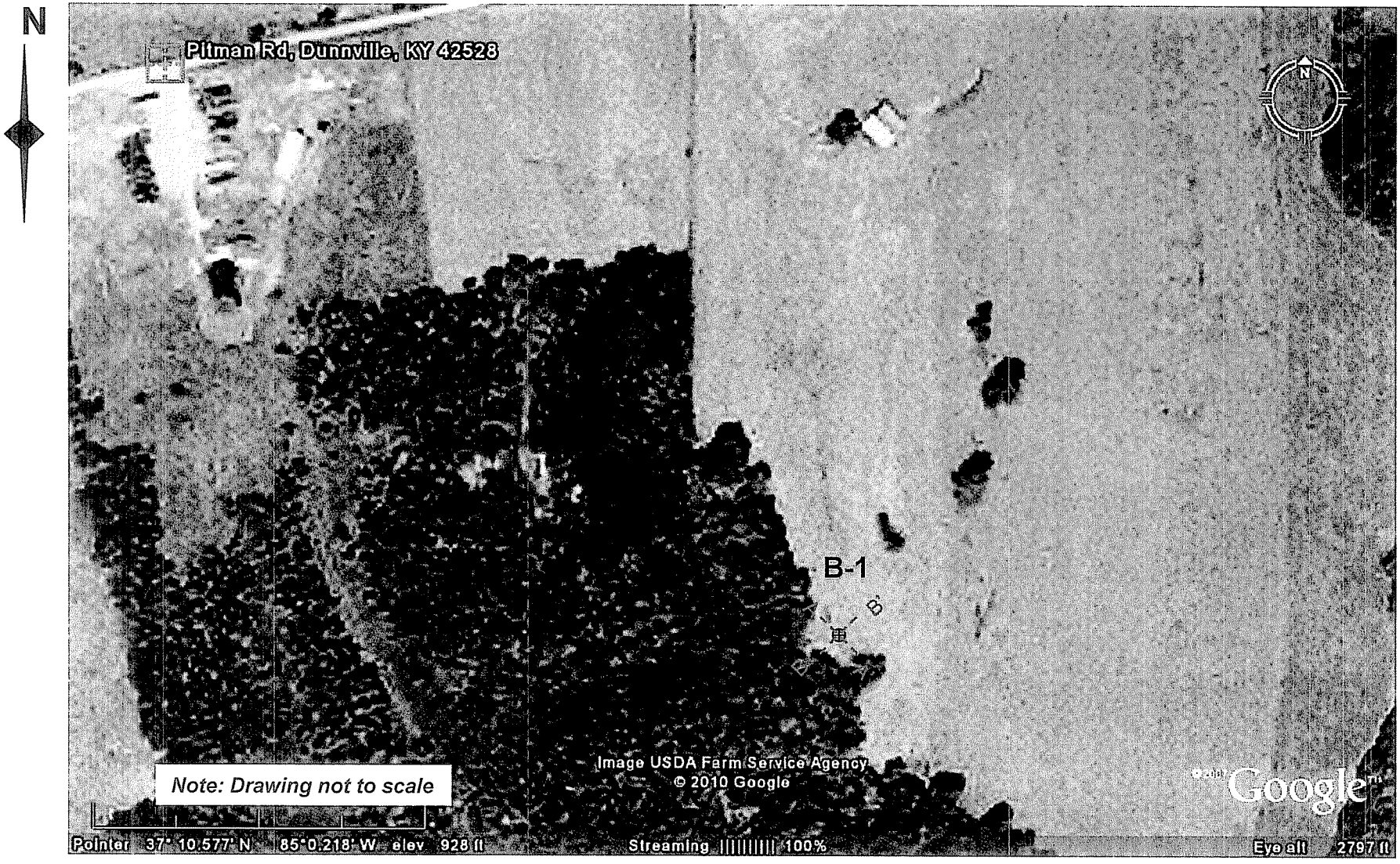
Site Vicinity Map
Dunnville Cell Tower
Dunnville, Casey County, KY

Job No. 5-09-0861

Figure 1



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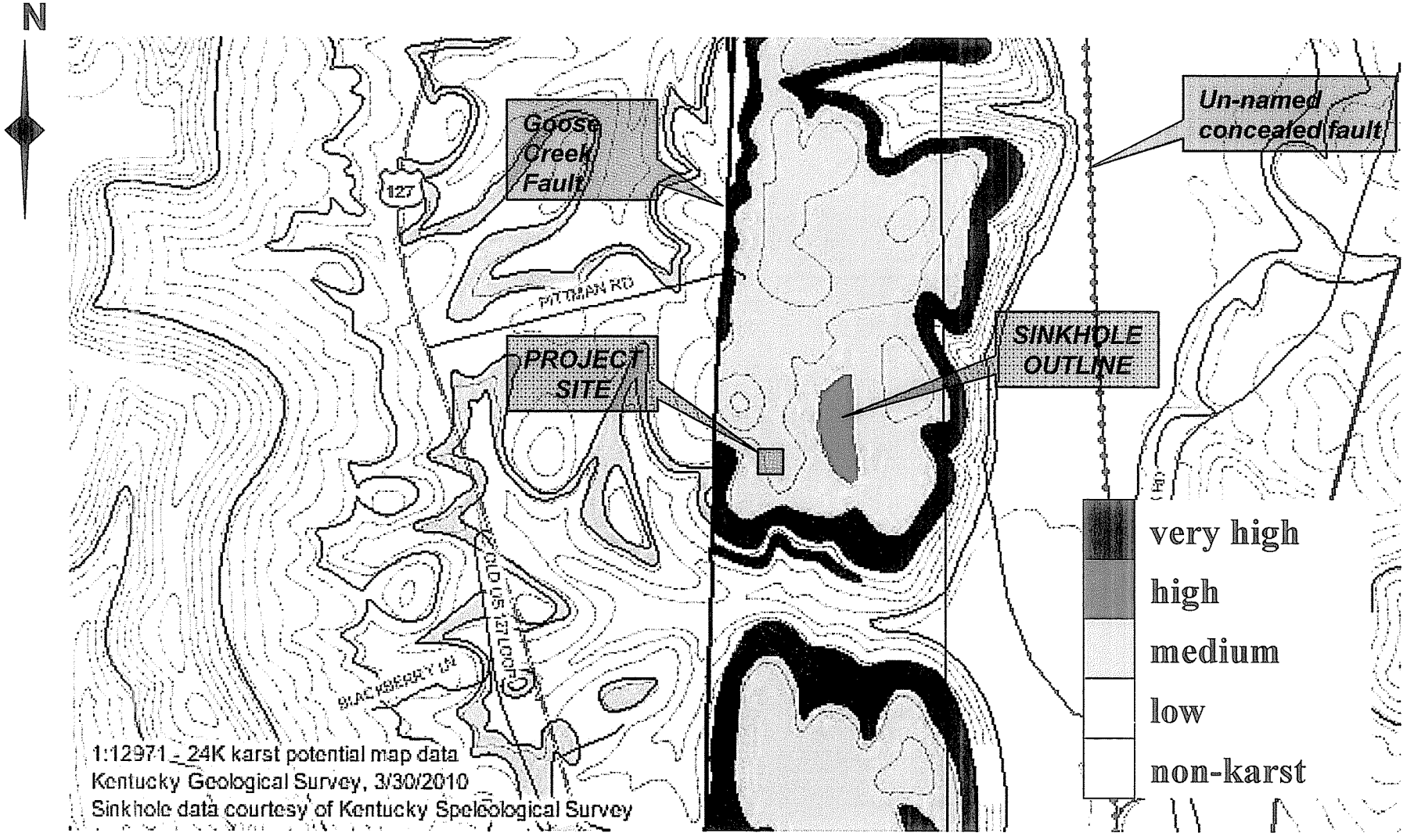
Boring / Resistivity Test Location Map

Dunnville Cell Tower
Dunnville, Casey County, KY

Job No.	5-09-0861	Figure	2

Karst Potential Units



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Karst Potential Map
Dunnville Cell Tower
Dunnville, Casey County, KY

Job No. 5-09-0861 | **Figure** 3

PATRIOT ENGINEERING and Environmental Inc.
Indianapolis, Terre Haute, Evansville, Fort Wayne, South Bend, Lafayette, Louisville KY, Dayton OH, Charleston IL

LOG OF BORING B-1

Dunville Cell Tower
Dunnville, Casey County, KY

Client Name	: Bluegrass Cellular	Driller	: M. Wells
Project Number	: 5-09-0861	Sampling	: Splitspoon
Logged By	: W. Hemp	Approximate Elevation	: 915 +/-
Start Date	: 3/15/2010	Drill Rig	: CME-550 ATV
Drilling Method	: HSA		

Water Levels
▽ During Drilling
▽ After Completion
◈ After 24 hours

Depth in Feet	Water Level	USCS	GRAPHIC	DESCRIPTION	Samples	Rec %	SPT Results	qp tsf	w %	RQD %	REMARKS
0				Topsoil (5")							
		CH		SILTY CLAY, reddish brown, moist, stiff to very stiff		100	3/4/6	2.25	26		
5						100	3/4/5	4.0	23		
		CH		CLAY, light brown, moist, very stiff, w/ black oxide nodules		72	4/8/9	3.75	26		
		ML		CLAYEY SILT, grayish brown, dry to moist, very stiff to hard		100	5/9/14	4.5	20		
10											
											Auger refusal encountered at 13.7'.
15		LS		LIMESTONE, light gray, fresh, medium to very coarse-grained, crystalline, vuggy, very hard		98				92	Rock core run No. 1 - 13.7' to 18.7'. Core sample from 14.6'-14.9' subjected to compressive strength testing. Qu = 5150 psi
20						100				59	Rock core run No. 2 - 18.7' to 23.7'
				Boring terminated at 23.7'							
25											
30											

03-31-2010 P:\Borings\K:'2009\5-09-0861\B-1.bor

BORING LOG KEY

UNIFIED SOIL CLASSIFICATION SYSTEM
FIELD CLASSIFICATION SYSTEM
FOR SOIL EXPLORATION

NON COHESIVE 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

Grain Size Terminology

Soil Fraction	Particle Size	US Standard Sieve Size
Boulders	Larger than 12"	Larger than 12"
Cobbles	3" to12"	3" to 12"
Gravel: Coarse	¾" to 3"	¾" to 3"
Small	4.76mm to ¾"	#4 to ¾"
Sand: Coarse	2.00mm to 4.76mm	#10 to #4
Medium	0.42mm to 2.00mm	#40 to #10
Fine	0.074mm to 0.42mm	#200 to #40
Silt	0.005mm to 0.074 mm	Smaller than #200
Clay	Smaller than 0.005mm	Smaller than #200

RELATIVE PROPORTIONS FOR SOILS

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

COHESIVE SOILS
(Clay, Silt and Combinations)

Consistency	Field Identification	Unconfined Compressive Strength (tons/sq. ft.)
Very Soft	Thumb will penetrate soil more than 1 inch	Less than 0.25
Soft	Thumb will penetrate soil about 1 inch	0.25 – < 0.5
Medium Stiff	Thumb will penetrate soil about ½ inch	0.5 - < 1.0
Stiff	Thumb will indent soil about ¼ inch	1.0 - < 2.0
Very Stiff	Readily indented by thumbnail	2.0 - < 4.0
Hard	Indented with difficulty by thumbnail	Over 4.0

Classification on logs are made by visual inspection.

Standard Penetration Test - Driving a 2.0" O.D., $1^{3/8}$" I.D., sampler a distance of 1.0 foot into undisturbed soil with a 140 pound hammer free falling a distance of 30.0 inches. It is customary for **Patriot** to drive the spoon 6.0 inches to seat into undisturbed soil, then perform the test. The number of hammer blows for seating the spoon and making the tests are recorded for each 6.0 inches of penetration on the drill log (Example - 6/8/9). The standard penetration test results can be obtained by adding the last two figures (i.e. 8 + 9 = 17 blows/ft.).

Strata Changes - In the column "Soil Descriptions" on the drill log the horizontal lines represent strata changes. A solid line (———) represents an actually observed change, a dashed line (- - - - -) represents an estimated change.

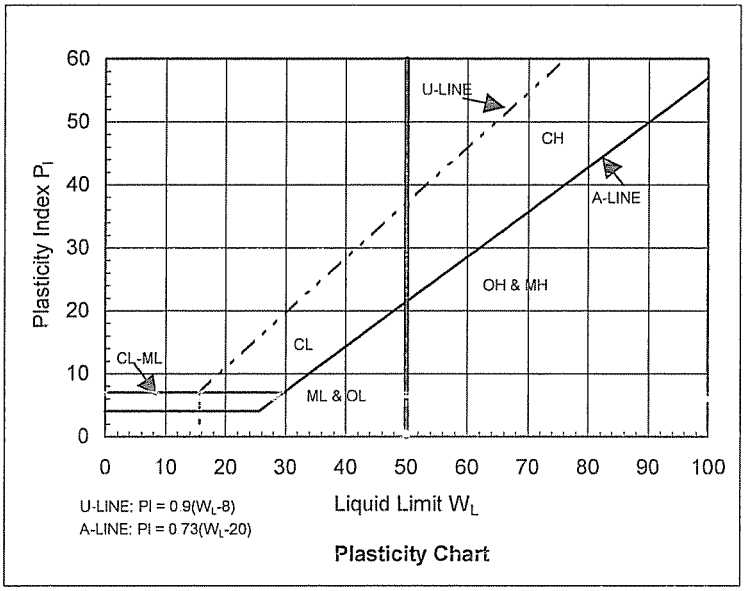
Groundwater observations were made at the times indicated. Porosity of soil strata, weather conditions, site topography, etc., may cause changes in the water levels indicated on the logs.

Groundwater symbols: ▽-observed groundwater elevation, encountered during drilling; ▽-observed groundwater elevation upon completion of boring.

PATRIOT ENGINEERING
and Environmental, Inc.

Unified Soil Classification

Major Divisions			Group Symbol	Typical Names	Classification Criteria for Coarse-Grained Soils		
Coarse-grained soils (more than half of material is larger than No. 200)	Gravels (more than half of coarse fraction is larger than No. 4 sieve size)	Clean gravels (little or no fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	$C_U \geq 4$ $1 \leq C_C \leq 3$	$C_U = \frac{D_{60}}{D_{10}}$	$C_C = \frac{D^2_{30}}{D_{10} D_{60}}$
			GP	Poorly graded gravels, gravel-sand mixtures, little or no fines	Not meeting all gradation requirements for GW ($C_U < 4$ or $1 > C_C > 3$)		
		Gravels with fines (appreciable amount of fines)	GM $\frac{d}{u}$	Silty gravels, gravel-sand-silt mixtures	Atterberg limits below A line or $P_I < 4$	Above A line with $4 < P_I < 7$ are borderline cases requiring use of dual symbols	
			GC	Clayey gravels, gravel-sand-clay mixtures	Atterberg limits above A line or $P_I > 7$		
	Sands (more than half of coarse fraction is smaller than No. 4 sieve size)	Clean sands (little or no fines)	SW	Well-graded sands, gravelly sands, little or no fines	$C_U \geq 6$ $1 \leq C_C \leq 3$	$C_U = \frac{D_{60}}{D_{10}}$	$C_C = \frac{(D_{30})^2}{D_{10} D_{60}}$
			SP	Poorly graded sands, gravelly sands, little or no fines	Not meeting all gradation requirements for SW ($C_U < 6$ or $1 > C_c > 3$)		
		Sands with fines (appreciable amount of fines)	SM $\frac{d}{u}$	Silty sands, sand-silt mixtures	Atterberg limits below A line or $P_I < 4$	Limits plotting in hatched zone with $4 \leq P_I \leq 7$ are borderline cases requiring use of dual symbols	
			SC	Clayey sands, sand-clay mixtures	Atterberg limits above A line with $P_I > 7$		
Fine-grained soils (more than half of material is smaller than No. 200)	Silt and clays (liquid limit <50)		ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity	1. Determine percentages of sand and gravel from grain size curve. 2. Depending on percentages of fines (fraction smaller than 200 sieve size), coarse-grained soils are classified as follows: Less than 5% - GW, GP, SW, SP More than 12% - GM, GC, SM, SC 5-12% - Borderline cases requiring dual symbols		
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays			
			OL	Organic silts and organic silty clays of low plasticity			
	Silts and clays (liquid limit >50)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts			
			CH	Inorganic clays or high plasticity, fat clays			
			OH	Organic clays of medium to high plasticity, organic silts			
	Highly organic soils		PT	Peat and other highly organic soils			



Plasticity Chart

APPENDIX B

General Qualifications

and

Standard Clause for Unanticipated Subsurface Conditions

GENERAL QUALIFICATIONS

of Patriot Engineering's Geotechnical Engineering Investigation

This report has been prepared at the request of our client for his use on this project. Our professional services have been performed, findings obtained, and recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied.

The scope of our services did not include any environmental assessment or investigation for the presence or absence of wetlands, hazardous or toxic materials in the soil, groundwater, or surface water within or beyond the site studied. Any statements in this report or on the test borings logs regarding vegetation types, odors or staining of soils, or other unusual conditions observed are strictly for the information of our client and the owner.

This report may not contain sufficient information for purposes of other parties or other uses. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field and laboratory data presented in this report. Should there be any significant differences in structural arrangement, loading or location of the structure, our analysis should be reviewed.

The recommendations provided herein were developed from the information obtained in the test borings, which depict subsurface conditions only at specific locations. The analysis, conclusions, and recommendations contained in our report are based on site conditions as they existed at the time of our exploration. Subsurface conditions at other locations may differ from those occurring at the specific drill sites. The nature and extent of variations between borings may not become evident until the time of construction. If, after performing on-site observations during construction and noting the characteristics of any variation, substantially different subsurface conditions from those encountered during our explorations are observed or appear to be present beneath excavations we must be advised promptly so that we can review these conditions and reconsider our recommendations where necessary.

If there is a substantial lapse of time between the submission of our report and the start of work at the site, or if conditions have changed due to natural causes or construction operations at or adjacent to the site, we urge that our report be reviewed to determine the applicability of the conclusions and recommendations considering the changed conditions and time lapse.

We urge that Patriot be retained to review those portions of the plans and specifications that pertain to earthwork and foundations to determine whether they are consistent with our recommendations. In addition, we are available to observe construction, particularly the compaction of structural backfill and preparation of the foundations, and such other field observations as may be necessary.

In order to fairly consider changed or unexpected conditions that might arise during construction, we recommend the following verbiage (Standard Clause for Unanticipated Subsurface Conditions) be included in the project contract.

STANDARD CLAUSE FOR UNANTICIPATED SUBSURFACE CONDITIONS

"The owner has had a subsurface exploration performed by a soils consultant, the results of which are contained in the consultant's report. The consultant's report presents his conclusions on the subsurface conditions based on his interpretation of the data obtained in the exploration. The contractor acknowledges that he has reviewed the consultant's report and any addenda thereto, and that his bid for earthwork operations is based on the subsurface conditions as described in that report. It is recognized that a subsurface exploration may not disclose all conditions as they actually exist and further, conditions may change, particularly groundwater conditions, between the time of a subsurface exploration and the time of earthwork operations. In recognition of these facts, this clause is entered in the contract to provide a means of equitable additional compensation for the contractor if adverse unanticipated conditions are encountered and to provide a means of rebate to the owner if the conditions are more favorable than anticipated.

At any time during construction operations that the contractor encounters conditions that are different than those anticipated by the soils consultant's report, he shall immediately (within 24 hours) bring this fact to the owner's attention. If the owner's representative on the construction site observes subsurface conditions which are different than those anticipated by the consultant's report, he shall immediately (within 24 hours) bring this fact to the contractor's attention. Once a fact of unanticipated conditions has been brought to the attention of either the owner or the contractor, and the consultant has concurred, immediate negotiations will be undertaken between the owner and the contractor to arrive at a change in contract price for additional work or reduction in work because of the unanticipated conditions. The contract agrees that the following unit prices would apply for additional or reduced work under the contract. For changed conditions for which unit prices are not provided, the additional work shall be paid for on a time and materials basis."

Another example of a changed conditions clause can be found in paper No. 4035 by Robert F. Borg, published in ASCE Construction Division Journal, No. CO2, September 1964, page 37.

SITE: DUNNVILLE
LEASE BOUNDARY & TOPOGRAPHIC SURVEY
CASEY COUNTY, KENTUCKY

BASIS OF BEARINGS

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON GPS OBSERVATIONS MADE ON FEB. 23, 2010 USING THE NATIONAL GEODETIC SURVEY SERVICE "OPUS" AND THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE 1602, NAD 1983 (CORS 1996). THIS SYSTEM IS GRID NORTH.

TOWER LOCATION INFORMATION

DESIGNATION: DUNNVILLE SITE
SITE ID# NONE
HORIZONTAL DATUM: NAD 1983 (CORS 96)
LATITUDE: 37°10'31.00" NORTH
LONGITUDE: 85°00'11.54" WEST
VERTICAL DATUM: NAVD 1988
GROUND ELEVATION: 909.60 FEET OR (277.246 METERS)
STATE PLANE COORDINATES
NORTHING: 1,947,816.73 FEET (593,694.541 METERS)
EASTING: 1,857,989.85 FEET (566,315.337 METERS)

PROPERTY OWNER INFORMATION

LANDOWNER: TIMOTHY & DORIS WILES
ADDRESS: 13335 S. US 127, PO BOX 178
DUNNVILLE, KY. 42528
CONTACT PERSON: DORIS JEAN WILES
CELL PHONE: 606-706-2765
PVA MAP # 043-00-00-005

PROJECT BENCH MARK

NORTHING: 1,947,917.14 FEET (593,725.145 METERS)
EASTING 1,857,988.91 FEET (566,315.021 METERS)
ELEVATION: 908.45 FEET (276.895 METERS)
DESCRIPTION: A 1/2" STEEL REBAR SET, WITH A RED TRAVERSE CAP, ON THE WEST SIDE OF THE ENTRANCE ROAD. SAID REBAR BEING 100.00' NORTH OF THE CENTER OF THE PROPOSED TOWER.

FLOOD PLAIN NOTE

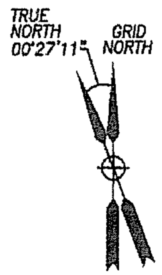
ACCORDING TO THE FEMA WEB SITE, THE FLOOD INSURANCE RATE INDEX MAP FOR THE UNINCORPORATED AREAS OF CASEY COUNTY, KENTUCKY, SHOWS THAT THE COMMUNITY PANEL IN WHICH THE SITE LIES (PANEL NO. 21045C 0325D) WAS PRINTED 07/07/2009 AND NO FLOOD HAZARD AREAS EXIST WITHIN THE SITE AREA. THEREFORE, THE SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEMA.

COURSE TABLE

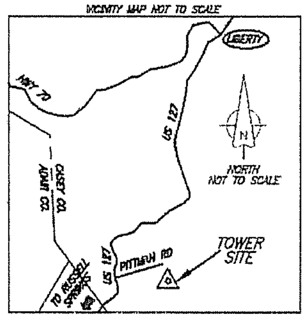
LINE	BEARING	DISTANCE
L1	[illegible]	[illegible]
L2	[illegible]	[illegible]
L3	[illegible]	[illegible]
L4	[illegible]	[illegible]
L5	[illegible]	[illegible]
L6	[illegible]	[illegible]
L7	[illegible]	[illegible]
L8	[illegible]	[illegible]
L9	[illegible]	[illegible]
L10	[illegible]	[illegible]
L11	[illegible]	[illegible]
L12	[illegible]	[illegible]
L13	[illegible]	[illegible]
L14	[illegible]	[illegible]

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	70.00'	19.10'	19.04'	S 04°45'12" W	15°37'48"
C2	50.00'	13.64'	13.60'	N 04°45'12" E	15°37'48"



VICINITY MAP



DIRECTIONS TO SITE

BEGINNING AT THE INTERSECTION OF KY 49 & KY 70 AT THE COURT HOUSE SQUARE IN LIBERTY, KY. TRAVEL SOUTH ON KY 70 FOR 0.5 MILES. TURN RIGHT ON US 127. TRAVEL 12.4 MILES TO PITTMAN ROAD. TURN LEFT ON PITTMAN ROAD. TRAVEL 0.2 MILES TO THE "Y" IN THE ROAD, TAKING THE RIGHT SIDE OF THE "Y" AND TRAVELING APPROX. 0.2 MILES ALONG THE PROPOSED GRAVEL ACCESS ROAD TO THE TOWER SITE.

SURVEYOR'S NOTES

1. THIS SURVEY IS SUBJECT TO A STATEMENT OF FACTS WHICH MAY BE DISCLOSED BY AN ABSTRACT OF TITLE OR A TITLE COMMITMENT POLICY. THIS DOCUMENTATION WAS NOT PROVIDED BY THE CLIENT.

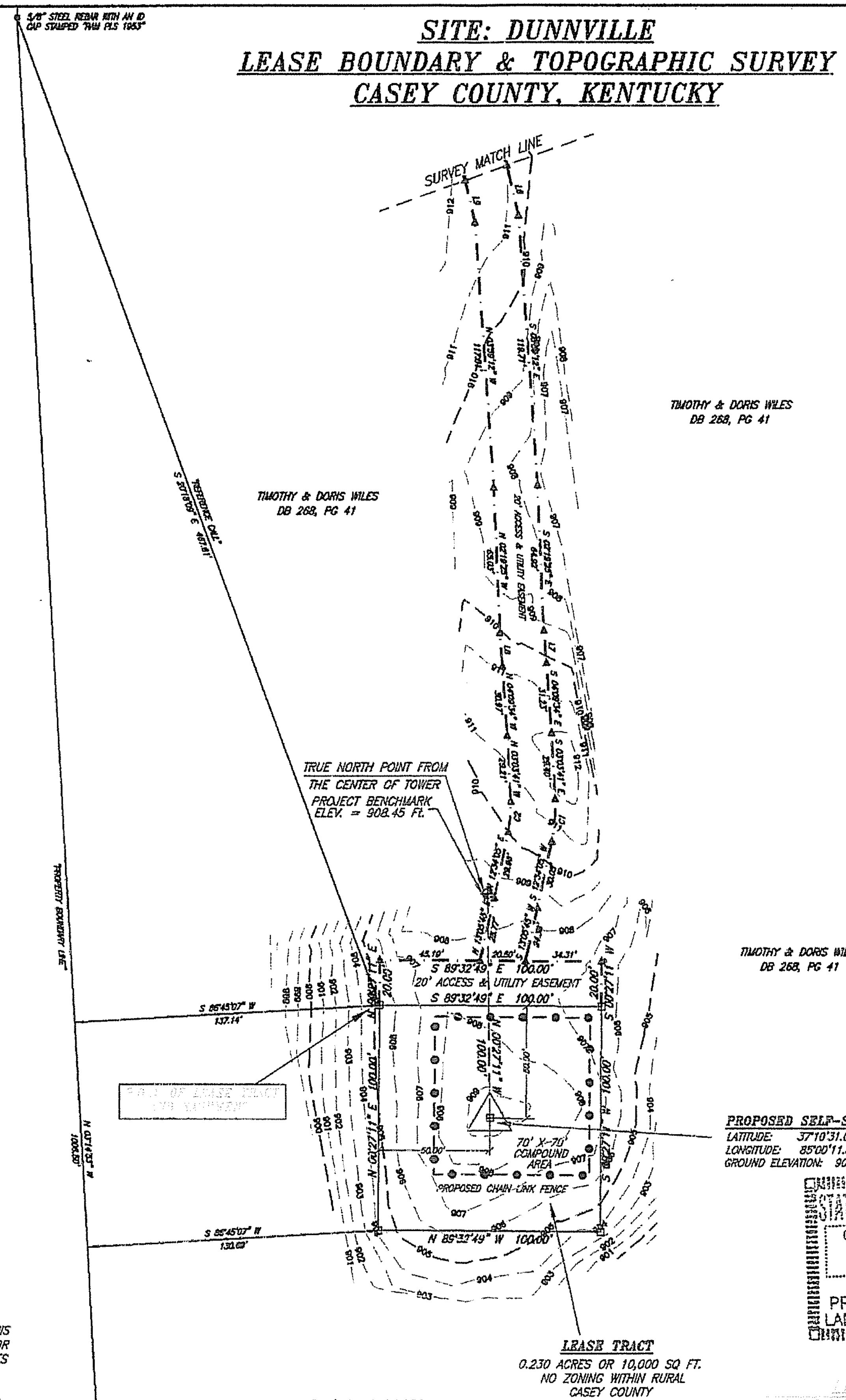
2. NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.

3. THE UTILITIES SHOWN ON THIS PLAT MAY OR MAY NOT REPRESENT ALL THE UTILITIES LOCATED ON THE SUBJECT SITE. THE PRESENCE OF THE EXISTING UTILITIES SHOWN WAS DETERMINED BY A VISUAL INSPECTION OF THE PROPERTY SURFACE. NO UTILITY LOCATE WAS CALLED IN PRIOR TO THIS SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY UTILITIES PRESENT PRIOR TO CONSTRUCTION.

4. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAT WAS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL THE TOPOGRAPHIC FEATURES LOCATED ON THE SUBJECT PROPERTY.

5. THE PROPOSED LOCATION OF THE DUNNVILLE SITE WILL BE LOCATED OUTSIDE OF AN INCORPORATED CITY.

6. ACCORDING TO MR. RONALD WRIGHT, COUNTY JUDGE EXECUTIVE OF CASEY COUNTY, NO LOCAL PLANNING UNIT EXISTS WHICH HAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 606-787-6154 FOR CONFIRMATION.



LEASE BOUNDARY & EASEMENT DESCRIPTION

A tract of land this is located approx. 1150' south of the "Y" at the end of Pittman Road and approx. 0.2 miles east of the intersection of US 127 and Pittman Road in Casey County, Kentucky and being further described as follows:

UNLESS stated otherwise, any monument referred to herein as a "set rebar" is a ½" diameter rebar pin, twenty four inches (24") in length, with a yellow plastic survey cap stamped "G.S. Turner PLS 2153"

COMMENCING AT a steel pipe found without an id cap approx. 51' east of the "Y" at the end of Pittman Road, and being the northeast corner of the Timothy Wiles tract, as recorded in the office of the County Clerk of Casey County, Kentucky.
THENCE with the east line of T. Wiles S 00°31'07" W 86.33' to an unmarked point; said point being the northwest corner of the parent tract;
THENCE continuing with T. Wiles S 00°31'07" W 455.27' to an unmarked point; said point being the northeast corner of Greg & Cecilia Neat & Scott & Lisa Smith;
THENCE continuing with the lines of Neat & Smith S 01°15'07" W 164.10' to an existing 5/8? steel rebar with an id cap stamped "RAM PLS 1953"; said rebar being in the east line of Neat & Smith;
THENCE leaving the lines of Neat & Smith S 20°18'09" E 467.61' to a set rebar at the northwest corner of the Lease Tract & BEING THE TRUE POINT OF BEGINNING; said rebar being approx. 137' east of the parent tract line;
THENCE S 89°32'49" E 100.00' to a set rebar;
THENCE S 00°27'11" W 100.00' to a set rebar;
THENCE N 89°32'49" W 100.00' to a set rebar;
THENCE N 00°27'11" E 100.00' to the point of beginning and containing 0.230 acres (10,000 sq. ft.), more or less.

TOGETHER WITH a 20' access and utility easement from the above described 0.230 acre lease tract to Pittman Road; said easement being described as follows:
BEGINNING at a set rebar at the northwest corner of the 0.230 acre lease tract.
THENCE leaving the 0.230 acre lease tract and following the west side of the easement for the following 33 calls to unmarked meander points unless otherwise noted: N 00°27'11" E 20.00';
Continuing S 89°32'49" E 45.19'; Continuing N 13°05'45" E 28.77'; Continuing N 12°34'05" E 29.96';
Continuing with a curve turning to the left with an arc length of 13.64' with a radius of 50.00' with a chord bearing of N 04°45'12" E with a chord length of 13.60';
Continuing N 03°03'41" W 29.21'; Continuing N 04°09'34" W 30.97'; Continuing N 04°34'39" W 14.86';
Continuing N 02°19'25" W 65.03'; Continuing N 03°59'12" W 117.81'; Continuing N 13°10'14" W 19.11';
Continuing N 25°27'25" W 13.83'; Continuing N 39°35'03" W 29.11'; Continuing N 46°48'31" W 27.93' to a set pin; Continuing N 42°43'11" W 29.13'; Continuing N 36°57'49" W 15.96'; Continuing N 27°37'40" W 19.91';
Continuing N 17°01'52" W 24.12'; Continuing N 04°55'34" W 23.51'; Continuing N 04°01'42" E 48.29';
Continuing N 09°03'39" E 170.08'; Continuing N 07°30'24" E 23.03'; Continuing N 07°33'13" E 28.54';
Continuing N 01°36'13" E 23.38'; Continuing N 12°56'59" W 22.14'; Continuing N 22°27'23" W 30.56';
Continuing N 24°23'04" W 30.52'; Continuing N 24°44'37" W 29.70'; Continuing N 25°45'22" W 30.74';
Continuing N 29°14'41" W 32.06'; Continuing N 31°42'03" W 30.29'; Continuing N 33°09'34" W 30.90';
Continuing N 28°36'42" W 43.37' to an unmarked point at the northwest corner of the 20' access & utility easement; said point being on the south side of Pittman Road;
THENCE with the south side of Pittman Road N 84°19'35" E 21.73' to an unmarked point; said point being referenced S 23°14'11" E 90.02' from an existing steel pipe without an id cap approx. 51' east of the "Y" at the end of Pittman Road;
THENCE leaving Pittman Road and following the east side of the easement for the following 33 calls to unmarked meander points unless otherwise noted: S 28°36'42" E 34.11'; Continuing S 33°09'34" E 30.36';
Continuing S 31°42'03" E 30.97'; Continuing S 29°14'41" E 33.10'; Continuing S 25°45'22" E 31.53';
Continuing S 24°44'37" E 29.94'; Continuing S 24°23'04" E 30.91'; Continuing S 22°27'23" E 32.56';
Continuing S 12°56'59" E 26.35'; Continuing S 01°36'13" W 26.97'; Continuing S 07°33'13" W 29.58';
Continuing S 07°30'24" W 23.28'; Continuing S 09°03'39" W 169.47'; Continuing S 04°01'42" W 45.85';
Continuing S 04°55'34" E 19.82'; Continuing S 17°01'52" E 20.14'; Continuing S 27°37'40" E 16.42';
Continuing S 36°57'49" E 13.32'; Continuing S 42°43'11" E 27.42' to an unmarked point; said point being referenced N 45°15'09" E 20.01' from a set rebar on the west side of the easement;
Continuing S 46°46'31" E 28.48'; Continuing S 39°35'03" E 32.84'; Continuing S 25°27'25" E 18.48';
Continuing S 13°10'14" E 22.87'; Continuing S 03°59'12" E 119.71'; Continuing S 02°19'25" E 64.92';
Continuing S 04°34'39" E 14.54'; Continuing S 04°09'34" E 31.23'; Continuing S 03°03'41" E 29.40';
Continuing with a curve turning to the right with an arc length of 19.10' with a radius of 70.00' with a chord bearing of S 04°45'12" W with a chord length of 19.04';
Continuing S 12°34'05" W 30.05'; Continuing S 13°05'45" W 24.38'; Continuing S 89°32'49" E 34.31';
Continuing S 00°27'11" W 20.00' to a set pin at the northeast corner of the 0.230 acre lease tract;
THENCE with the north line of the 0.230 acre lease tract N 89°32'49" W 100.00' to the point of beginning;

The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 1983, as determined by G.P.S. observations made on Feb 23, 2010 using the National Geodetic Survey Program "OPUS". These descriptions are based upon a survey completed by New Banks, Inc. DBA Turner Engineering and Land Surveying and certified by Glenn S. Turner, PLS 2153, on March 1, 2010. This survey is hereby referenced and made a part of these descriptions.

SOURCE OF TITLE: Being a portion of and lying entirely within the land described in deed to Timothy & Doris Wiles in Deed Book 268, Page 41 in the office of the county clerk of Casey County, Kentucky.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAT WAS DONE BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDESHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE WAS 1:39,300 AND WAS NOT ADJUSTED. THE BEARINGS AND DISTANCES SHOWN ON THIS PLAT ARE BASED ON SAID UNADJUSTED TRAVERSE. THE SURVEY HEREON IS A CLASS "B" RURAL SURVEY AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.
BASIS OF BEARINGS: KY SOUTH ZONE 1602

I FURTHER CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY DIRECTION; THAT ALL MONUMENTS INDICATED HEREON DO ACTUALLY EXIST AND THAT THEIR LOCATIONS, SIZES, AND MATERIALS ARE CORRECTLY INDICATED AND THAT THE INFORMATION SHOWN HEREON IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

4/12/10
DATE OF SIGNATURE

GLENN S TURNER, LICENSED PROFESSIONAL LAND SURVEYOR #2153

STATE OF KENTUCKY
GLENN S. TURNER
2153
LICENSED PROFESSIONAL LAND SURVEYOR

03/01/2010
DATE OF FIELD SURVEY

04/12/2010
DATE OF FINAL PLAT

REDUCED COPY

LEGEND

- □ 1/2" X 24" SET REBAR WITH AN ID CAP STAMPED "G.S. TURNER PLS 2153"
- ● EXISTING STEEL PIPE WITHOUT AN ID CAP
- ▲ UNMARKED RIGHT OF WAY POINTS
- UTILITY POLES
- LEASE BOUNDARY
- OTHER BOUNDARIES
- EASEMENT BOUNDARY
- PROPOSED CHAIN LINK FENCE
- BUILDING SETBACK LINES
- OVERHEAD ELECTRIC LINE
- TELEPHONE PEDESTAL

30' 0' 15' 30' 60' 90'
1 INCH = 30 FEET
CONTOUR INTERVAL = 1 Foot

~ REVISIONS ~

NO.	DATE	DESCRIPTION	BY
1			

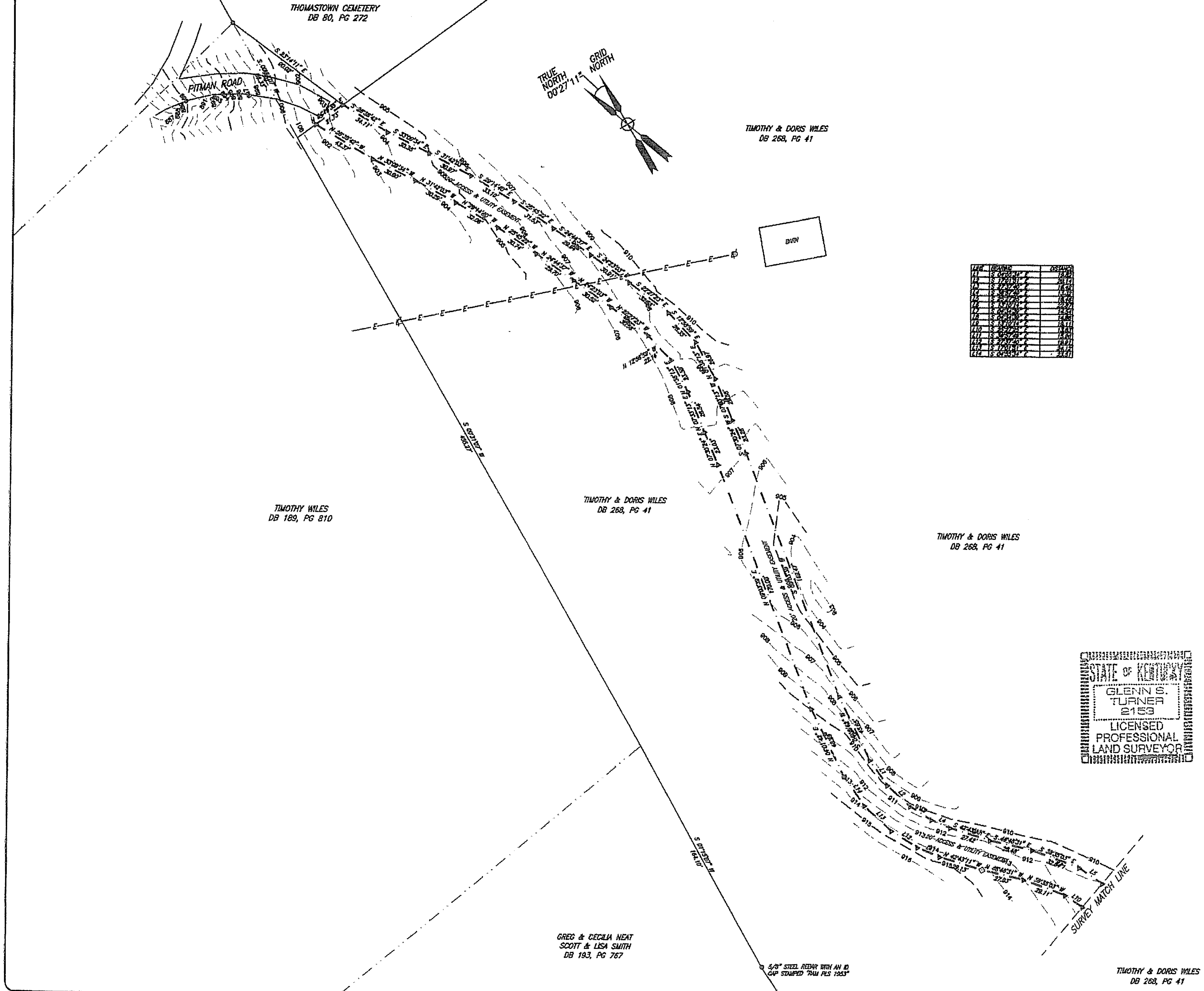
TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
PH. (270) 737-3232 FAX (270) 769-6497

LEASE BOUNDARY SURVEY
350 PITTMAN ROAD
DUNNVILLE, KY 42528

PREPARED FOR:
BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701

DRWN BY: J LYNCH	CHKD BY: G TURNER
DATE: 04/12/2010	AREA:
SCALE: 1"=30'	BILL NO: 10-DUNNVILLE
DRAWING: G:\Drawings\BGCELL\2009\DUNNVILLE SITE	
PVA #: 043-00-00-005	
SHEET 1 OF 2	

SITE: DUNNVILLE
LEASE BOUNDARY & TOPOGRAPHIC SURVEY
CASEY COUNTY, KENTUCKY



LINE	BEARING	DISTANCE
L1	[illegible]	[illegible]
L2	[illegible]	[illegible]
L3	[illegible]	[illegible]
L4	[illegible]	[illegible]
L5	[illegible]	[illegible]
L6	[illegible]	[illegible]
L7	[illegible]	[illegible]
L8	[illegible]	[illegible]
L9	[illegible]	[illegible]
L10	[illegible]	[illegible]
L11	[illegible]	[illegible]
L12	[illegible]	[illegible]
L13	[illegible]	[illegible]
L14	[illegible]	[illegible]

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAT WAS DONE BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDESHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE WAS 1:39,300 AND WAS NOT ADJUSTED. THE BEARINGS AND DISTANCES SHOWN ON THIS PLAT ARE BASED ON SAID UNADJUSTED TRAVERSE. THE SURVEY HEREON IS A CLASS "B" RURAL SURVEY AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.
BASIS OF BEARINGS: KY SOUTH ZONE 1602

I FURTHER CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR UNDER MY DIRECTION; THAT ALL MONUMENTS INDICATED HEREON DO ACTUALLY EXIST AND THAT THEIR LOCATIONS, SIZES, AND MATERIALS ARE CORRECTLY INDICATED AND THAT THE INFORMATION SHOWN HEREON IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

4/12/10
DATE OF SIGNATURE

GLENN S TURNER, LICENSED PROFESSIONAL LAND SURVEYOR #2153

STATE OF KENTUCKY
GLENN S. TURNER
2153
LICENSED PROFESSIONAL LAND SURVEYOR

03/01/2010
DATE OF FIELD SURVEY

04/12/2010
DATE OF FINAL PLAT

REDUCED COPY

- 1/2" X 24" SET REBAR WITH AN ID CAP STAMPED "G.S. TURNER PLS 2153"
- EXISTING STEEL PIPE WITHOUT AN ID CAP
- UNMARKED RIGHT OF WAY POINTS
- UTILITY POLES
- LEASE BOUNDARY
- OTHER BOUNDARIES
- EASEMENT BOUNDARY
- PROPOSED CHAIN LINK FENCE
- BUILDING SETBACK LINES
- OVERHEAD ELECTRIC LINE
- TELEPHONE PEDESTAL

30' 0' 15' 30' 60' 90'
1 INCH = 30 FEET
CONTOUR INTERVAL = 1 Foot

NO.	DATE	REVISIONS DESCRIPTION	BY
1			

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
6735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
PH. (270) 737-3232 FAX (270) 769-5497

LEASE BOUNDARY SURVEY
350 PITTMAN ROAD
DUNNVILLE, KY 42528

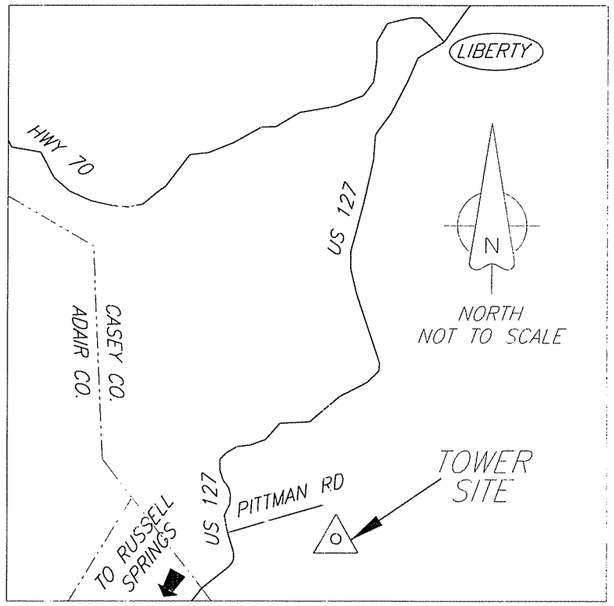
PREPARED FOR:
BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701

DRWN BY: J LYNCH	CHKD BY: G TURNER
DATE: 04/12/2010	AREA:
SCALE: 1"=30'	BILL NO: 10-DUNNVILLE
DRAWING: C:\Drawings\BGCELL\2009\DUNNVILLE SITE	
PVA #: 043-00-00-005	
SHEET 2 OF 2	

BLUEGRASS CELLULAR

VICINITY MAP

VICINITY MAP NOT TO SCALE



DIRECTIONS TO SITE

BEGINNING AT THE INTERSECTION OF KY 49 & KY 70 AT THE COURT HOUSE SQUARE IN LIBERTY, KY TRAVEL SOUTH ON KY 70 FOR 0 5 MILES TURN RIGHT ON US 127 TRAVEL 12 4 MILES TO PITTMAN ROAD TURN LEFT ON PITTMAN ROAD TRAVEL 0 2 MILES TO THE "Y" IN THE ROAD, TAKING THE RIGHT SIDE OF THE "Y" AND TRAVELING APPROX 0 2 MILES ALONG THE PROPOSED GRAVEL ACCESS ROAD TO THE TOWER SITE

SITE DATA

PROPERTY OWNER.	TIMOTHY & DORIS WILES 13335 S US 127, PO BOX 178 DUNNVILLE, KY 42528 606-706-2765 (CELL)	TOWER OWNER.	BLUEGRASS CELLULAR (270) 769-0339
		POWER COMPANY.	TAYLOR CO RECC (270) 465-4101
BLUEGRASS PROJECT SUPERVISOR.	JEFF BREWER (270) 734-3436	TELEPHONE COMPANY	WINDSTREAM (866) 445-3402

SITE NAME: DUNNVILLE SITE

911 ADDRESS: 350 PITTMAN ROAD
DUNNVILLE, KY 42528

COUNTY: CASEY CO.

TOWER LATITUDE & LONGITUDE

N 37°10'31.00" W 85°00'11.54"

APPROVAL SIGNATURES

BLUEGRASS CELLULAR PROJECT SUPERVISOR: _____
DATE: _____
CITY REPRESENTATIVE: _____
TITLE: _____
DATE: _____
PROPERTY OWNER/OWNERS: _____
_____
DATE: _____
TOWER OWNER/OWNERS: _____
_____
DATE: _____

SHEET INDEX

SHEET NO.	DESCRIPTION	REVISIONS
TITLE SHEET	TITLE SHEET	
SURVEY 1	SURVEY	
SURVEY 2	SURVEY	
A-1	SITE PLAN	
A-2	FENCE DETAILS	
ANTENNA DETAILS 1	ANT. SPECS/TOWER ELEV.	
ANTENNA DETAILS 2	ANTENNA DETAILS 2	
E-1	ELECTRICAL SITE PLAN	
E-2	ELECTRICAL DETAILS	
LYNCOLE	LYNCOLE GROUNDING	
E-3	ELEC. PLAN- GROUNDING	
E-4	GROUNDING DETAILS	
S-1	FOUNDATION DETAILS	
GENERATOR DETAIL	GENERATOR DETAIL	
GENERAL NOTES	GENERAL NOTES	

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
P (270) 737-3232 F (270) 769-5497

~ REVISIONS ~

NO.	DATE	DESCRIPTION	BY

BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

DRAWN BY: JLYNCH LSIT
DATE 05/20/10 SCALE 1"=100'

SHEET NUMBER
TITLE SHEET

SITE: DUNNVILLE
LEASE BOUNDARY & TOPOGRAPHIC SURVEY
CASEY COUNTY, KENTUCKY

BASIS OF BEARINGS

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON GPS OBSERVATIONS MADE ON FEB. 23, 2010 USING THE NATIONAL GEODETIC SURVEY SERVICE "OPUS" AND THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE 1602, NAD 1983 (CORS 1996) THIS SYSTEM IS GRID NORTH.

TOWER LOCATION INFORMATION

DESIGNATION: DUNNVILLE SITE
SITE ID# NONE
HORIZONTAL DATUM. NAD 1983 (CORS 96)
LATITUDE 37°10'31.00" NORTH
LONGITUDE 85°00'11.54" WEST
VERTICAL DATUM. NAVD 1988
GROUND ELEVATION. 909.60 FEET OR (277.246 METERS)

STATE PLANE COORDINATES.
NORTHING 1,947,816.73 FEET (593,694.541 METERS)
EASTING 1,857,869.95 FEET (566,315.337 METERS)

PROPERTY OWNER INFORMATION

LANDOWNER: TIMOTHY & DORIS WILES
ADDRESS 1,333.15 S. US 127, PO BOX 178 DUNNVILLE, KY. 42528
CONTACT PERSON: DORIS JEAN WILES
CELL PHONE 606-706-2765
PVA MAP # 043-00-00-005

PROJECT BENCH MARK

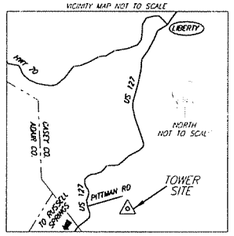
NORTHING 1,947,917.14 FEET (593,725.145 METERS)
EASTING 1,857,888.91 FEET (566,315.021 METERS)
ELEVATION. 908.45 FEET (276.856 METERS)
DESCRIPTION: A 1/2" STEEL REBAR SET, WITH A RED TRAVERSE CAP, ON THE WEST SIDE OF THE ENTRANCE ROAD. SAID REBAR BEING 100.00' NORTH OF THE CENTER OF THE PROPOSED TOWER.

100 YEAR FLOOD PLAIN

ACCORDING TO THE FEMA WEB SITE, THE FLOOD INSURANCE RATE INDEX MAP FOR THE UNINCORPORATED AREAS OF CASEY COUNTY, KENTUCKY, SHOWS THAT THE COMMUNITY PANEL IN WHICH THE SITE LIES (PANEL NO. 21045C 0325D) WAS PRINTED 07/07/2009 AND NO FLOOD HAZARD AREAS EXIST WITHIN THE SITE AREA. THEREFORE, THE SITE DOES NOT LIE WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEMA

LOCATION MAP

VICINITY MAP NOT TO SCALE



DIRECTIONS TO SITE

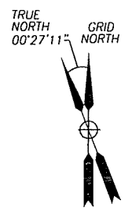
BEGINNING AT THE INTERSECTION OF KY 49 & KY 70 AT THE COURT HOUSE SQUARE IN LIBERTY, KY. TRAVEL SOUTH ON KY 70 FOR 0.5 MILES. TURN RIGHT ON US 127. TRAVEL 12.4 MILES TO PITTMAN ROAD. TURN LEFT ON PITTMAN ROAD. TRAVEL 0.2 MILES TO THE "Y" IN THE ROAD, TAKING THE RIGHT SIDE OF THE "Y" AND TRAVELING APPROX. 0.2 MILES ALONG THE PROPOSED GRAVEL ACCESS ROAD TO THE TOWER SITE.

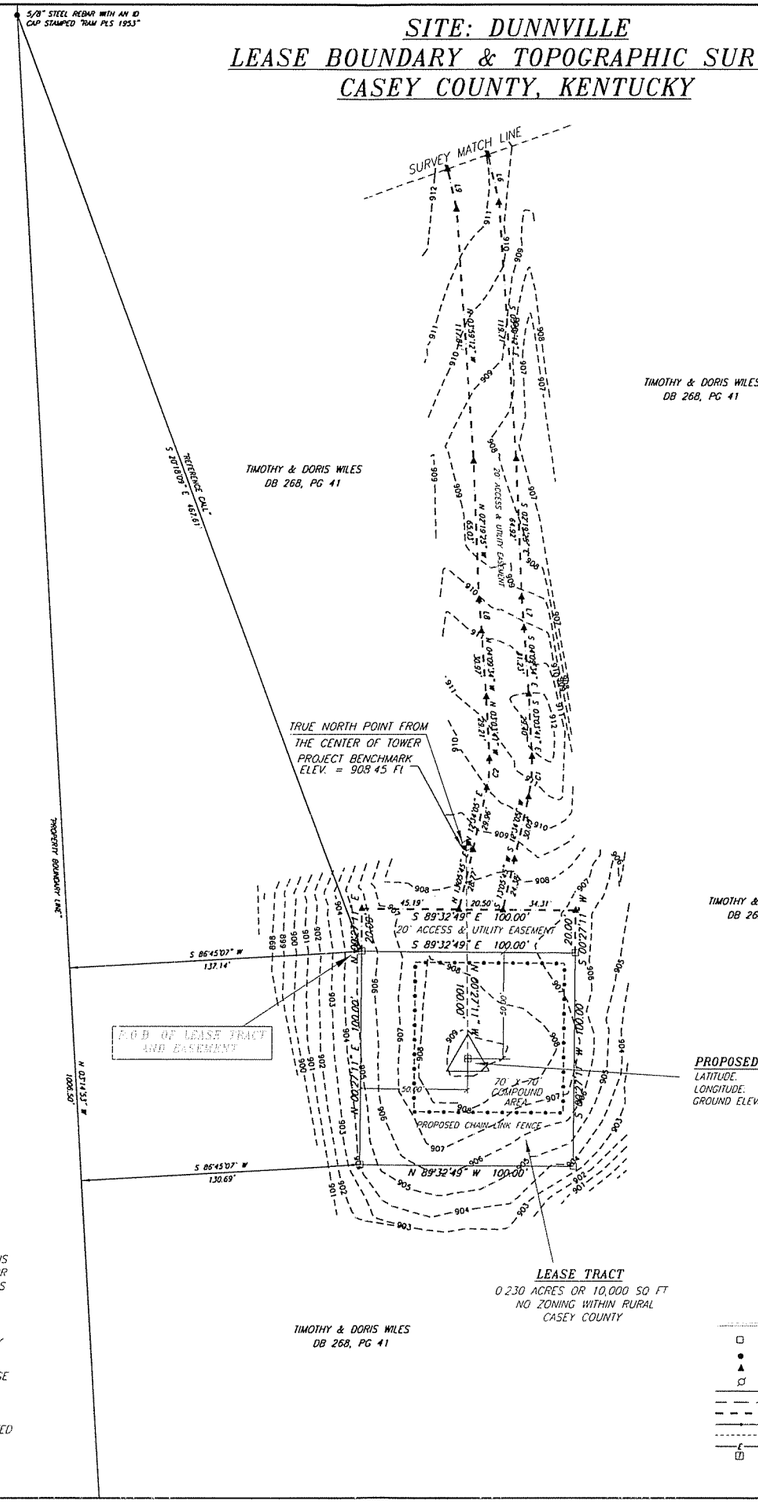
COURSE TABLE

LINE	BEARING	DISTANCE
L1	S 04°55'34" E	19.82
L2	S 17°01'52" E	20.14
L3	S 27°37'40" E	16.42
L4	S 36°57'49" E	13.32
L5	S 29°37'25" E	18.46
L6	S 13°10'14" E	22.87
L7	S 04°34'39" E	14.54
L8	S 04°34'39" E	14.85
L9	S 13°10'14" E	19.11
L10	S 25°27'25" E	13.83
L11	S 36°57'49" E	15.96
L12	S 27°37'40" E	19.91
L13	S 17°01'52" E	24.12
L14	S 04°55'34" E	21.51

CURVE TABLE

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	70.00'	19.10'	19.04'	S 04°43'12" W	15°37'46"
C2	50.00'	13.64'	13.60'	N 04°45'12" E	15°37'46"





PROPOSED SELF-SUPPORT TOWER
LATITUDE. 37°10'31.00" NORTH (NAD 1983)
LONGITUDE. 85°00'11.54" WEST (NAD 1983)
GROUND ELEVATION. 909.60 ft or (277.246 m) (NAVD 1988)

LEASE TRACT
0.230 ACRES OR 10,000 SQ FT
NO ZONING WITHIN RURAL CASEY COUNTY

LEGEND

- 1/2" x 24" SET REBAR WITH AN ID CAP STAMPED "G.S. TURNER PLS 2153"
- EXISTING STEEL PIPE WITHOUT AN ID CAP
- UNMARKED RIGHT OF WAY POINTS
- UTILITY POLES
- LEASE BOUNDARY
- OTHER BOUNDARIES
- EASEMENT BOUNDARY
- PROPOSED CHAIN LINK FENCE
- BUILDING SETBACK LINES
- OVERHEAD ELECTRIC LINE
- TELEPHONE PEDESTAL

LEASE BOUNDARY & EASEMENT DESCRIPTION

A tract of land this is located approx. 1150' south of the "Y" at the end of Pittman Road and approx. 0.2 miles east of the intersection of US 127 and Pittman Road in Casey County, Kentucky and being further described as follows

UNLESS stated otherwise, any monument referred to herein as a "set rebar" is a ½" diameter rebar pin, twenty four inches (24") in length, with a yellow plastic survey cap stamped "G.S. Turner PLS 2153"

COMMENCING AT a steel pipe found without an id cap approx. 51' east of the "Y" at the end of Pittman Road, and being the northeast corner of the Timothy Wiles tract, as recorded in the office of the County Clerk of Casey County, Kentucky
THENCE with the east line of T. Wiles S 00°31'07" W 86.33' to an unmarked point, said point being the northwest corner of the parent tract,
THENCE continuing with T. Wiles S 00°31'07" W 455.27' to an unmarked point, said point being the northeast corner of Greg & Cecilia Neat & Scott & Lisa Smith,
THENCE continuing with the lines of Neat & Smith S 01°15'07" W 164.10' to an existing 5/8" steel rebar with an id cap stamped "RAM PLS 1953", said rebar being in the east line of Neat & Smith,
THENCE leaving the lines of Neat & Smith S 20°18'09" E 467.61' to a set rebar at the northwest corner of the Lease Tract & BEING THE TRUE POINT OF BEGINNING, said rebar being approx. 137' east of the parent tract line,
THENCE S 89°32'49" E 100.00' to a set rebar,
THENCE S 00°27'11" W 100.00' to a set rebar,
THENCE N 89°32'49" W 100.00' to a set rebar,
THENCE N 00°27'11" E 100.00' to the point of beginning and containing 0.230 acres (10,000 sq. ft.), more or less

TOGETHER WITH a 20' access and utility easement from the above described 0.230 acre lease tract to Pittman Road, said easement being described as follows:
BEGINNING at a set rebar at the northwest corner of the 0.230 acre lease tract
THENCE leaving the 0.230 acre lease tract and following the west side of the easement for the following 33 calls to unmarked meander points unless otherwise noted: N 00°27'11" E 20.00'
Continuing S 89°32'49" E 45.19'; Continuing N 13°05'45" E 28.77'; Continuing N 12°34'05" E 29.96';
Continuing with a curve turning to the left with an arc length of 13.64' with a radius of 50.00' with a chord bearing of N 04°45'12" E with a chord length of 13.60'
Continuing N 03°03'41" W 29.21'; Continuing N 04°09'34" W 30.97'; Continuing N 04°34'39" W 14.86';
Continuing N 02°19'25" W 65.03'; Continuing N 03°59'12" W 117.81'; Continuing N 13°10'14" W 19.11';
Continuing N 25°27'25" W 13.83'; Continuing N 39°35'03" W 29.11'; Continuing N 46°46'31" W 27.93' to a set pin, Continuing N 42°43'11" W 29.13'; Continuing N 36°57'49" W 15.96'; Continuing N 27°37'40" W 19.91'
Continuing N 17°01'52" W 24.12'; Continuing N 04°55'34" W 23.51'; Continuing N 04°01'42" E 48.29';
Continuing N 09°03'39" E 170.08'; Continuing N 07°30'24" E 23.03'; Continuing N 01°36'13" W 28.54';
Continuing N 01°36'13" E 23.38'; Continuing N 12°56'59" W 22.14'; Continuing N 22°27'23" W 30.56';
Continuing N 24°23'04" W 30.52'; Continuing N 24°44'37" W 29.70'; Continuing N 25°45'22" W 30.74';
Continuing N 29°14'41" W 32.06'; Continuing N 31°42'03" W 30.29'; Continuing N 33°09'34" W 30.90';
Continuing N 28°36'42" W 43.32' to an unmarked point at the northwest corner of the 20' access & utility easement; said point being on the south side of Pittman Road,
THENCE with the south side of Pittman Road N 84°19'35" E 21.73' to an unmarked point, said point being referenced S 23°14'11" E 90.02' from an existing steel pipe without an id cap approx. 51' east of the "Y" of the end of Pittman Road,
THENCE leaving Pittman Road and following the east side of the easement for the following 33 calls to unmarked meander points unless otherwise noted: S 28°36'42" E 34.11'; Continuing S 33°09'34" E 30.36'
Continuing S 31°42'03" E 30.97'; Continuing S 29°14'41" E 33.10'; Continuing S 25°45'22" E 31.53';
Continuing S 24°44'37" E 29.94'; Continuing S 24°23'04" E 30.91'; Continuing S 22°27'23" E 32.56';
Continuing S 12°56'59" E 26.15'; Continuing S 01°36'13" W 26.92'; Continuing S 01°36'13" W 28.58';
Continuing S 07°30'24" W 23.28'; Continuing S 09°03'39" W 169.47' Continuing S 04°01'42" W 45.85';
Continuing S 04°55'34" E 19.82'; Continuing S 17°01'52" E 20.14'; Continuing S 27°37'40" E 16.42';
Continuing S 36°57'49" E 13.32'; Continuing S 42°43'11" E 27.42' to an unmarked point, said point being referenced N 45°15'09" E 20.01' from a set rebar on the west side of the easement,
Continuing S 46°46'31" E 28.48'; Continuing S 39°35'03" E 32.84'; Continuing S 25°27'25" E 18.46';
Continuing S 13°10'14" E 22.87'; Continuing S 03°59'12" E 119.71' Continuing S 02°19'25" E 64.92';
Continuing S 04°34'39" E 14.54'; Continuing S 04°09'34" E 31.23'; Continuing S 03°03'41" E 29.40';
Continuing with a curve turning to the right with an arc length of 19.10' with a radius of 70.00' with a chord bearing of S 04°45'12" W with a chord length of 19.04'
Continuing S 12°34'05" W 30.05'; Continuing S 13°05'45" W 24.38'; Continuing S 89°32'49" E 34.31';
Continuing S 00°27'11" W 20.00' to a set pin at the northeast corner of the 0.230 acre lease tract;
THENCE with the north line of the 0.230 acre lease tract N 89°32'49" W 100.00' to the point of beginning.

The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 1983, as determined by G.P.S. observations made on Feb 23, 2010 using the National Geodetic Survey Program "OPUS". These descriptions are based upon a survey completed by New Banks, Inc. DBA Turner Engineering and Land Surveying and certified by Glenn S. Turner, PLS 2153, on March 1, 2010
This survey is hereby referenced and made a part of these descriptions

SOURCE OF TITLE Being a portion of and lying entirely within the land described in deed to Timothy & Doris Wiles in Deed Book 268, Page 41 in the office of the county clerk of Casey County, Kentucky

SURVEYOR'S NOTES

1. THIS SURVEY IS SUBJECT TO A STATEMENT OF FACTS WHICH MAY BE DISCLOSED BY AN ABSTRACT OF TITLE OR A TITLE COMMITMENT POLICY. THIS DOCUMENTATION WAS NOT PROVIDED BY THE CLIENT.

2. NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT

3. THE UTILITIES SHOWN ON THIS PLAT MAY OR MAY NOT REPRESENT ALL THE UTILITIES LOCATED ON THE SUBJECT SITE. THE PRESENCE OF THE EXISTING UTILITIES SHOWN WAS DETERMINED BY A VISUAL INSPECTION OF THE PROPERTY SURFACE. NO UTILITY LOCATE WAS CALLED IN PRIOR TO THIS SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY UTILITIES PRESENT PRIOR TO CONSTRUCTION.

4. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAT WAS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL THE TOPOGRAPHIC FEATURES LOCATED ON THE SUBJECT PROPERTY

5. THE PROPOSED LOCATION OF THE DUNNVILLE SITE WILL BE LOCATED OUTSIDE OF AN INCORPORATED CITY

6. ACCORDING TO MR. RONALD WRIGHT, COUNTY JUDGE EXECUTIVE OF CASEY COUNTY, NO LOCAL PLANNING UNIT EXISTS WHICH HAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 606-787-6154 FOR CONFIRMATION

SURVEYOR CERTIFICATION

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAT WAS DONE BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDESHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE WAS 1:39,300 AND WAS NOT ADJUSTED. THE BEARINGS AND DISTANCES SHOWN ON THIS PLAT ARE BASED ON SAID UNADJUSTED TRAVERSE. THE SURVEY HEREON IS A CLASS "B" RURAL SURVEY AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.
BASIS OF BEARINGS: KY SOUTH ZONE 1602

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DATE OF SIGNATURE

GLENN S. TURNER, LICENSED PROFESSIONAL LAND SURVEYOR #2153

03/01/2010
DATE OF FIELD SURVEY

04/12/2010
DATE OF FINAL PLAT

REDUCED COPY

GRAPHIC SCALE

30 0 15 30 60 90
1 INCH = 30 FEET
CONTOUR INTERVAL = 1 Foot

NO.	DATE	DESCRIPTION	BY
1			

~ REVISIONS ~

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
PH. (270) 737-3232 FAX (270) 769-5497

LEASE BOUNDARY SURVEY
350 PITTMAN ROAD
DUNNVILLE, KY 42528

PREPARED FOR
BLUEGRASS CELLULAR
2902 RING ROAD
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DRWN BY: J LYNCH	CHKD BY: G TURNER
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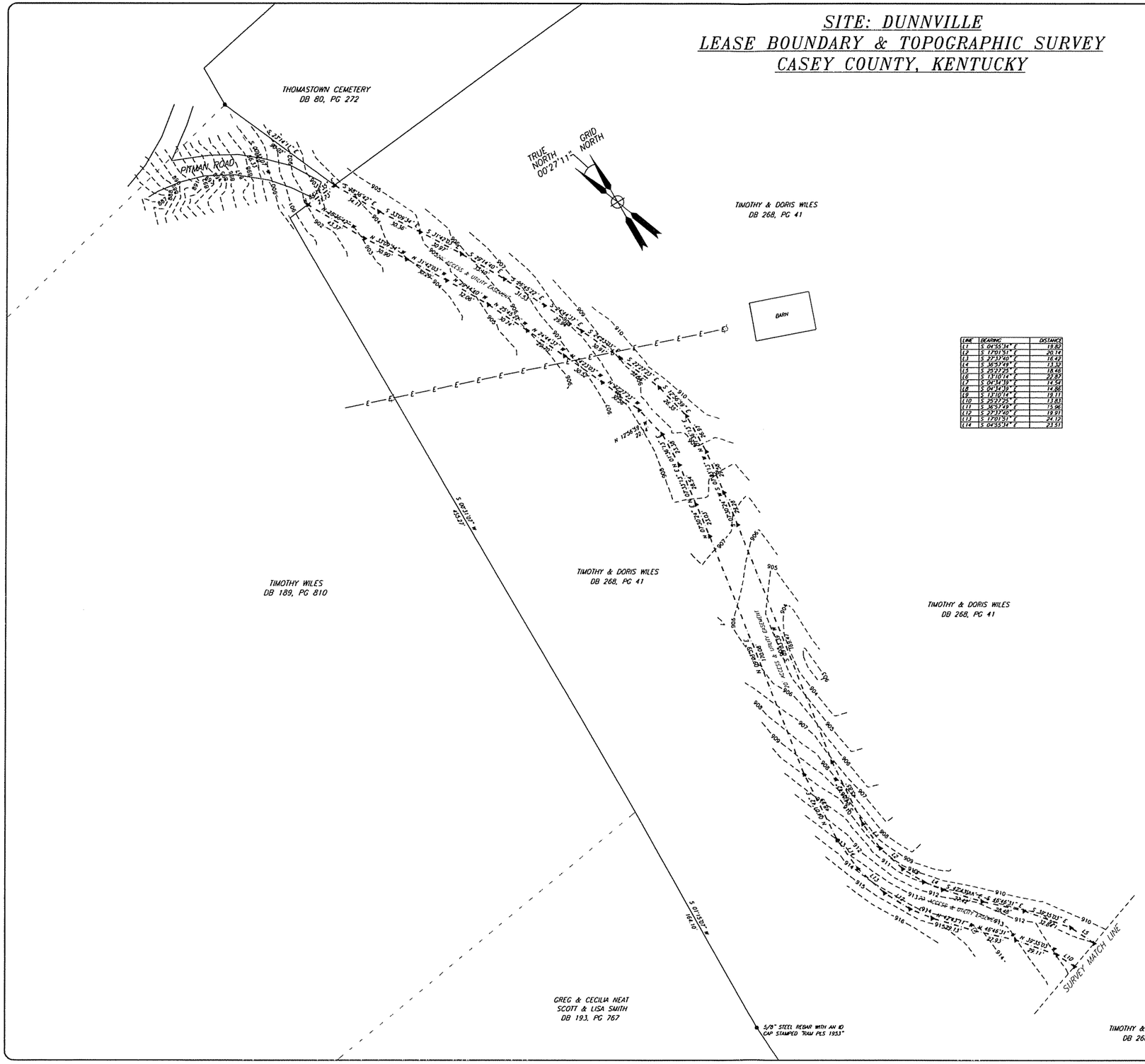

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DATE OF
SIGNATURE

GLENN S TURNER, LICENSED
PROFESSIONAL LAND
SURVEYOR #2153

03/01/2010
DATE OF
FIELD SURVEY

04/12/2010
DATE OF
FINAL PLAT

REDUCED COPY

LEGEND

- □ 1/2" X 24" SET REBAR WITH AN ID CAP STAMPED "G.S. TURNER PLS 2153"
- ● EXISTING STEEL PIPE WITHOUT AN ID CAP
- ▲ UNMARKED RIGHT OF WAY POINTS
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- —E— OVERHEAD ELECTRIC LINE
- T TELEPHONE PEDISTAL

GRAPHIC SCALE

30 0 15' 30' 60' 90

1 INCH = 30 FEET

CONTOUR INTERVAL = 1 Foot

~ REVISIONS ~

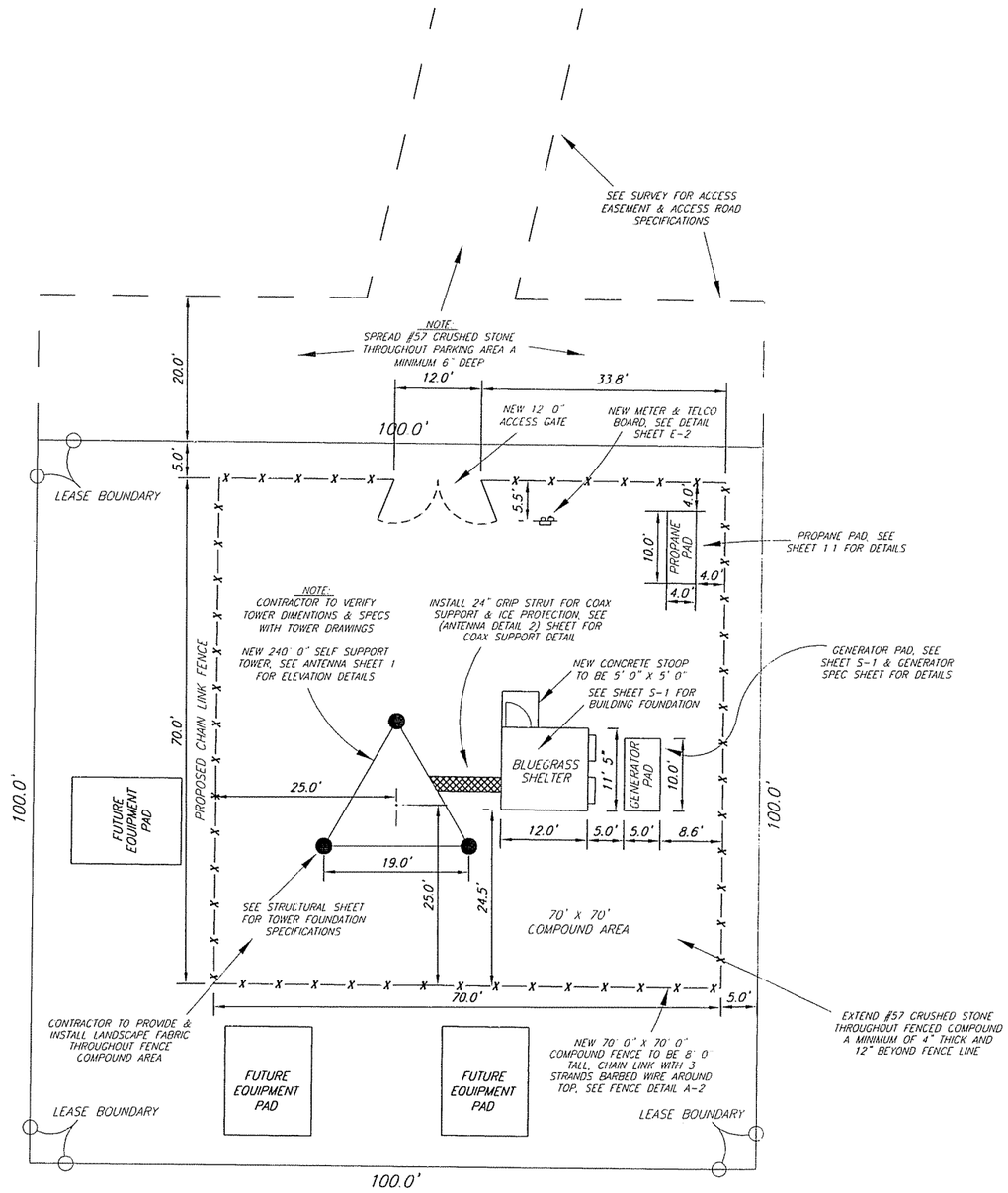
NO.	DATE	DESCRIPTION	BY
1			

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
PH. (270) 737-3232 FAX (270) 769-5497

LEASE BOUNDARY SURVEY
350 PITTMAN ROAD
DUNNVILLE, KY 42528

PREPARED FOR:
BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701

DRWN BY: J LYNCH	CHKD BY: G TURNER
DATE: 04/12/2010	AREA:
SCALE: 1"=30'	BILL NO: 10-DUNNVILLE
DRAWING: C:\Drawings\BGCELL\2009\DUNNVILLE SITE	
PVA #: 043-00-00-005	
SHEET 2 OF 2	



GENERAL NOTES

1) EQUIPMENT PICK-UP AND DELIVERY TO SITE FROM BLUEGRASS CELLULAR STAGING FACILITY TO BE THE CONTRACTORS RESPONSIBILITY, INCLUDING CRANE SET AND ALL COST INCURRED

2) FOR, BUILDING AND ALL CONCRETE PAD DETAILS REFER TO STRUCTURALS AND SHEET S-1

3) ALL CONCRETE TO HAVE SPECIFIED COATED SEALANT PER STRUCTURAL RECOMMENDATIONS.

4) ANY DAMAGE DUE TO CONSTRUCTION, TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION (SUBJECT TO BLUEGRASS CELLULAR'S APPROVAL)

5) ANY DAMAGE TO NATURAL SURROUNDINGS INCLUDING BUT NOT LIMITED TO, GRASS, TREES, LANDSCAPING, ETC.. TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AT BLUEGRASS CELLULAR'S APPROVAL.

6) ROADWAYS TO BE GRADED SMOOTH AND EVEN, REMOVING ALL POTHOLES. ROADS TO HAVE PROPER DRAINAGE AND RUNOFF PER BLUEGRASS CELLULAR'S APPROVAL

7) ANY RELOCATION OF EXISTING UTILITIES TO BE DONE IN ACCORDANCE WITH LOCAL CODES AND RECOMMENDATIONS, CONSULTING ALL UTILITY COMPANIES INVOLVED FOR APPROVAL AND SPECIFICATIONS REQUIRED.

8) FOR GRADING DETAILS, SEE GENERAL WORKSHEET

9) CONTRACTOR TO FIELD VERIFY ALL TOWER DIMENSIONS WITH TOWER MANUFACTURER PRIOR TO JOB BIDDING OR START OF ANY CONSTRUCTION

10) CONTRACTOR RESPONSIBLE FOR APPLYING FOR SERVICE TO SITE AND PAYING ANY FEES REQUIRED FOR PERMITS, HOOKUPS, ETC.

SITE PLAN

SCALE: 1" = 20'

TURNER ENGINEERING, INC
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~ REVISIONS ~

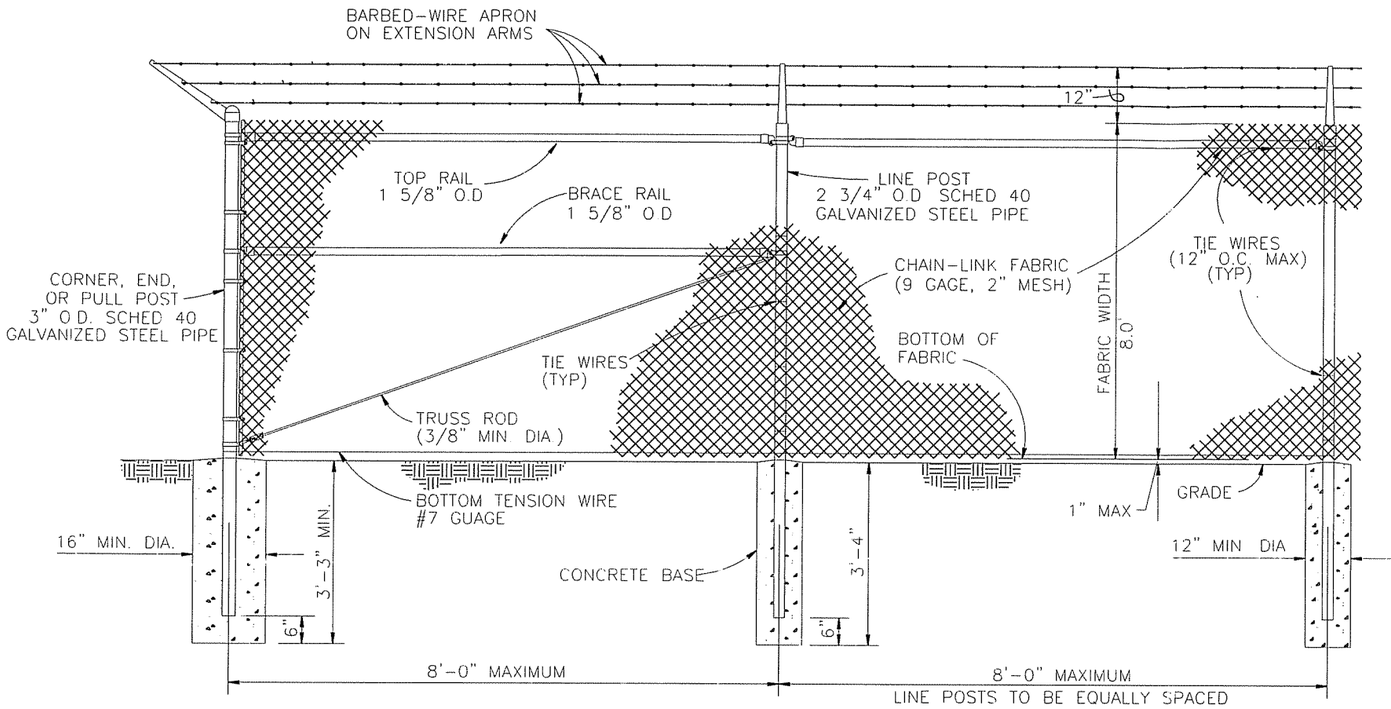
NO.	DATE	DESCRIPTION	BY

BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=20'

SHEET NUMBER
A-1



CHAIN LINK SECURITY FENCE DETAIL

NO SCALE

CHAIN LINK FENCING NOTES

1) FABRIC. THE FABRIC SHALL BE COMPOSED OF INDIVIDUAL HOT DIP GALVANIZED WIRE PICKETS VERTICALLY WOUND AND INTERWOVEN FROM NO. 9 W & M GAUGE COPPER BEARING STEEL WIRE TO FORM A CONTINUOUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL BE TWISTED AND BARBED.

2) POSTS. SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALVANIZED. THESE POSTS SHALL BE SPACED APPROXIMATELY 8'-0" ON CENTERS AND SET FULL 3'-3" IN BELL - SHAPED CONCRETE FOOTING, CROWNED AT TOP TO SHED WATER

3) TOP RAIL. SHALL BE 1 5/8" O.D STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS AVERAGING NOT LESS THAN 20'.

4) FABRIC TIES. FOR ATTACHING FABRIC TO LINE POST, TOP RAIL OR TOP WIRE, SHALL BE ALUMINUM STRIP OF WIRE OF APPROVED GAUGE AND DESIGN. USED ON TOP OF RAIL EVERY 24" AND ON POSTS EVERY 12"

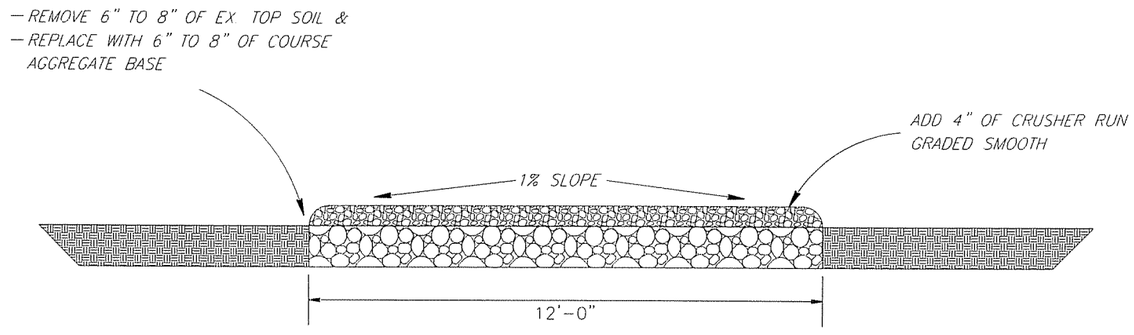
5) EXTENSION ARMS. CAST STEEL GALVANIZED TO ACCOMMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.

6) BARBED WIRE (STEEL). ASTM A121 GALVANIZED STEEL, 12 GAUGE THICK WIRE, 3 STRANDS, 4 POINTS AT 3" ON CENTER.

7) SWING GATE POSTS. SHALL BE 3" O.D. STANDARD HOT GALVANIZED, WEIGHING 5.79 LBS. PER FOOT.

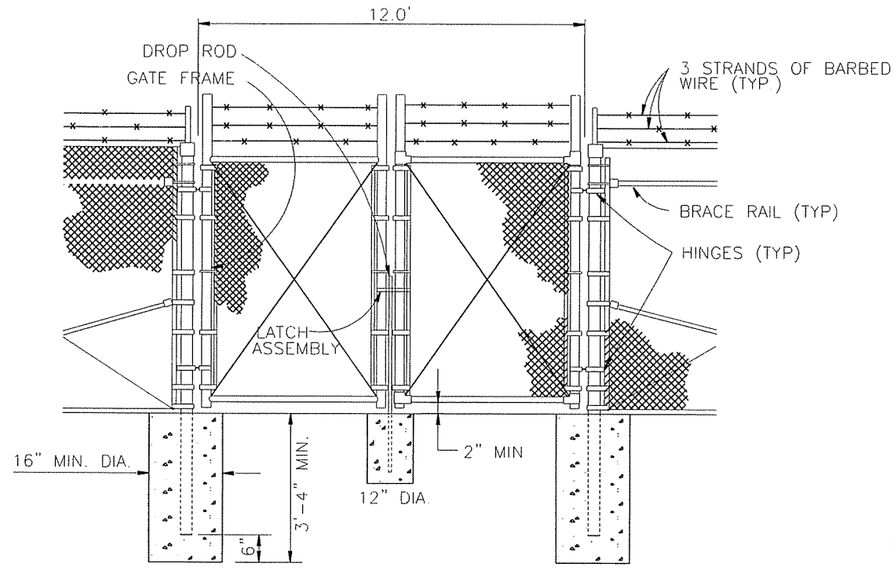
8) SWING GATES: 2" O.D. STANDARD PIPE WITH INTERNAL BRACING OF 1 5/8" O.D. STANDARD PIPE, WELDED AT ALL JOINTS TO PROVIDE RIGID WATERTIGHT CONSTRUCTION. FABRIC MUST BE THE SAME MATERIAL AS FENCE.

9) FENCE TO BE 100% ERECTED WITHIN TEN (10) DAYS OF COMPLETION OF CONSTRUCTION, IF TIME FRAME CANNOT BE MET, PLEASE NOTIFY PROJECT SUPERVISOR



ROAD DETAIL

NO SCALE



DOUBLE SWING GATE

NO SCALE

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~ REVISIONS ~

NO.	DATE	DESCRIPTION	BY

BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

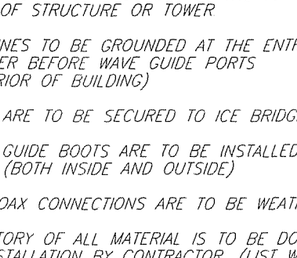
DRAWN BY: JLYNCH LSIT

DATE: 05/20/10 SCALE 1"=100'

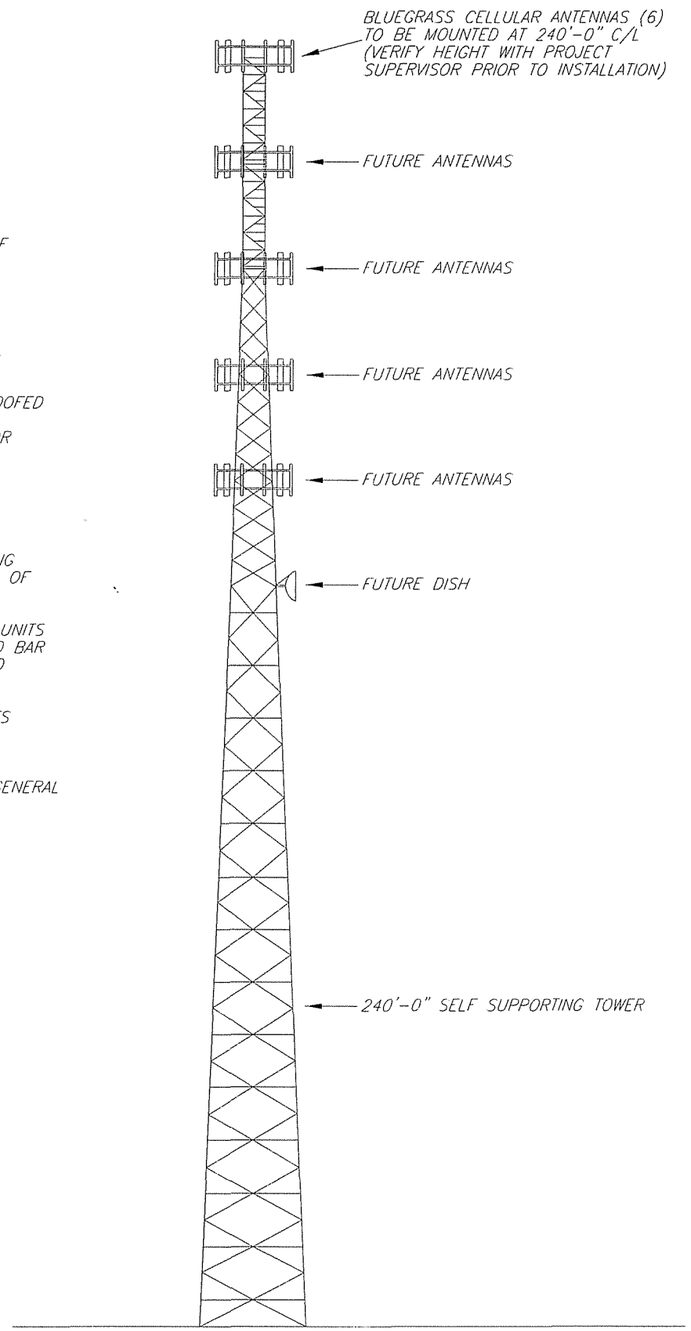
SHEET NUMBER
A-2

BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS

- ALL LINES AND ANTENNAS TO BE PROPERLY MOUNTED TO TOWER OR STRUCTURE PER BLUEGRASS CELLULAR SPECIFICATIONS
- ALL GROUND BARS TO BE INSTALLED AND CAD WELDED TO GROUND FIELD (WHERE REQUIRED)
- ALL LINES TO BE GROUNDED AT THE TOP AND BASE OF STRUCTURE OR TOWER
- ALL LINES TO BE GROUNDED AT THE ENTRANCE OF SHELTER BEFORE WAVE GUIDE PORTS (EXTERIOR OF BUILDING)
- LINES ARE TO BE SECURED TO ICE BRIDGE
- WAVE-GUIDE BOOTS ARE TO BE INSTALLED ON ALL LINES (BOTH INSIDE AND OUTSIDE)
- ALL COAX CONNECTIONS ARE TO BE WEATHER PROOFED
- INVENTORY OF ALL MATERIAL IS TO BE DONE PRIOR TO INSTALLATION BY CONTRACTOR (LIST WILL BE PROVIDED)
- ALL TRASH AND REFUGE IS TO BE PROPERLY DISPOSED OF FROM SITE
- CONTRACTOR TO EXTEND HARD LINES INTO BUILDING 12" AND INSTALL POLYPHASERS, PER INSTRUCTION OF PROJECT SUPERVISOR.
- CONTRACTORS TO SUPPLY POLYPHASERS OR LIKE UNITS TO BE INSTALLED AND GROUNDED TO THE GROUND BAR INSIDE BUILDING AT WAVE GUIDE ENTRANCE. GO TO SUPPLY GROUND CABLE AND LUGS
- GENERAL CONTRACTOR TO MOUNT ANTENNA MOUNTS AT TOP OF STRUCTURE OR TOWER BY BLUEGRASS CELLULAR SPECIFICATIONS
- ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (ADDITIONAL ICE BRIDGE IF NEEDED)
- TRAPEZE KIT TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR
- CONTRACTOR TO INSTALL GPS BRACKET



VERIFY ANTENNA ORIENTATION WITH ANTENNA SPECIFICATIONS



SELF SUPPORT TOWER ELEVATION (TYPICAL)

TOWER HEIGHT & TYPE
240'-0" SELF SUPPORT TOWER

ANTENNA SPECS					***VERIFY WITH PROJECT SUPERVISOR
	TYPE	SIZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	DBB-HBX-9016DS	78.6 x 10.3 x 4.6	6	0°, 120°, 240°	***240'-0" C/L
ANTENNA (SECONDARY)					

ANTENNA MOUNTING HARDWARE SPECS			
	TYPE	SIZE	NUMBER
MOUNT (PRIMARY)	TRI-SECTOR MOUNT		3
MOUNT (SECONDARY)			

ANTENNA TRANSMISSION LINES SPECS			
	TYPE	SIZE	NUMBER
TRANSMISSION LINE (PRI)	ANDREW	1 5/8"	6
TRANSMISSION LINE (SEC)			

DISH SPECS					
	MICROWAVE / DONOR	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
DISH #1	TPG-P-24A48GN-U	4'	1	215.480	170
DISH #2					

DISH MOUNT SPECS			
	TYPE	SIZE	NUMBER
MOUNT #1			
MOUNT #2			

DISH TRANSMISSION LINES			
	TYPE	SIZE	NUMBER
TRANSMISSION LINE #1	ANDREW	1 5/8"	1
TRANSMISSION LINE #2			

ANTENNA SYNOPSIS
* ANTENNA TO HAVE A 2° EAST X,Y,Z
* ANTENNA FREQUENCY 880.00 - 890.00

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~ REVISIONS ~

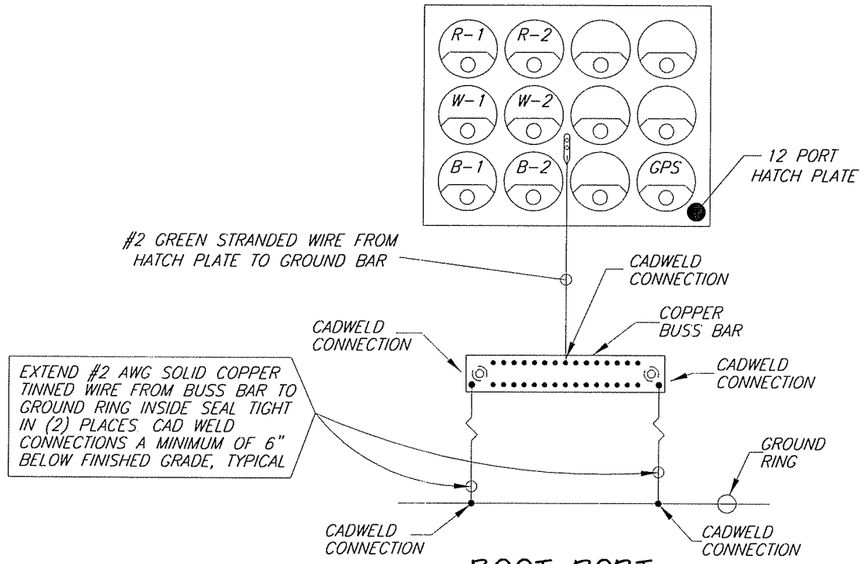
NO.	DATE	DESCRIPTION	BY

BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

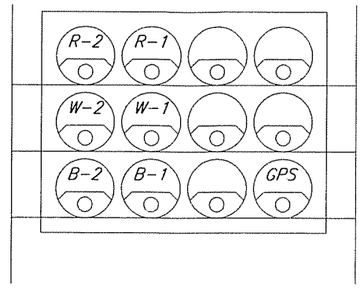
DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE NTS

SHEET NUMBER
ANTENNA DETAILS 1



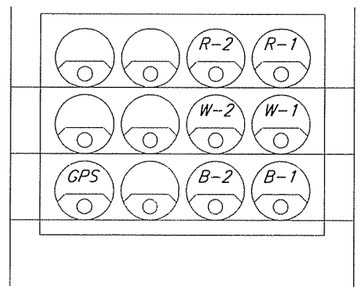
BOOT PORT GROUNDING DETAIL

NO SCALE



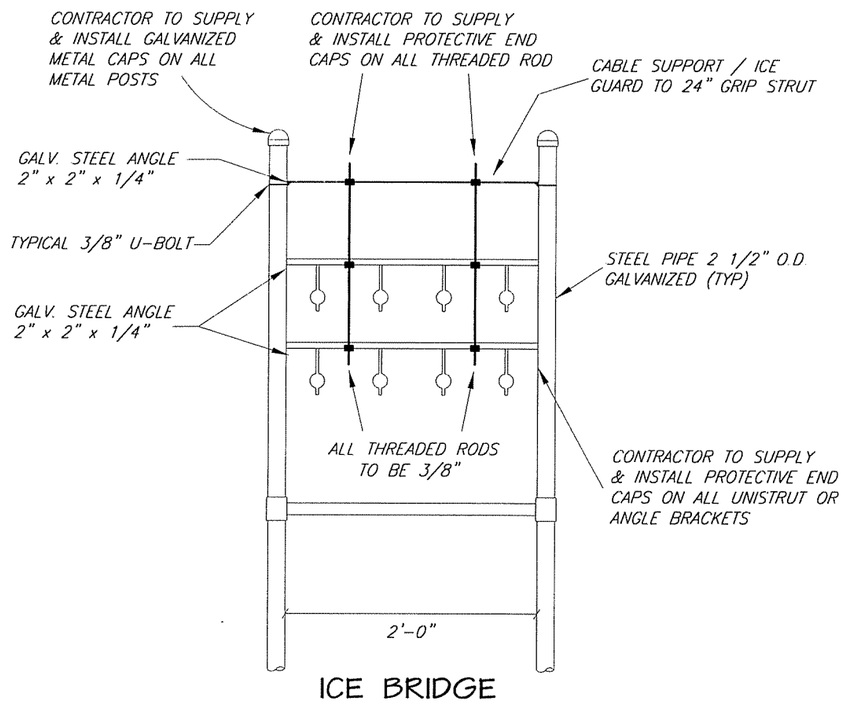
COAX ENTRY DETAIL A/C SIDE (VIEW FROM INSIDE SHELTER)

NO SCALE



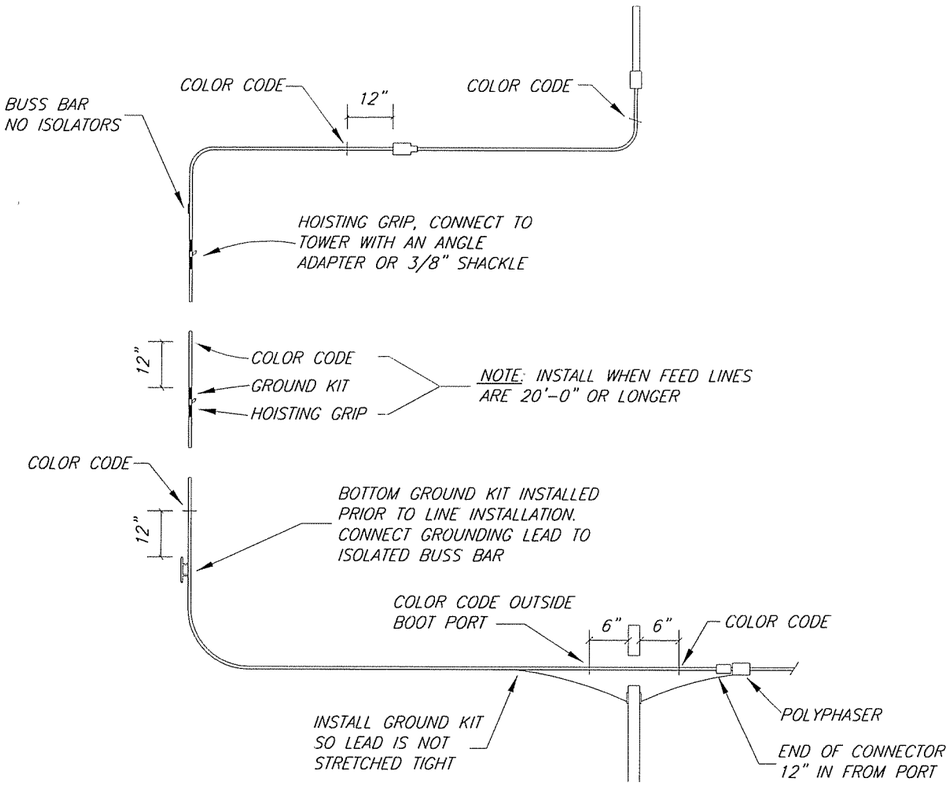
COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELTER)

NO SCALE



ICE BRIDGE COAX SUPPORT DETAIL

NO SCALE



COLOR CODING DETAIL

NO SCALE

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BLUEGRASS CELLULAR
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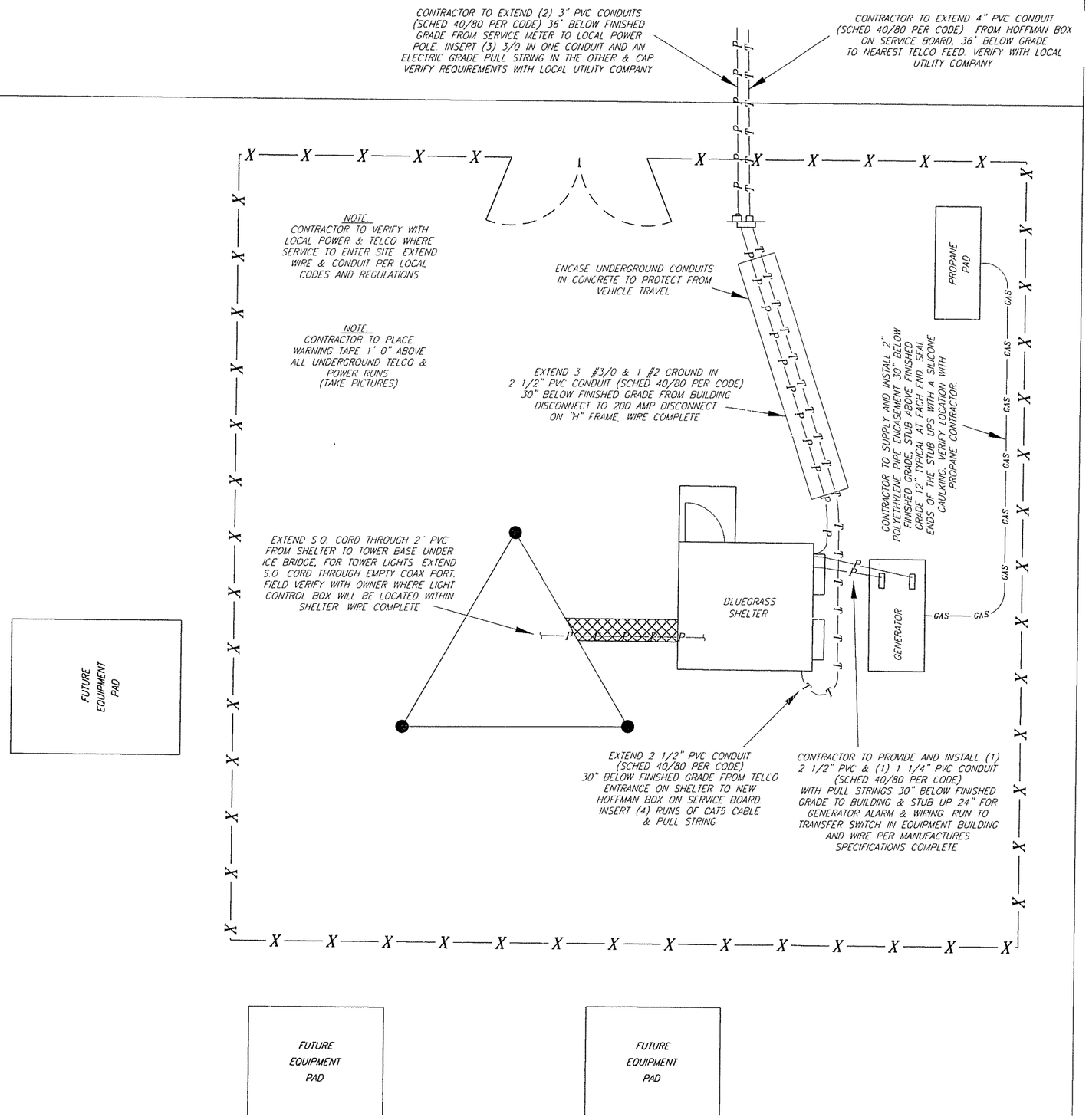
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

DRAWN BY: JLYNCH LSIT

DATE: 05/20/10 SCALE 1"=100'

SHEET NUMBER
ANTENNA DETAILS 2



GENERAL ELECTRIC NOTES

1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

3) GROUND RING TO BE CONTAINED WITHIN THE COMPOUNDS FENCE AREA

4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROX. 20'-0" O.C. (CADWELD ALL CONNECTIONS)

5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE, SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL

6) CONTACT POINTS FOR GROUNDING TO BE CLEARED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING

7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.

8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS

9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED

10) CONTRACTOR RESPONSIBLE FOR MEG. TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS

11) IF CONDUIT RUNS BURIED LESS THAN REQUIRED DEPTHS, CONTACT BLUEGRASS CELLULAR FOR FURTHER INSTRUCTIONS

12) CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDER GROUND. TAPE TO BE INSTALLED 1'-0" ABOVE CONDUIT RUNS (CONTRACTOR TO TAKE PICTURES)

SYMBOLS LEGEND

—P—	POWER
—GAS—	GAS
—T—	TELEPHONE
—X—	FENCE
	SWITCH DISCONNECT
M	METER PACK

SITE PLAN- ELECTRICAL

SCALE: 1" = 10'

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BLUEGRASS CELLULAR
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ELIZABETHTOWN, KY 42701
270-769-0339

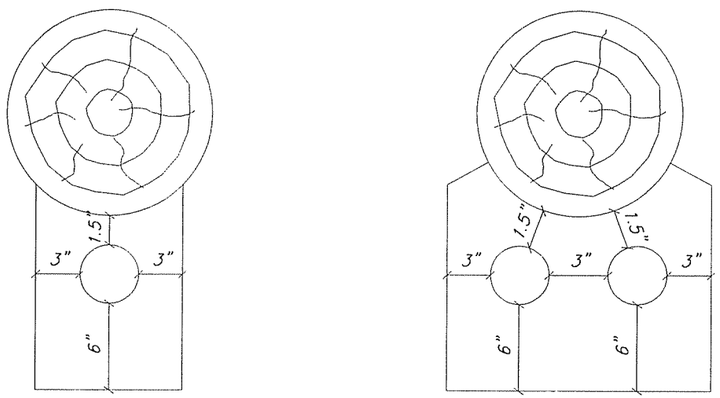
STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

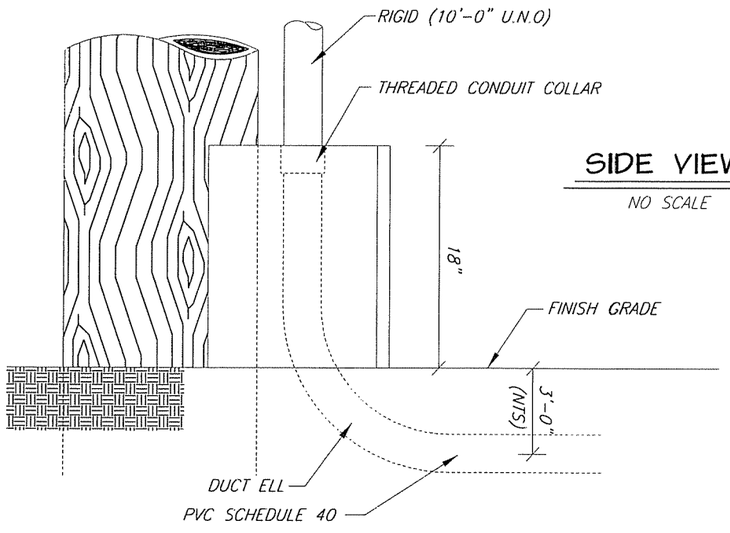
DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=10'

SHEET NUMBER
E-1

TOP VIEW

NO SCALE



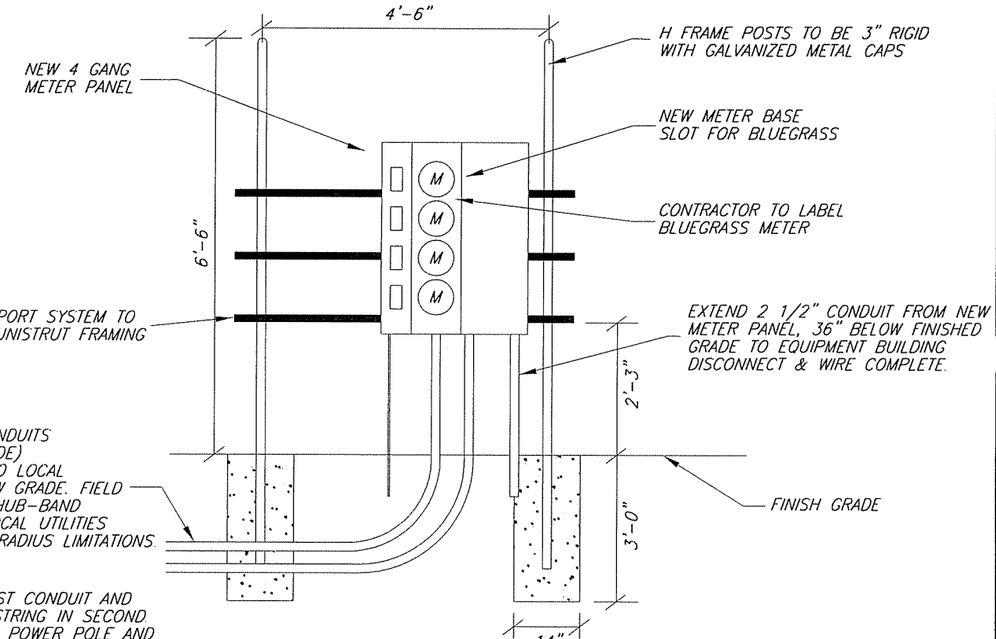


SIDE VIEW

NO SCALE

HUB-BAND DETAIL

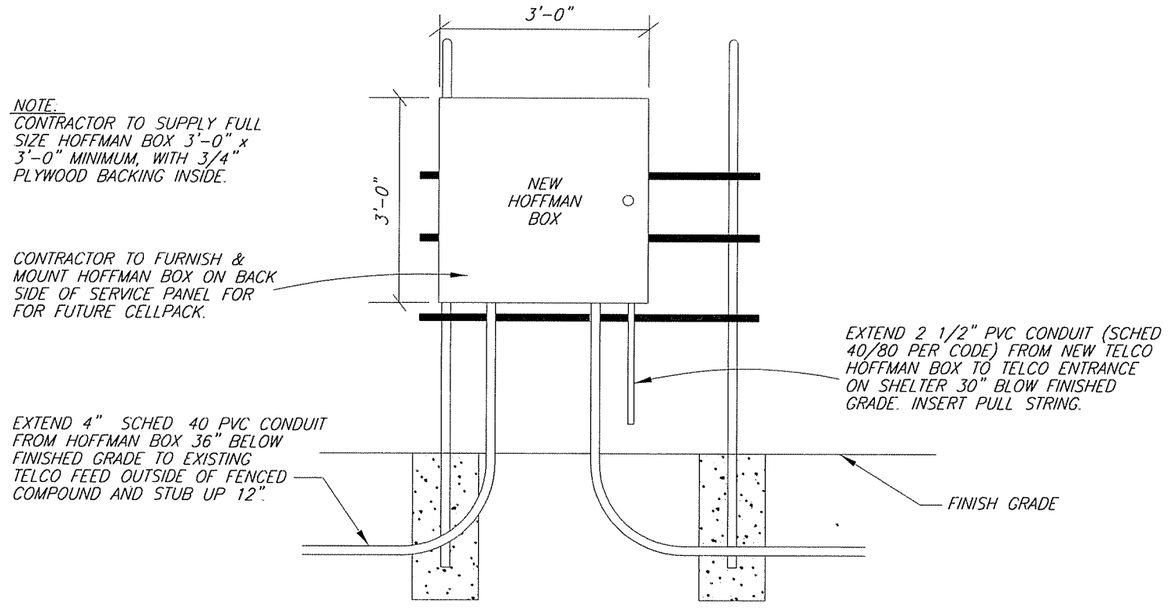
NO SCALE



NOTE:
EXTEND (3) 3/0 IN FIRST CONDUIT AND ELECTRIC GRADE PULL STRING IN SECOND. EXTEND BOTH TO LOCAL POWER POLE AND STUB UP 24". CAP OFF AND SEAL PULL STRING CONDUIT.

SERVICE BOARD DETAIL

NO SCALE



NOTE:
CONTRACTOR TO SUPPLY FULL SIZE HOFFMAN BOX 3'-0" x 3'-0" MINIMUM, WITH 3/4" PLYWOOD BACKING INSIDE.

BACKBOARD DETAIL

NO SCALE

TURNER ENGINEERING, INC
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270-769-0339

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DUNNVILLE SITE
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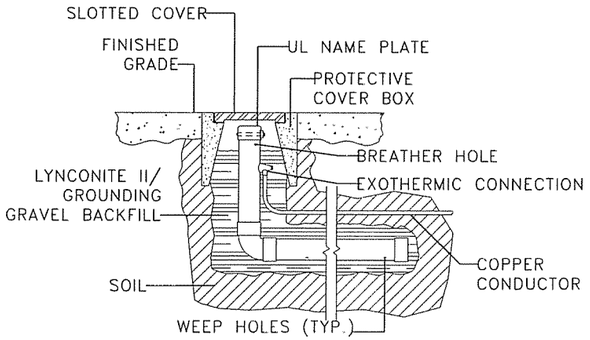
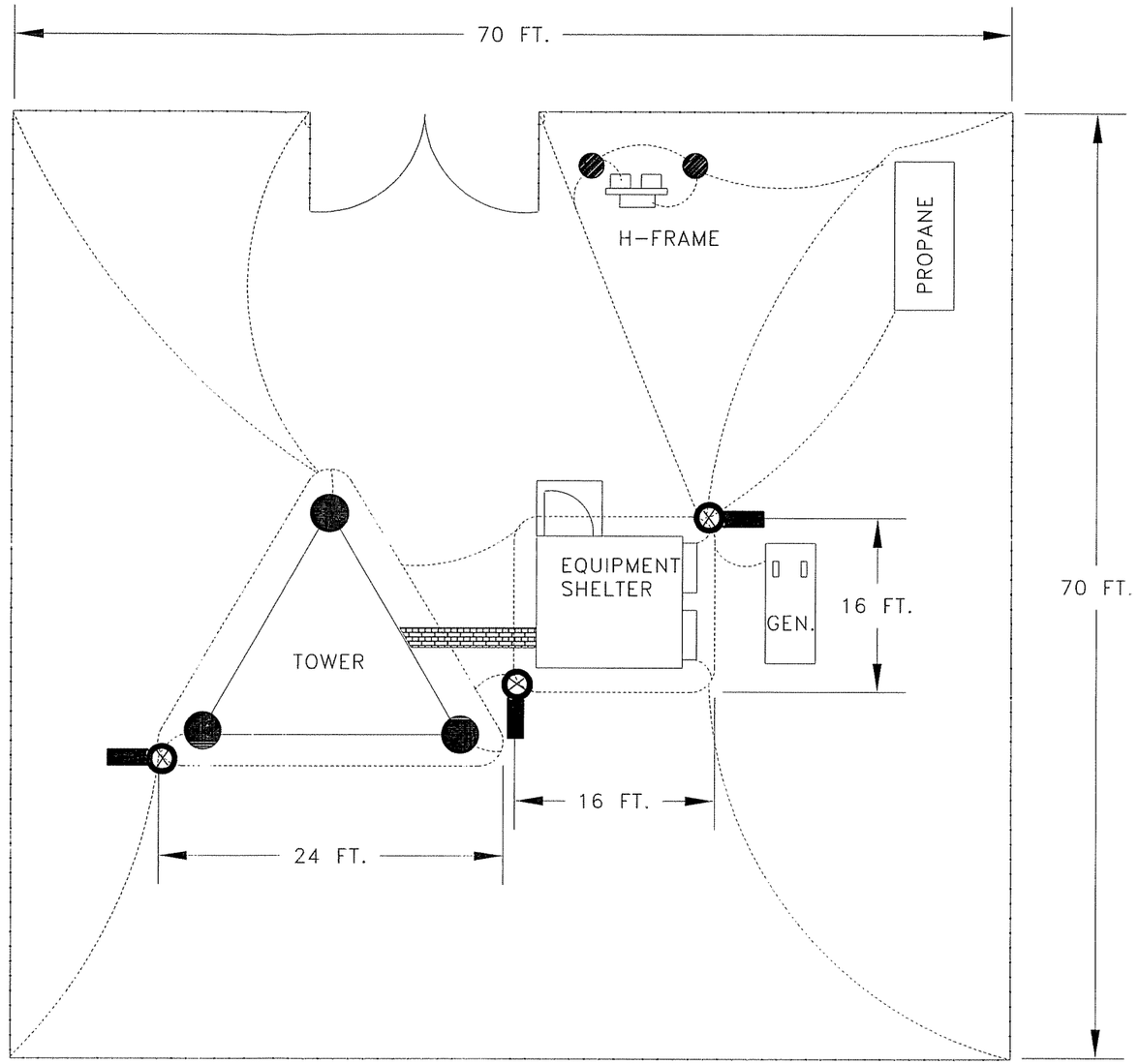
DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=100

SHEET NUMBER
E-2



L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

DETAIL



NOTES:

FENCE LINE

BARE #2 AWG TINNED SOLID COPPER CONDUCTOR
BURIED 30 IN BELOW GRADE OR 6 IN. BELOW FROST LINE
ALL BENDS IN GROUND CONDUCTORS TO BE MADE
WITH 12 IN RADIUS OR LARGER

K2L-10CS-24 (SEE DETAIL)

LYNCOLE
TECHNICAL SERVICES
3547 VOYAGER STREET, SUITE 204
TORRANCE, CA 90503
(800)962-2610 FAX (310)214-1114
ENGINEERING@LYNCOLE.COM

CLIENT / END USER: RSB DESIGN – BLUEGRASS CELLULAR			
DRAWING: 1	PROJECT NAME: DUNNVILLE		
TITLE: GROUNDING OPTION			
LOCATION: CITY, STATE: DUNNVILLE, KY		CALCULATED RESISTANCE: < 5 OHMS	
DRAWN BY: BBD	APPROVED BY:	DATE: 5/26/10	
SOIL DATA PROVIDED BY: PATRIOT ENGINEERING	REFERENCE NUMBER: N/A	SCALE: NONE	LTS NUMBER: 100079

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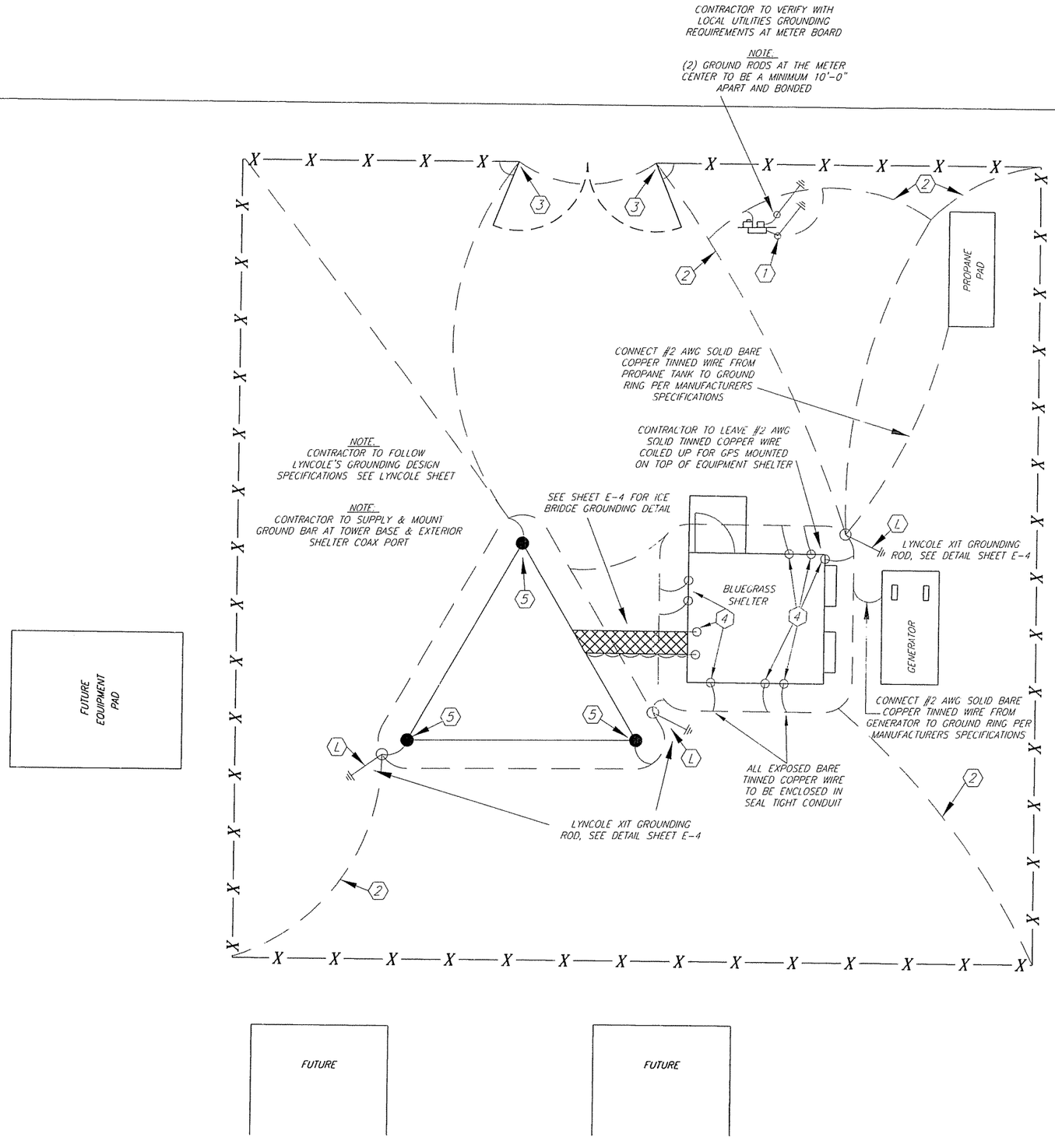
DATE: 05/20/10 SCALE NTS

SHEET NUMBER
LYNCOLE TECHNICAL



GENERAL ELECTRIC NOTES

1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEES PAYMENTS REQUIRED TO OBTAIN SERVICE.

3) GROUND RING TO BE CONTAINED WITHIN THE COMPOUNDS FENCED AREA

4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POSTS & GATES. SPACE FENCE GROUNDING APPROX 20'-0" ON CENTER (CADWELD ALL CONNECTIONS)

5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL

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7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.

8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS

9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.

10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

11) CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDERGROUND. TAPE TO BE INSTALLED AT 9" BELOW GRADE.

12) CONTRACTOR TO FOLLOW LYNCOLE GROUNDING SPECIFICATIONS WHEN USING THEIR XIT GROUNDING RODS. SEE DETAIL SHEET E-4

KEYNOTES

(L) LYNCOLE XIT GROUNDING ROD TO BE INSTALLED WHERE SHOWN AND TO MANUFACTURES SPECIFICATIONS. (SEE LYNCOLE SPECIFICATIONS)

(1) GROUNDING RODS 10'-0" LONG x 3/4" COPPER BONDED GROUND RODS (TYPICAL) SPACING OF RODS INDICATED ON PLANS.

(2) INSTALL AND PROVIDE SOLID BARE TINNED COPPER WIRE #2 AWG GROUND RING BELOW GRADE 30". USE #2 AWG SOLID BARE TINNED COPPER GROUND "TAP" CONNECTING CONDUCTORS. (CONNECTIONS FOR ALL TAP CONDUCTORS TO BE PARALLEL AND "CADWELD" CONNECTIONS)

(3) FLEXIBLE GROUNDING STRIP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND CHAIN LINK FENCE, #2 AWG SOLID COPPER BARE TINNED CONDUCTOR FROM GROUND RING TO FENCE USING CAD WELD CONNECTIONS. GROUND TAP TO BE PROVIDED ON EACH 4 SIDES TO GROUND RING AS DESCRIBED ABOVE

(4) BONDING GROUND TO BE PROVIDED TO GROUND RING FOR EACH OF THE FOLLOWING: BUILDING STEEL, HATCH PLATE, EMERGENCY RECEPTACLE, WAVE GUIDE STRUCTURE, FRAME WORK, BUILDING DISCONNECT

(5) FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY AT SPOT OF "CAD WELD" TO AND CLEAN. #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO BE CAD WELDED APPROXIMATELY 1'-0" ABOVE FOUNDATION OR AT FLANGE IF PROVIDED BY TOWER MANUFACTURER. EXTEND CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED, ALL BENDS TO BE SWEEPING.

SITE PLAN- GROUNDING

SCALE 1" = 10'

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
P (270) 737-3232 F (270) 769-5497

~ REVISIONS ~

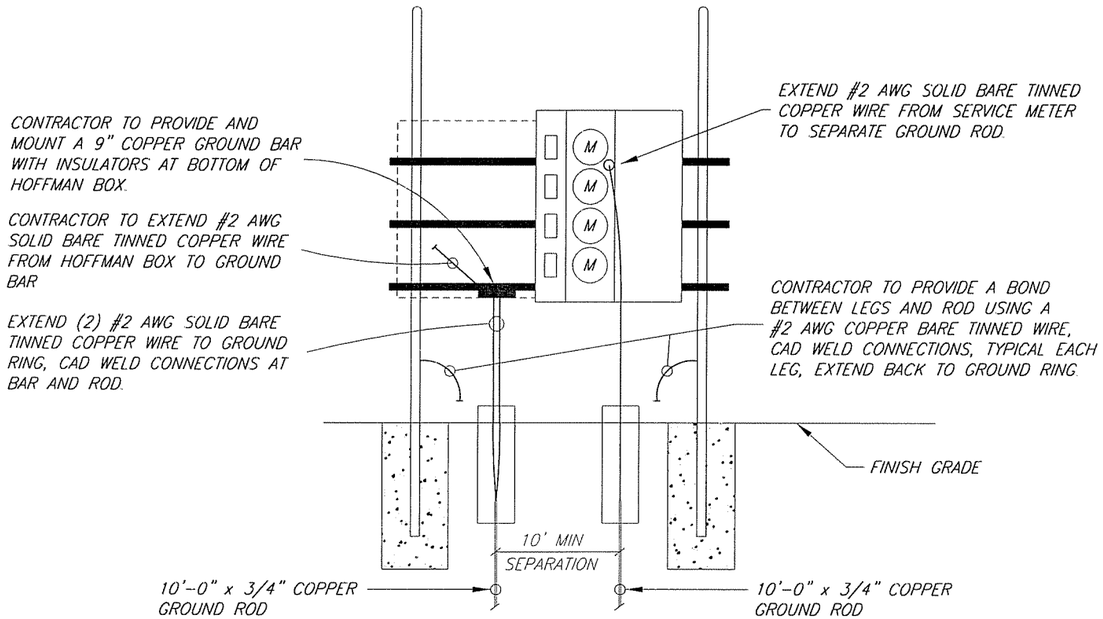
NO.	DATE	DESCRIPTION	BY

BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

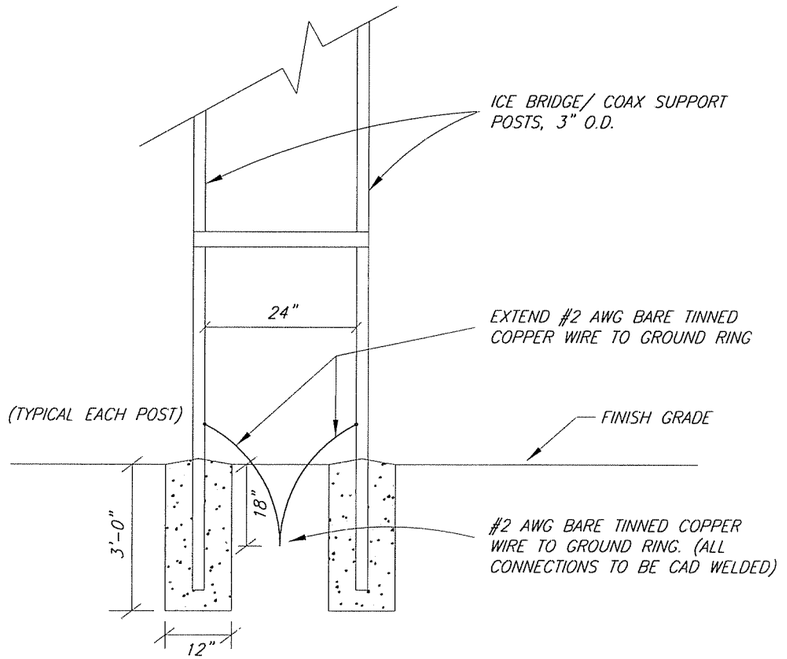
DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=10'

SHEET NUMBER
E-3



SERVICE BOARD DETAIL

NO SCALE



COAX SUPPORT DETAIL

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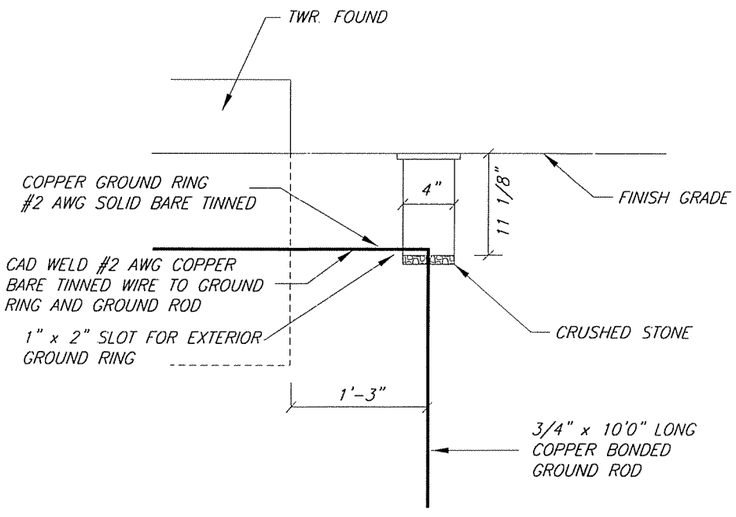

GROUND ROD DETAIL

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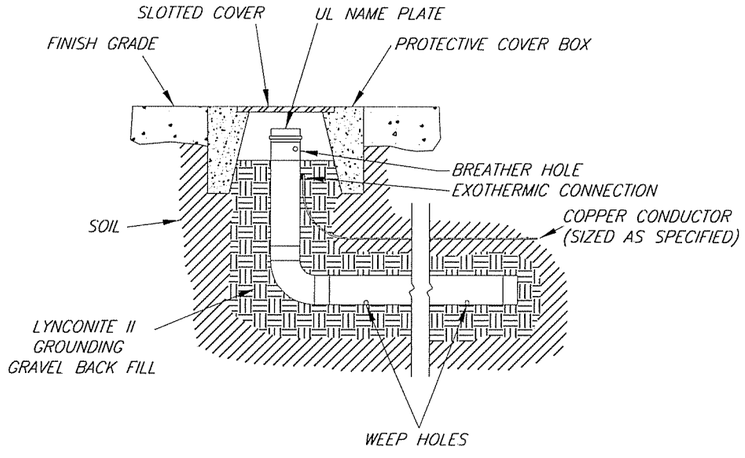

LYNCOLE XIT ROD DETAIL

NO SCALE

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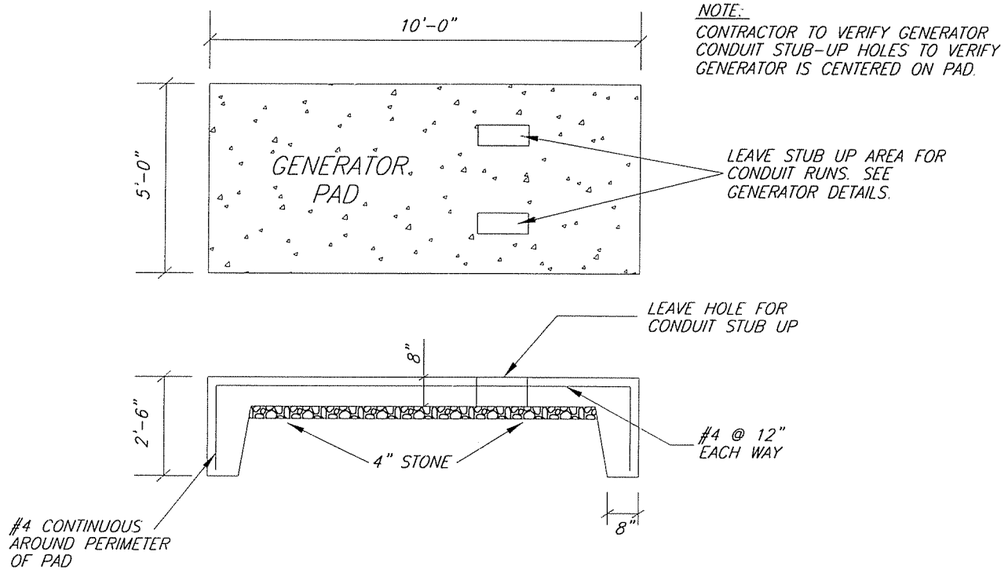
DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=100'

SHEET NUMBER
E-4



FOUNDATION DETAIL

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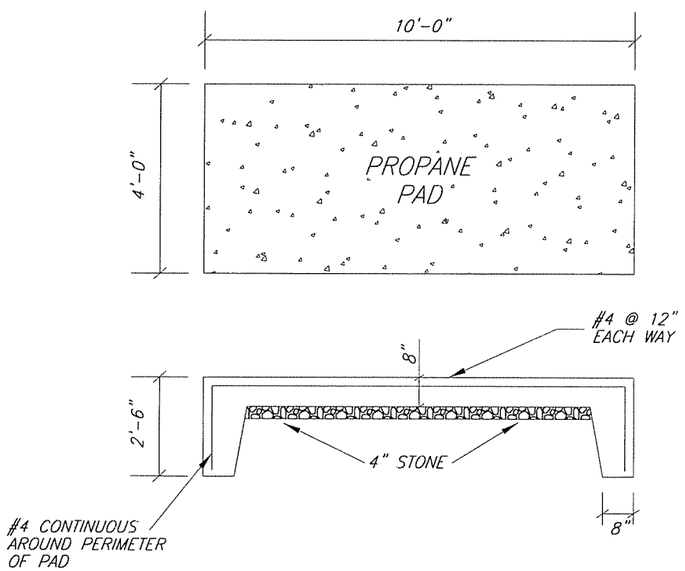

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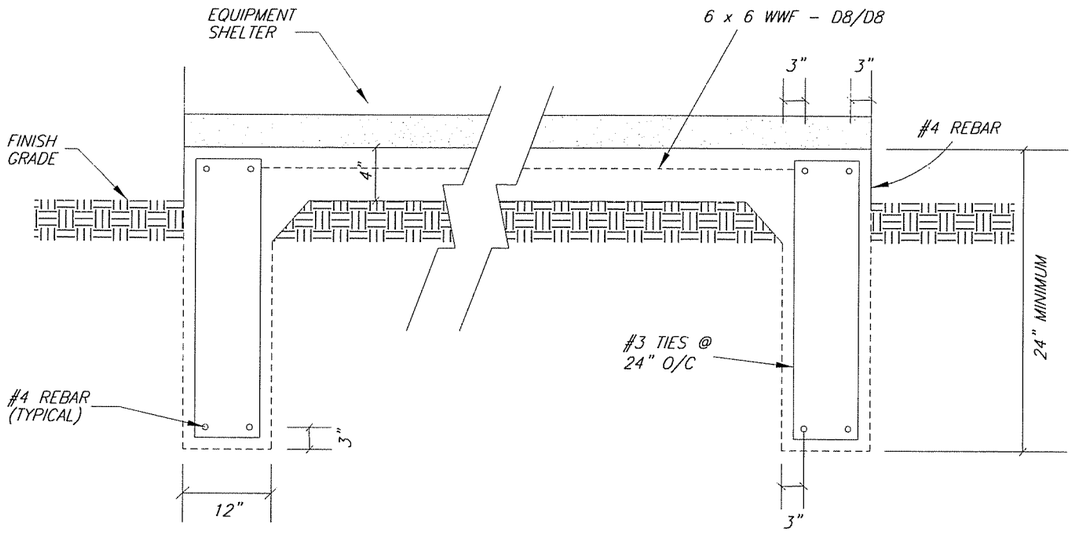
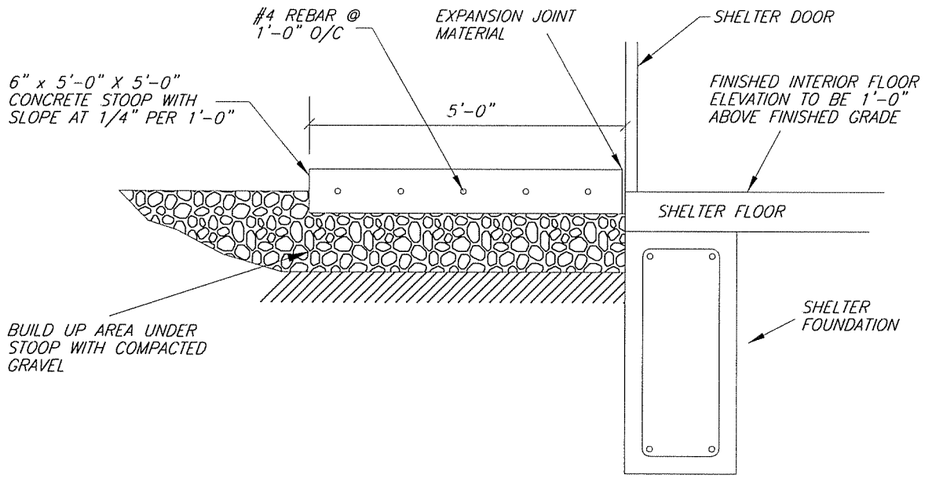


SHELTER FOUNDATION PLAN

NO SCALE



CONCRETE STOOP DETAIL

NO SCALE

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
P (270) 737-3232 F (270) 769-5497

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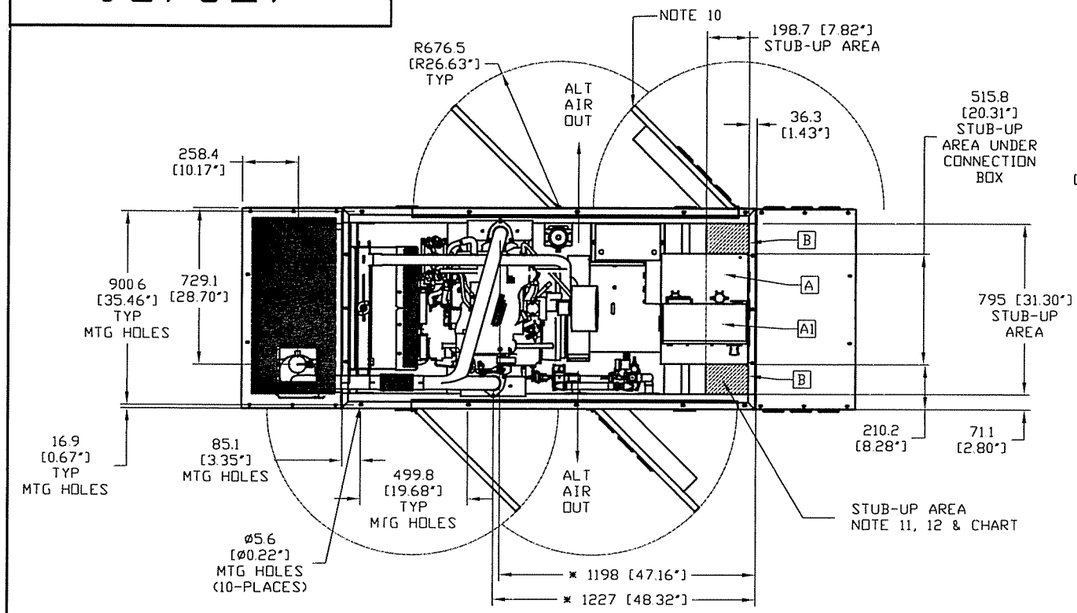
ELIZABETHTOWN, KY 42701
270-769-0339

STANDARD CELLULAR SITE
DUNNVILLE SITE
350 PITTMAN ROAD, DUNNVILLE, KY. 42528

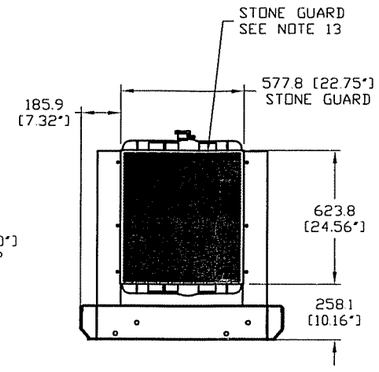
DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=100'

SHEET NUMBER
S-1

0G7627



TOP OR PLAN VIEW



RADIATOR END VIEW WITH STONE FUARD OPTION

RECOMMENDED FUEL/ELECTRICAL STUB-UPS (SEE TOP VIEW)	
DESCRIPTION	INSIDE BASE
AC LOAD LEAD CONDUIT (RIGHT)	A
(LEFT)	A'
ADDITIONAL STUB UP AREA FOR 120VAC GFCI OUTLET, (STANDARD BLOCK HEATER, BATTERY CHARGER, AND OTHER 120 VAC OPTIONS)	B

NOTE:
FUEL SYSTEM SET UP WITH OUTSIDE STUB-UPS (SEE RIGHT SIDE VIEW).

WEIGHT DATA
UNIT: ??? kg [??? lbs.]
STEEL ENCLOSURE: ??? kg [??? lbs]

UNITS: mm [INCHES]

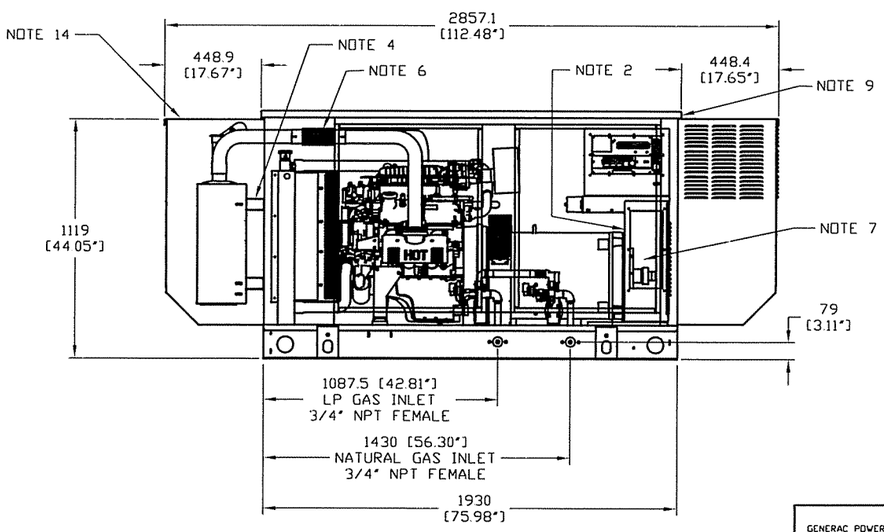
ENGINE SERVICE CONNECTIONS

INLET L/P GAS = 3/4" NPT COUPLING
INLET NATURAL GAS = 3/4" NPT COUPLING
OIL DRAIN = 1/2" NPT COUPLING
EXHAUST OUTLET - EXHAUST MANIFOLDS AS SHOWN ON OPEN SET, 3" OD MUFFLER OUTLET WITH ENCLOSURE

NOTES:

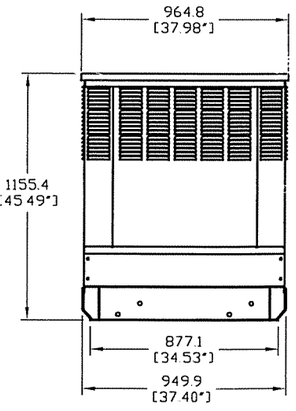
1. CONTROL PANEL MAY BE ROTATED 180° IN EITHER DIRECTION.
2. STANDARD 20A GFCI DUPLEX OUTLET - 120VAC REQUIRED.
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN AC CONNECTION PANEL.
4. EXHAUST MUFFLER SUPPORT BRACKETS SUPPLIED WITH OPTIONAL ENCLOSURE.
5. 12 VOLT NEGATIVE GROUND SYSTEM.
6. 2.5" I.D. FLEX EXHAUST, STANDARD WITH ENCLOSURE UNITS, OPTIONAL WITHOUT.
7. MAIN LINE CIRCUIT BREAKER (MLCB) AND AC LOAD LEAD CONNECTION.
8. REMOVABLE BLANK PANEL FOR OPTIONAL 2nd MAIN LINE CIRCUIT BREAKER.
9. OPTIONAL ENCLOSURE.
10. DOORS MUST BE ABLE TO OPEN 90 DEG. TO BE REMOVED.
11. STUB-UPS:
    STANDARD BASE TANK REQUIRES ALL STUB-UPS TO BE OUTSIDE OR IN THE REAR TANK STUB-UP AREA.
12. A OR A' IS THE STUB UP AREA UNDER THE MLCB, DEPENDING ON CIRCUIT BREAKER LOCATION. AREA B IS STUB UP AVAILABLE FOR UNITS WITH A BASE TANK.
13. STONE GUARD AND AIR DUCT ADAPTER STANDARD WITH OPEN SET ONLY.
14. SEE DRAWING 0C3850 FOR DUCT REMOVAL. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

*NOTE: DIMENSIONS TO THE CENTER OF EXHAUST FLANGE SHOULD BE USED AS A REFERENCE WHEN EXHAUST SYSTEM IS NOT ORDERED. APPLIES TO OPEN SET ONLY.

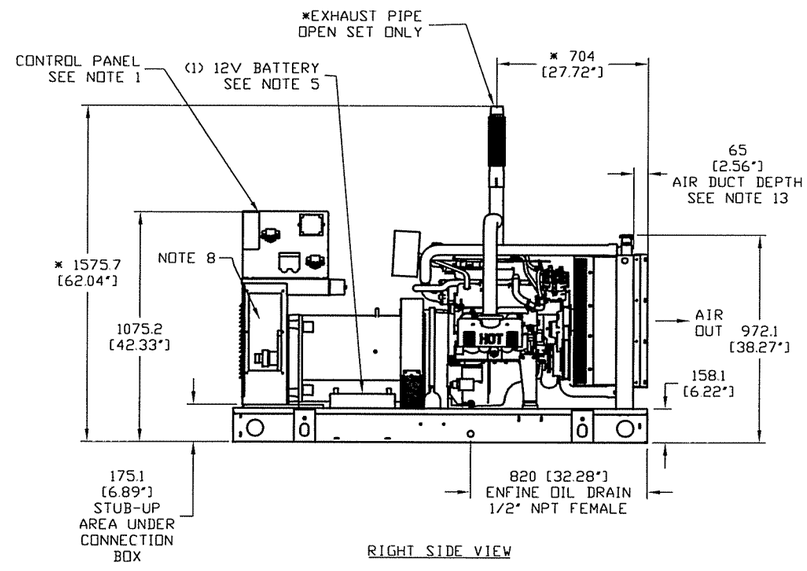


LEFT SIDE VIEW

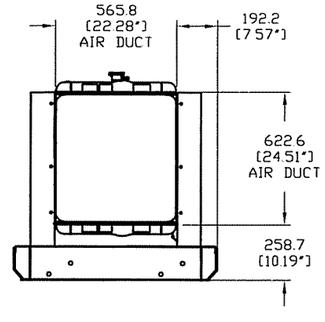
APPLICABLE TO 4.5L G3 35, 40 & 45KW



REAR VIEW



RIGHT SIDE VIEW



RADIATOR END VIEW WITH AIR DUCT ADAPTER OPTION

INSTALLATION DRAWING

SG 35, 40, 45 KW (UPSIZED 100 KW)

4.2L DIRECT DRIVE

ACOUSTIC ENCLOSURE

ISSUE DATE: 11/13/07

GENERAC POWER SYSTEMS
Waukesha
P.O. BOX 8
WAUKESHA, WIS. 53187

FILE NAME	0G7627-A.DWG	SIZE	B
SCALE	NTS	FIRST USE	4.2L G3
DWG NO.	0G7627	REV	A

GENERAL ELECTRIC NOTES

1) THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT PICK UP DELIVERY TO SITE, ERECTION OF TOWER, AND CRANE SET, ALL COSTS INCURRED

2) THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND REVIEWING EXISTING STRUCTURES OR UTILITIES THAT MIGHT BE LOCATED ON OR AROUND THE COMPOUND THAT COULD INTERFERE

3) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING LOCAL AUTHORITIES NECESSARY FOR INSPECTIONS IF REQUIRED, PLEASE PROVIDE AMPLE NOTICE

4) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PERSONS RESPONSIBLE FOR ANY MATERIALS TESTING, PLEASE PROVIDE AMPLE NOTICE

5) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH FINAL TEST RESULTS ON ALL MATERIALS TESTING IF ANY PROBLEMS ARE FOUND PRIOR TO FINAL RESULTS PLEASE NOTIFY A&E OR OWNER IMMEDIATELY

6) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJOINING PROPERTY, AND REPAIRING OR REPLACING WHAT IS NECESSARY TO OWNERS APPROVAL

7) THE CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE PRIOR TO CONSTRUCTION STARTING, ANY PROBLEMS OR CHANGES FOUND CONTACT A&E OR OWNER TO VERIFY

8) THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY LIGHTING ON THE TOWER AND CONTACTING PROPER AUTHORITIES IF ANY LIGHTING PROBLEMS OCCUR, ALL FINAL LIGHTING TO BE MOUNTED ON TOWER DURING CONSTRUCTION. NOTIFY OWNER WHEN TOWER HAS REACHED FINAL HEIGHT

9) THE CONTRACTOR IS RESPONSIBLE FOR ALL ONSITE WORK MEANS AND METHODS

10) CONTRACTOR, ANY CONTRACTOR EMPLOYEES OR REPRESENTATIVES, OR SUBCONTRACTOR, ANY SUB-CONTRACTOR EMPLOYEES OR REPRESENTATIVES, WILL CONFORM TO ALL LAWS AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, INCLUDING BUT NOT LIMITED TO, ALL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) STATUTES AND REGULATIONS AS WELL AS ALL OTHER FEDERAL STATE AND/OR LOCAL LAWS OR REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED BY CONTRACTOR

11) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SITE DRAINAGE, AND PROVIDING SILT AND EROSION CONTROL NECESSARY TO MAINTAIN AN RUN OFF

12) THE CONTRACTOR IS RESPONSIBLE FOR ALL SEED AND STRAW WORK NECESSARY TO REPAIR DAMAGED AREAS

13) CONTRACTOR TO GRADE SMOOTH OR REPAIR ANY POT HOLES OR DITCHING ON PROPERTY OR ROAD THAT HAS OCCURRED DURING CONSTRUCTION AT CONTRACTORS EXPENSE

14) CONTRACTORS RESPONSIBILITIES REGARDING BUILD OUT ON FIBREBOND EQUIPMENT SHELTERS TO INCLUDE:
- **INSTALLING THE DOOR CANOPY
- **INSTALLING EXTERIOR LIGHT ON WALL DETERMINED BY PROJECT SUPERVISOR AND PHOTOCELL REQUIREMENTS
- **INSTALLING INTRUDER ALARMS
- **CHECK OPERATIONS OF DOOR AND DOOR HARDWARE
- **ADJUST WEATHER STRIPPING ON DOORS AS NEEDED
- **INSPECT ROOF FOR DAMAGE AND POSSIBLE LEAKS
- **INSPECT INTERIOR FINISH FOR IMPERFECTIONS AND REPAIR AS NEEDED
- **CHECK OPERATION OF LIGHTS AND ELECTRICAL OUTLETS
- **CHECK OPERATION OF INTAKE AND EXHAUST LOUVERS AND ADJUST AS NEEDED
- **CHECK OPERATIONS OF ENVIRONMENTAL CONTROLS AND HVAC UNITS
- **INSTALL AND PAINT SHELTER TIE-DOWNS TO MATCH

15) INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, AND GENERATOR PAD

16) INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND

17) GC WILL BE RESPONSIBLE FOR ALL CRANE OPERATIONS IN ORDER TO SET FIBREBOND BUILDING. COORDINATE BUILDING DELIVERY DATE THROUGH BLUEGRASS CELLULAR

18) GC WILL BE RESPONSIBLE FOR OFF LOADING AND STACKING OF TOWER WHEN APPLICABLE

19) GC WILL BE RESPONSIBLE FOR MOUNTING ALL LINES AND ANTENNAS

20) GC WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ICE BRIDGE

21) GC WILL BE RESPONSIBLE FOR SCHEDULING PROPANE TANK DELIVERY & HOOK UP. PREFERRED SUPPLIERS ARE EMPIRE & AMERIGAS

22) GC WILL BE RESPONSIBLE FOR COORDINATING THE CLEANING OF THE INSIDE OF THE BUILDING WITH THE PROJECT SUPERVISOR AFTER THE SITE HAS BEEN TURNED OVER TO THE OPERATIONS DEPARTMENT AND ALL TURN UP PROCEDURES HAVE BEEN COMPLETED. THIS WILL INCLUDE SUPPLYING A 30 GALLON TRASH CAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN, AND DOOR MAT FOR BUILDING

23) GC TO VERIFY ALL BLUEGRASS CELLULAR EQUIPMENT DIMENSIONS & SPECIFICATIONS WITH MANUFACTURER'S DRAWINGS (FIBREBOND, GENERAC, EASTPOINTE, ETC.) PRIOR TO CONSTRUCTION. ADDRESS ANY ISSUES WITH PROJECT SUPERVISOR BEFORE WORK BEGINS

24) ALL WAREHOUSE MATERIAL (LINES, ANTENNAS, MOUNTING HARDWARE, GENERATOR, TOWER FOUNDATIONS KITS, ETC.) WILL NEED TO BE PICKED UP BY GC

25) GC WILL BE RESPONSIBLE FOR SCHEDULING GENERATOR START UP WITH CONTACT SCOTT ANDERSON (EVAPAR) 502-267-6315

26) T1 CONDUIT WILL NEED TO BE PLACED FROM POLE TO BUILDING (IF A MICROWAVE DISH IS USED, THE T1 CONDUIT WILL STILL BE INSTALLED FOR FUTURE USE)

27) GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCE

28) ALL TRASH AND DEBRIS TO BE REMOVED BY GC

29) GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND PAYING NECESSARY FEES REQUIRED

30) GC WILL BE RESPONSIBLE FOR SUPPLYING & INSTALLING PROTECTIVE END CAPS ON ANY EXPOSED THREADED ROD OR UNISTRUT USED ON SITE. VERIFY TYPE WITH PROJECT SUPERVISOR PRIOR TO INSTALLATION

31) GC WILL BE RESPONSIBLE FOR HAVING A CERTIFIED ELECTRICIAN HOOK UP THE BATTERIES (IMMEDIATELY) AFTER POWER HAS BEEN TURNED UP AT THE SITE, PREVENTING THE DELAY OF ANY WORK FOR OPERATIONS. THE GC MUST NOTIFY THE PROJECT SUPERVISOR IMMEDIATELY AT THIS TIME SO HE CAN COORDINATE A CELL TECH TO BE ONSITE WHEN THIS OCCURS

32) GC WILL BE RESPONSIBLE FOR RUNNING (CAT5) FROM THE GENERATOR ALARM PANEL MOUNTED ON THE SIDE OF THE TRANSFER SWITCH (BY THE CONTRACTOR) THROUGH THE TRANSFER SWITCH AND UP TO THE EXISTING CONDUIT BESIDE THE A/C POWER FAIL RELAY. THE (CAT5) WILL BE PULLED THROUGH EXISTING CONDUIT AROUND THE SHELTER AND EXTENDED TO THE ALARM BLOCK. THERE SHOULD BE A MINIMUM 3'-0" OF (CAT5) LEFT HANGING ON EACH END FOR THE CELL TECH TO HOOK UP THE GENERATOR ALARMS

33) GC MUST SUBMIT A COPY OF THE BUILDING PERMIT AND CONSTRUCTION SCHEDULE TO THE PROJECT SUPERVISOR PRIOR TO RECEIVING (NTP) TO BEGIN CONSTRUCTION
(NO EXCEPTIONS)

34) GC MUST DISPLAY FCC TOWER REGISTRATION NUMBER & EMERGENCY PHONE NUMBERS ON A 3'-0" X 4'-0" MINIMUM WOODEN BACKBOARD SOMEWHERE ON SITE LOCATION PRIOR TO BREAKING GROUND

GRADING & EXCAVATING NOTES

1) ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, ROADS, AND PARKING AREAS TO BE REPAIRED OR REPLACED TO OWNERS SATISFACTION

2) PREPARATION FOR FILL: REMOVAL OF ALL DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, TOPSOIL, VEGETATION, AND HARMFUL MATERIALS FROM SURFACE OF GROUND PRIOR TO PLOWING, STRIPPING, PLACING FILLS OR BREAKING UP OF SLOPED SURFACES GREATER THAN 1 VERTICAL TO 4 HORIZONTAL SO MATERIAL FOR FILL WILL BOND TO EXISTING SURFACE. WHEN AREA TO RECEIVE FILL HAS A DENSITY LESS THAN REQUIRED, BREAD UP GROUND SURFACE TO DEPTH REQUIRED, AERATE, MOISTURE - CONDITION, OR PULVERIZE SOIL AND RE-COMPACT TO REQUIRED DENSITY

3) BACK FILLING: -EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLODS OVER 2 1/2" MAXIMUM DIAMETER
-SHALL BE PLACED IN LAYERS OF 6" AND COMPACTED TO A 95% STANDARD PROCTOR, USE A 90% PROCTOR IN GRASSED LANDSCAPED AREAS WHERE REQUIRED
-SHALL BE APPROVED MATERIALS CONSISTING OF SANDY CLAY GRAVEL AND SAND, SOFT SHALE, EARTH OR LOAM. CONSULT WITH OWNER PRIOR TO FILL BEING ADDED

4) ALL MATERIAL FOR FILL TO BE APPROVED BY OWNER AND ALL COMPACTING TEST TO BE COMPLETED TO SPEC'S. ALL COMPACTING RESULTS TO BE TURNED OVER TO OWNER

5) AFTER COMPLETION OF BELOW GRADE EXCAVATION, AREA TO BE CLEANED AND CLEARED TO ANY UNSUITABLE MATERIALS, SUCH AS TRASH, DEBRIS, VEGETATION AND SO FORTH

6) ANY EXCAVATING IN WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE OF ANY LOOSE MATERIAL AND EXCESS GROUND WATER

7) IF SOUND SOIL IS NOT REACHED AT DESIGNATED EXCAVATION DEPTH, THE POOR SOIL IS TO BE EXCAVATED TO ITS FULL DEPTH AND EITHER REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION TO BE FILLED WITH THE SAME QUALITY CONCRETE SPECIFIED FOR THE FOUNDATION PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS

8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATIONS TO BE USED IF EXCAVATION EXCEEDED THE OVERALL REQUIRED DEPTH FOR STABILIZATION OF THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS

9) EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT

10) SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL (CROWNED FORMATION)

11) GC WILL BE RESPONSIBLE FOR REPAIR OF ALL AREAS DISTURBED DURING CONSTRUCTION (EXCAVATING ISSUES)

SYMBOLS LEGEND

- KEYNOTES
- INSPECTION SLEEVE/ GROUND ROD
- INSPECTION SLEEVE
- CAD WELD CONNECTION
- T — TRANSFORMER
- LA — LIGHTNING SUPPRESSER
- SWITCH DISCONNECT
- M — METER PACK
- P — POWER
- G — GAS
- W — WATER LINE
- SS — SANITARY SEWER
- T — TELEPHONE
- SSD — STORM SEWER DRAIN
- X — FENCE

"BEFORE YOU DIG"

ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER, "KENTUCKY DIG SAFELY (K.D.S.)" (TOLL FREE PHONE NO. 1-800-752-6007) FORTY EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS, AND WATERLINES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THESE PLANS AND ALL LOCAL REQUIREMENTS PRIOR TO ANY CONSTRUCTION

1-800-752-6007

KENTUCKY UNDERGROUND PROTECTION
CALL 2 WORKING DAYS
BEFORE YOU DIG

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
P (270) 737-3232 F (270) 769-5497

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DRAWN BY: JLYNCH LSIT
DATE: 05/20/10 SCALE 1"=100'

SHEET NUMBER
GENERAL NOTES

Turner Engineering & Land Surveying Co.

Glenn S. Turner P.E., P.L.S., President
Blake Durrett E.I.T.
Keith Higdon P.L.S.
Jeremy Lynch L.S.I.T.
Wesley McClure L.S.I.T.

A Division of New Banks, Inc.
5735 North Dixie Hwy.
Elizabethtown, Ky. 42701
Phone: 270-737-3232

Directions to the Site
From the County Seat of Casey County, Kentucky

DUNNVILLE SITE
Casey County, Kentucky

-Beginning at the intersection of Ky 49 and Ky 70 at the court house square in Liberty, Kentucky. Travel south on Ky 70 for 0.5 miles.
-Turn right on US 127. Travel 12.4 miles to Pittman Road.
-Turn Left on Pittman Road. Travel 0.2 miles to the "Y" in the road, taking the right side of the "Y" and traveling approx. 0.2 miles along the proposed gravel access road to the tower site.

4/26/10

Glenn S. Turner, Kentucky Professional Land Surveyor No. 2153 Date

Site Name: Dunnville

OPTION TO LEASE AND LEASE AGREEMENT

I.

OPTION TO LEASE REAL PROPERTY

THIS OPTION TO LEASE REAL PROPERTY (the "Option Agreement") is made and entered into this 12 day of March, 2010, by and between Doris Jean Wiles, an unmarried person, whose mailing address is P.O. Box 219, Dunnville, KY 42528 (the "Optionor (s)" and Cumberland Cellular Partnership, d/b/a Bluegrass Cellular, a Kentucky general partnership with principal office and place of business at 2902 Ring Road, Elizabethtown, KY 42701 (the "Optionee").

W I T N E S S E T H:

WHEREAS, the Optionor(s) is the owner of certain real property located in Casey County, **Kentucky** as more particularly described on Exhibit A attached hereto and incorporated herein by reference (the "Property"); and

WHEREAS, the Optionor(s) wishes to grant to the Optionee, and the Optionee wishes to obtain from the Optionor(s), an option to lease the Property upon the terms and conditions set forth herein;

NOW, THEREFORE, in consideration of the foregoing premises and for other good and valuable consideration, the mutuality, receipt and sufficiency of which are hereby acknowledged, the parties hereto do agree as follows.

1. In consideration of **One Thousand Eight Hundred Dollars and Zero Cents ($1,800.00)** paid by the Optionee to the Optionor(s) (the "Option Consideration"), the receipt of which is hereby acknowledged by the Optionor(s), the Optionor(s) hereby grants to the Optionee an exclusive and irrevocable option to lease the Property (the "Option"), upon the terms and conditions hereinafter set forth, upon the exercise of the Option at any time before 4:00 p.m. prevailing time on Sept 11, 2011, (the "Option Period") as set forth in Paragraph 5 thereof.

2. The parties hereto anticipate that the Property comprises approximately a **One Hundred Foot by One Hundred Foot** area, and that a right of way will be given by the Optionor(s) for the purposes of ingress and egress throughout the term of the lease. The Optionee shall obtain an accurate survey of the Property by a registered land surveyor licensed in the Commonwealth of Kentucky at the sole expense of the Optionee. A copy of the survey shall be provided to the Optionor(s). The description of the Property shall include the number of acres determined by the surveyor. The Optionee shall obtain said survey within a reasonable time following the date of the Option Agreement.

3. During the term of the Option, the Optionee may enter onto the Property at its own risk to obtain soil samples and to bore soil for the purposes of determining the suitability of the Property for a communications tower.

4. Upon the Optionee's proper exercise of the Option in accordance with Paragraph **5** hereof, the Optionor(s) shall be deemed to have immediately executed, acknowledged and delivered to the Optionee the Lease Agreement contained in Section II hereof. The description of the Property shall be that determined by the registered land surveyor in accordance with Paragraph 2 hereof.

5. If the Optionee elects to exercise the Option in accordance with the terms hereof, notice of such election shall be deemed sufficient if personally delivered or sent by registered or certified mail, return receipt requested, to the address of the Optionor(s) set forth in Paragraph **14** hereof.

6. The Optionor(s) agrees not to sell, lease or offer for sale or lease the Property during the term of this Option or any renewal or extension of the Option.

7. In the event the Optionee fails to exercise the Option as set forth herein (unless such failure is due to the discovery of a defect in the Property or other matter unsatisfactory to the Optionee), the Optionor(s) shall have the right to retain the Option Consideration.

8. The Optionee may assign this Option with written consent of the Optionor(s), which consent shall not be unreasonably withheld, and upon any assignment such assignee shall have all the rights, remedies and obligations as if it were the original Optionee hereunder. From and after any such assignment, the term "Optionee" shall refer to such assignee.

9. Each party hereto shall bear any and all of its own expenses in connection with the negotiation, execution or settlement of this Option.

10. Risk of loss with respect to the Property during the term of this Option and during the term of the lease shall be upon the Optionor(s). If, during the term of the Option, any portion of the Property shall be acquired by public authority under the right or threat of eminent domain, the Optionee may, at its sole option, either (i) exercise the Option, and in such event, all sums received from the public authority by the Optionor(s) by reason of the taking of a portion of the Property shall reduce the rent due under the lease, or (ii) terminate this Option and thereupon the Optionor(s) shall be obligated to return to the Optionee the full amount of the Option Consideration previously paid to the Optionor(s) in "good and collected funds."

11. The parties hereto represent to each other that neither has engaged any broker to represent their interests in connection with the transactions contemplated hereby, and each agrees to indemnify the other against any and all claims made by any brokers engaged or purported to be engaged by the other for brokerage commissions or fees in connection with the transactions contemplated hereby.

12. The Optionor(s) represents, warrants and covenants to the Optionee that the Optionor(s) has not caused or permitted, and shall not cause or permit, and to the best of Optionor(s)' knowledge no other person has caused or permitted any hazardous material (as defined by any applicable federal, state or local law, rule or regulation) to be brought upon, placed, held, located or disposed of at the Property. In the event any such contamination occurs for which the Optionee becomes legally liable, the Optionor(s) shall indemnify the Optionee against all claims, damages, judgments, penalties and costs and expenses, including reasonable attorneys' fees, which Optionee may incur.

13. This Option Agreement and the rights and obligations of the parties hereto shall be construed in accordance with the laws of the Commonwealth of Kentucky.

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s)shall be: **P.O. Box 219, Dunnville, KY 42528**; the Optionee's address shall be: **2902 Ring Road, Elizabethtown, KY 42701.** Any inquiry by the Optionor to the Optionee regarding the terms and conditions of the Option Agreement or Lease Agreement, or otherwise related to the Option Agreement or Lease Agreement, shall be made in writing and submitted to the attention of the Optionee's Lease Administrator at the above address.

15. The Optionee shall have the right, in its sole discretion, to record this Option in the Office of the Clerk of the County Court of Casey County, **Kentucky**.

II.

LEASE AGREEMENT

16. In the event the Optionee elects to exercise the Option to lease the Property, the terms of the Lease Agreement ("Lease Agreement" or "Lease") shall become immediately effective upon such exercise and shall be as follows.

1. The term of the Lease shall commence on the date that the Optionor(s) receives proper notice that the Optionee has exercised the Option, pursuant to Paragraph **5** therein. The initial term shall expire **five (5) year(s)** from the commencement date of the Lease Agreement and shall include **six (6) additional five (5)-year terms** per the Lease Agreement. Optionee may, by providing written notice at least sixty (60) days prior to the expiration of the original or any renewal Lease term, elect to unilaterally terminate this Lease at the end of any original or renewal Lease term. Such notice must be personally delivered or sent via registered or certified mail, return receipt requested, to the address of the Optioner(s) set forth in Paragraph 14 hereof. The Lease amount shall be adjusted at the end of each term by an increase of **12%**.

2. The Optionee shall pay to the Optionor(s) rent for the Property in the sum of Four Thousand Eight Hundred Dollars and Zero Cents ($4,800.00) yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph 14 hereof. Any check payment of the rent due under the Lease shall be payable to the order of Optionor(s).

3. The Optionee shall be entitled to use and occupy the Property for the purpose of erecting, maintaining and operating a communications tower and communications facilities thereon and for all such other uses as Optionee may, in its sole discretion, deem necessary in connection therewith.

4. The Optionor(s) shall be responsible for the payment of all real estate taxes which shall be assessed against the Property during the term of the lease. The Optionee shall pay all charges for heat, water, gas, electricity, sewer use charges and any other utility used or consumed on the Property. The Optionee shall, at its own cost and expense, maintain and keep in full force and effect during the term of the lease public liability insurance with coverage in the amount of at least one million dollars ($1,000,000.00) per person for bodily injury, disease, or death and shall maintain property insurance on any property the Optionee located on the Property.

5. The Optionee may assign the lease. The Optionee may sublet all or part of the space on the tower or ground space.

6. The Optionor(s) covenants that upon the Optionee's payment of the rent agreed upon herein, as well as Optionee's observing and performing all of the covenants and conditions contained in the Lease, the Optionee may peacefully and quietly enjoy the Property subject to the terms and conditions set forth in the Lease.

7. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.

8. Optionee's Payment of Taxes, Fees and Assessments. Optionee shall pay directly to the applicable federal, state or local governmental unit or agency ("Governmental Entity") or to Optionor if Optionor is invoiced by such Governmental Entity, all taxes, fees, assessments or other charges assessed by any Governmental Entity directly against Optionee's Equipment and/or Optionee's use of the Facility. Optionee shall also pay to Optionor Optionee's Pro Rata Share of all taxes, fees, assessments or charges including, but not limited to, personal property taxes attributable to Optionee's equipment and antenna(s), municipal franchise fees, use fees, municipal application fees, installation fees and increases thereof. "Pro Rata Share" shall mean the fraction of decimal equivalent of dividing one (1) by the total

number of then existing users occupying a tower on the last day of the applicable calendar year.

17. This Option and Lease Agreement contains the entire agreement between the parties hereto and no modification or amendment shall be binding upon any party unless made in writing and signed by each of the parties hereto.

18. Upon the termination or other end of this Lease Agreement, Optionee shall have the right to remove any and all of its property (real or personal) from the Property regardless of whether or not such property may be considered a fixture thereto.

19. Upon abandonment of the property, Optionee shall have thirty (30) days to dismantle and remove the cellular antenna tower and any/all equipment located on Optionor's property.

[Remainder of Page Intentionally Left Blank]

Site Name: Dunnville

EXECUTION OF AGREEMENT(S)

IN WITNESS WHEREOF, the parties hereto have set their hands and affixed their respective seals.

Doris Jean Wiles

Date: 3-12-10

By: Doris Jean Wiles
Property Owner (s)

("Optionor(s)")

Date: 5/11/10

By: Ron Smith
Authorized Representative

("Optionee")

STATE OF Kentucky

COUNTY OF Casey

The foregoing instrument was acknowledged before me this 12 day of March, 2010, by Doris Jean Wiles to be his/her free act and deed.

Jeffrey M Brewer

NOTARY PUBLIC STATE AT LARGE

My commission expires: 7-23-13

Site Name: Dunnville

STATE OF KENTUCKY

COUNTY OF HARDIN

The foregoing instrument was acknowledged before me this 11 day of March, 20 10, by **Ron Smith**, to be his free act and deed.

NOTARY PUBLIC STATE AT LARGE

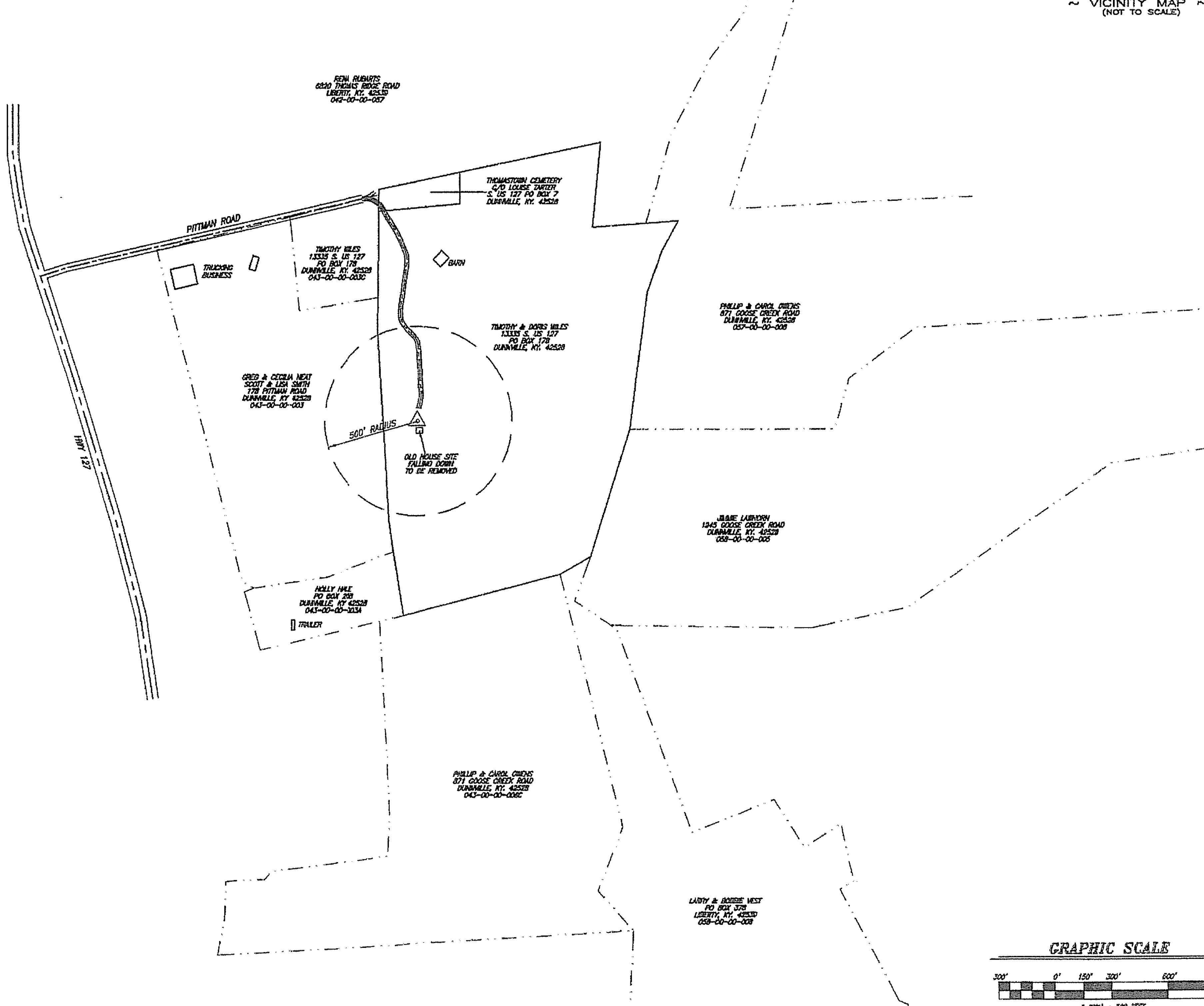
My commission expires: 1-21-13

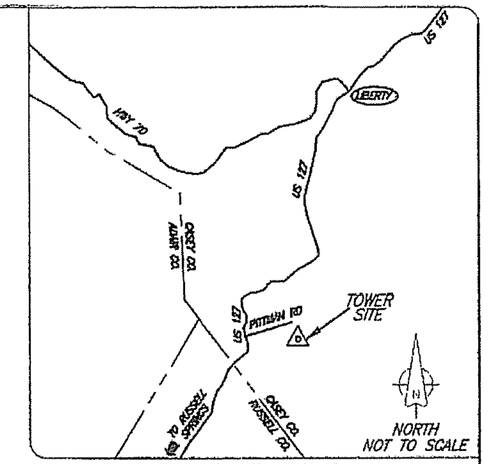
This instrument prepared by:

John E. Selent
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300

SITE: DUNNVILLE
500 FOOT RADIUS MAP FOR STRUCTURES AND LANDOWNERS CASEY COUNTY, KENTUCKY

NORTH





~ VICINITY MAP ~
(NOT TO SCALE)

SURVEYORS CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION SHOWN IS CORRECT TO THE BEST OF MY KNOWLEDGE; AND IT IS IN ACCORDANCE WITH THE RECORDS FOUND IN THE OFFICES OF THE PROPERTY VALUATION ADMINISTRATOR OF CASEY COUNTY ON MARCH 1, 2010.

4/12/10 — DATE OF SIGNATURE

[signature] — GLENN S TURNER, LICENSED PROFESSIONAL LAND SURVEYOR #2153

03/01/2010 — DATE OF FIELD SURVEY

03/29/2010 — DATE OF FINAL PLAT

STATE OF KENTUCKY
GLENN S. TURNER
2153
LICENSED PROFESSIONAL LAND SURVEYOR

REDUCED COPY

PLAT NOTE

THE LOCATION OF THE BOUNDARIES SHOWN ARE APPROXIMATE, AND THEY ARE BASED UPON THE AERIAL PHOTOGRAPHS AND INFORMATION ON FILE IN THE OFFICES OF THE PROPERTY VALUATION ADMINISTRATOR OF CASEY COUNTY, KENTUCKY

GRAPHIC SCALE

300' 0' 150' 300' 600' 900'

1 INCH = 300 FEET

~ REVISIONS ~

NO.	DATE	DESCRIPTION	BY

TURNER ENGINEERING, INC
DIVISION OF NEW BANKS, INC.
5735 NORTH DIXIE HIGHWAY
ELIZABETHTOWN, KY 42701
PH. (270) 737-3232 FAX (270) 769-5497

500 FOOT RADIUS MAP
350 PITTMAN ROAD
DUNNVILLE, KENTUCKY 42528

PREPARED FOR:
BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42701

DRWN BY: J LYNCH	CHKD BY: G TURNER
DATE: 03/29/2010	AREA:
SCALE: 1"=300'	BILL NO: 09-DUNNVILLE
DRAWING: C:\Drawings\BCCELL\2009\DUNNVILLE SITE	
PVA #: 045-00-00-005	
SHEET 1 OF 1	

Turner Engineering & Land Surveying Co.

Glenn S. Turner P.E., P.L.S., President
Blake Durrett E.I.T.
Keith Higdon P.L.S.
Jeremy Lynch L.S.I.T.
Wesley McClure L.S.I.T.

A Division of New Banks, Inc.
5735 North Dixie Hwy.
Elizabethtown, Ky. 42701
Phone: 270-737-3232

Landowner and Adjacent Landowner List

Bluegrass Cellular
DUNNVILLE SITE
Casey County, Kentucky

Timothy & Doris Wiles
13335 S. US127 PO Box 178
Dunnville, Ky. 42528

Timothy Wiles
13335 S. US127 PO Box 178
Dunnville, Ky. 42528

Holly Hale
PO Box 208
Dunnville, Ky. 42528

Larry & Bobbie Vest
PO Box 378
Liberty, Ky. 42539

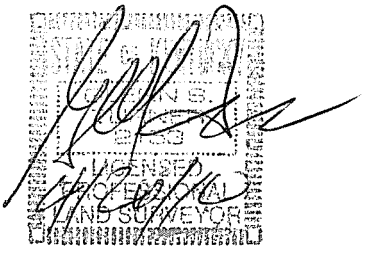
Thomastown Cemetery
C/O Louise Tarter
S. US127 PO Box 7
Dunnville, Ky. 42528

Rena Rubarts
6820 Thomas Ridge Road
Liberty, Ky. 42539

Greg & Cecilia Neat
Scott & Lisa Smith
178 Pittman Road
Dunnville, Ky. 42528

Phillip & Carol Owens
871 Goose Creek Road
Dunnville, Ky. 42528

Jimmie Lawhorn
1245 Goose Creek Road
Dunnville, Ky. 42528



Glenn S. Turner, Kentucky Professional Land Surveyor No. 2153 Date

May 17, 2010

Timothy and Doris Wiles
13335 U.S. 127
P.O. Box 178
Dunnville, Kentucky 42528

Public Notice

Bluegrass Wireless LLC is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

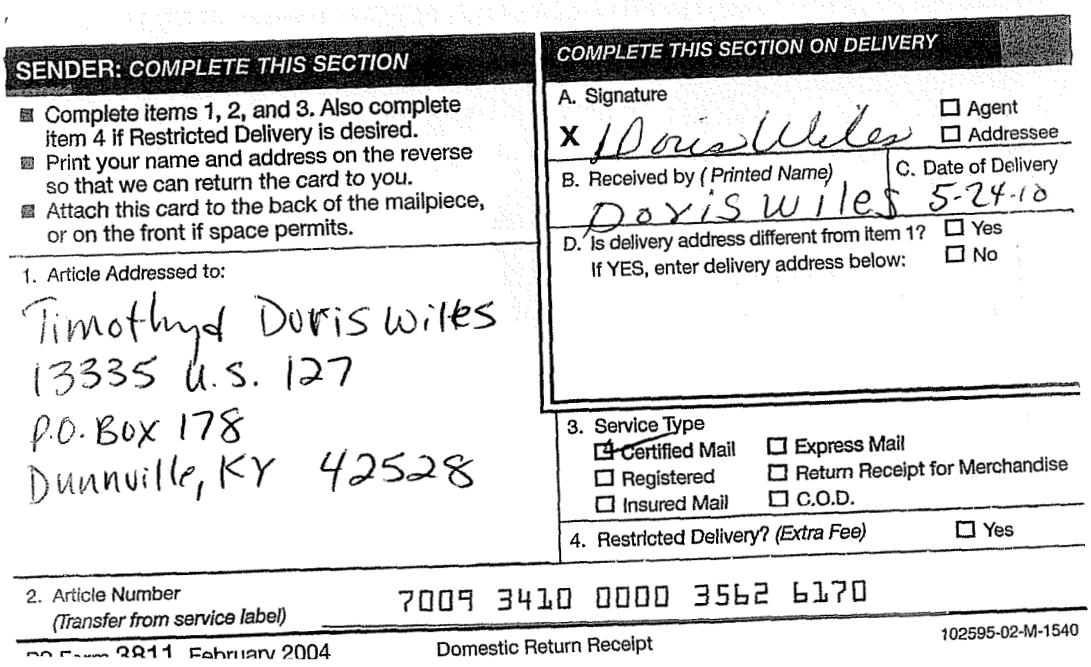
Bluegrass Wireless LLC is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240-foot tower and an equipment shelter to be located at 350 Pittman Road, Dunnville, Kentucky, 42528. A map showing the location is attached.

The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:

Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.myblueworks.com)



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Timothy & Doris Wiles
13335 U.S. 127
P.O. Box 178
Dunnville, KY 42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Doris Wiles ☐ Agent ☐ Addressee

B. Received by (Printed Name) Doris Wiles C. Date of Delivery 5-24-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6170

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Timothy Wiles
13335 Highway S. U.S. 127
P.O. Box
Dunnville, Kentucky 42528

Public Notice

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.myblueworks.com)

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Timothy Wiles
13335 Highway S. U.S. 127
P.O. Box 178
Dunnville, KY 42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Doris Wiles ☐ Agent ☐ Addressee

B. Received by (Printed Name) Doris Wiles
C. Date of Delivery 5-24-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6163

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Holly Hale
P.O. Box 208
Dunnville, Kentucky 42528

Public Notice

Bluegrass Wireless LLC is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Holly Hale
P.O. Box 208
Dunnville, KY
42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Holly Price ☐ Agent ☐ Addressee

B. Received by (Printed Name) Holly Price | C. Date of Delivery 5-21-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
~~☑ Certified Mail~~ ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6156

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Larry and Bobbie Vest
P.O. Box 378
Liberty, Kentucky 42539

Public Notice

Bluegrass Wireless LLC is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.mvblueworks.com)

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Larry and Bobbie Vest
P.O. Box 378
Liberty, KY 42539

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Tommy Vest ☐ Agent ☒ Addressee

B. Received by (Printed Name) Tommy Vest
C. Date of Delivery 5-21-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

1

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6149

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Thomastown Cemetery
C/O Louise Tarter
S. U.S. 127
P.O. Box 7
Dunnvlle, Kentucky 42528

Public Notice

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

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SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Thomastown Cemetery
C/O Louise Tarter
S. U.S. 127
P.O. Box 7
Dunnville, KY 42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by (Printed Name) TOMMY TARTER C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6132

May 17, 2010

Rena Rubarts
6820 Thomas Ridge Road
Liberty, Kentucky 42539

Public Notice

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P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

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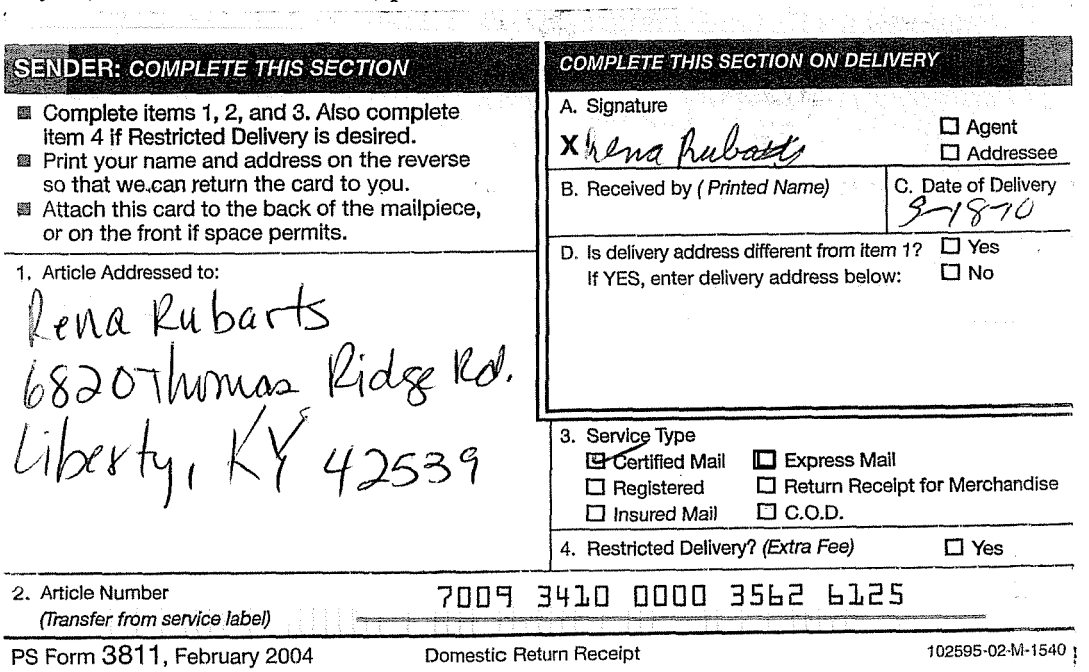

SENDER: COMPLETE THIS SECTION

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1. Article Addressed to:
Rena Rubarts
6820 Thomas Ridge Rd.
Liberty, KY 42539

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Rena Rubarts ☐ Agent ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery
9-18-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6125

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Greg and Cecilia Neat
Scott and Lisa Smith
178 Pittman Road
Dunnville, Kentucky 42528

Public Notice

Bluegrass Wireless LLC is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

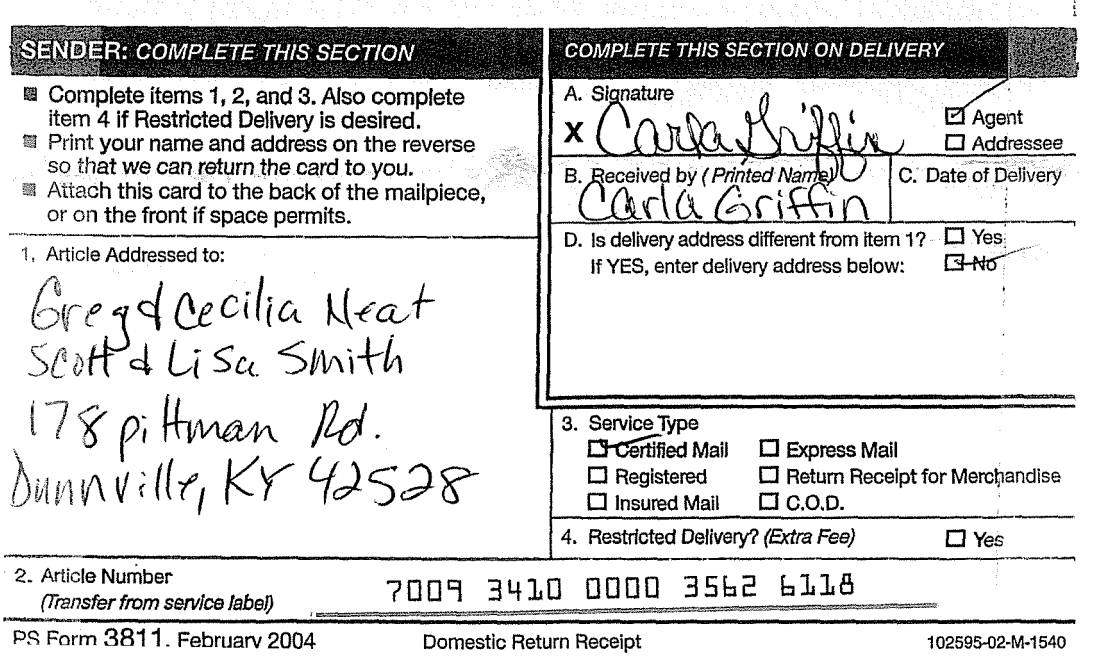
Bluegrass Wireless LLC is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240-foot tower and an equipment shelter to be located at 350 Pittman Road, Dunnville, Kentucky, 42528. A map showing the location is attached.

The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:

Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.myblueworks.com)



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Greg & Cecilia Neat
Scott & Lisa Smith
178 Pittman Rd.
Dunnville, KY 42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Carla Griffin ☑ Agent ☐ Addressee

B. Received by (Printed Name) Carla Griffin C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6118

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Phillip and Carol Owens
871 Goose Creek Road
Dunnville, Kentucky 42528

Public Notice

Bluegrass Wireless LLC is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

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Public Service Commission of Kentucky
P.O. Box 615
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Please refer to case number 2010-00196 in your correspondence.

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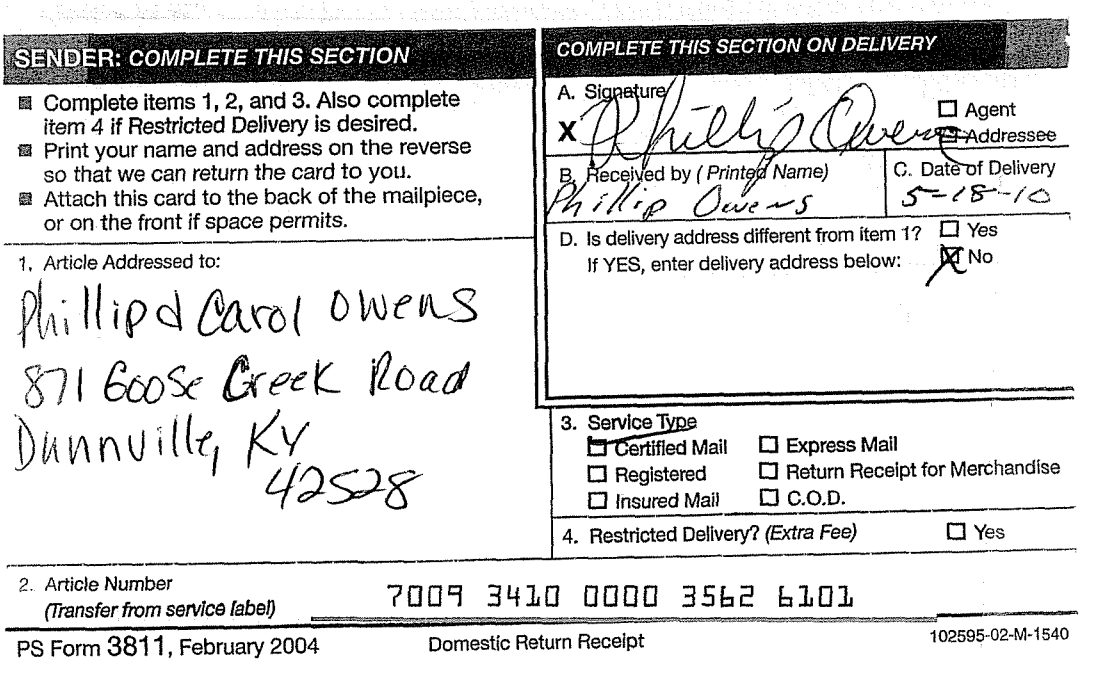


SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Phillip & Carol Owens
871 Goose Creek Road
Dunnville, KY
42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Phillip Owens ☐ Agent ☐ Addressee

B. Received by (Printed Name) Phillip Owens
C. Date of Delivery 5-18-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6101

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

May 17, 2010

Jimmie Lawhorn
1245 Goose Creek Road
Dunnville, Kentucky 42528

Public Notice

Bluegrass Wireless LLC is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

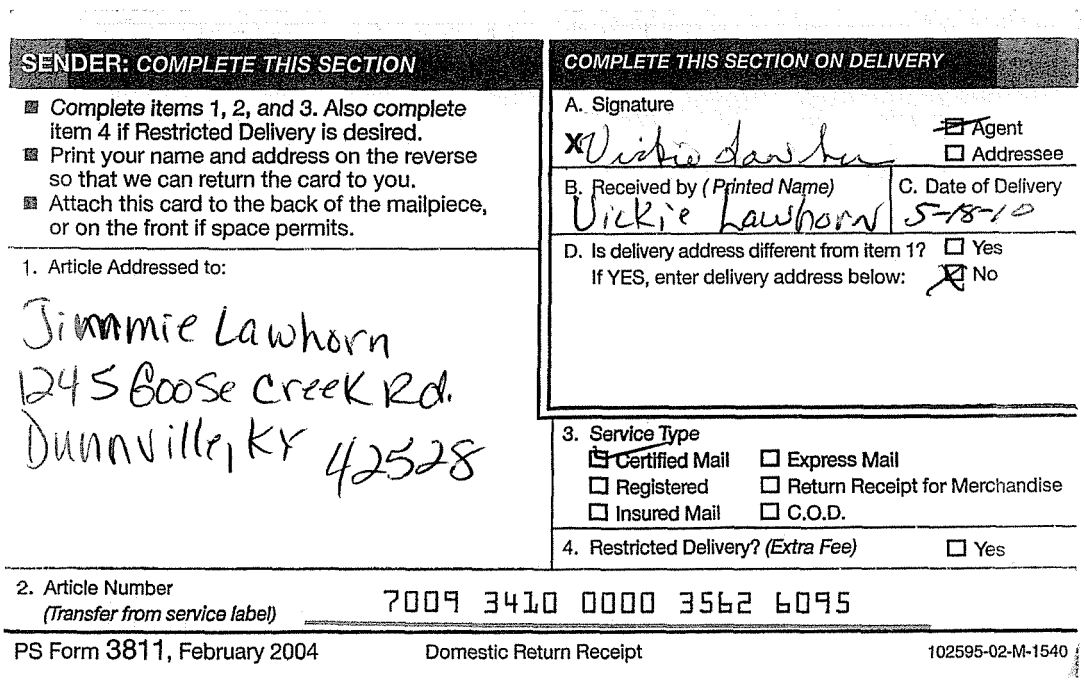
Bluegrass Wireless LLC is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240-foot tower and an equipment shelter to be located at 350 Pittman Road, Dunnville, Kentucky, 42528. A map showing the location is attached.

The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:

Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00196 in your correspondence.

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.mybluewks.com)



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Jimmie Lawhorn
1245 Goose Creek Rd.
Dunnville, KY 42528

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Vickie Lawhorn ☒ Agent ☐ Addressee

B. Received by (Printed Name) Vickie Lawhorn
C. Date of Delivery 5-18-10

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 3562 6095

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

Dinsmore & Shohl LLP
ATTORNEYS

Kerry W. Ingle
(502) 540-2354 (Direct Dial)
kerry.ingle@dinslaw.com

May 17, 2010

Via Certified Mail
Honorable Ronald Wright
Casey County Judge Executive
County Courthouse
P.O. Box 306
Liberty, Kentucky 42539-6154

Re: Application of Bluegrass Wireless LLC d/b/a Bluegrass Cellular for a Certificate of Public Convenience and Necessity to construct a cellular tower to be located at 350 Pittman Road, Dunnville, Kentucky, 42528, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2010-00196

Dear Judge Wright:

Bluegrass Wireless LLC ("Bluegrass Wireless") is a Kentucky limited liability company that markets its services as Bluegrass Cellular. Bluegrass Wireless is applying to the Public Service Commission of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular radio telecommunications service in rural service area ("RSA") #6 in Casey County. The facility will include a 240 foot tower and an equipment shelter to be located at 350 Pittman Road, Dunnville, Kentucky, 42528. A map showing the location of the proposed new facility is enclosed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2010-00196 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP

Kerry W. Ingle
Paralegal

Enclosure

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Honorable Ronald Wright
Casey County Judge Exec.
County Courthouse
P.O. Box 306
Liberty, KY 42539-6154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Judy Allen ☐ Agent ☒ Addressee

B. Received by (Printed Name) Judy Allen
C. Date of Delivery 5-19-10

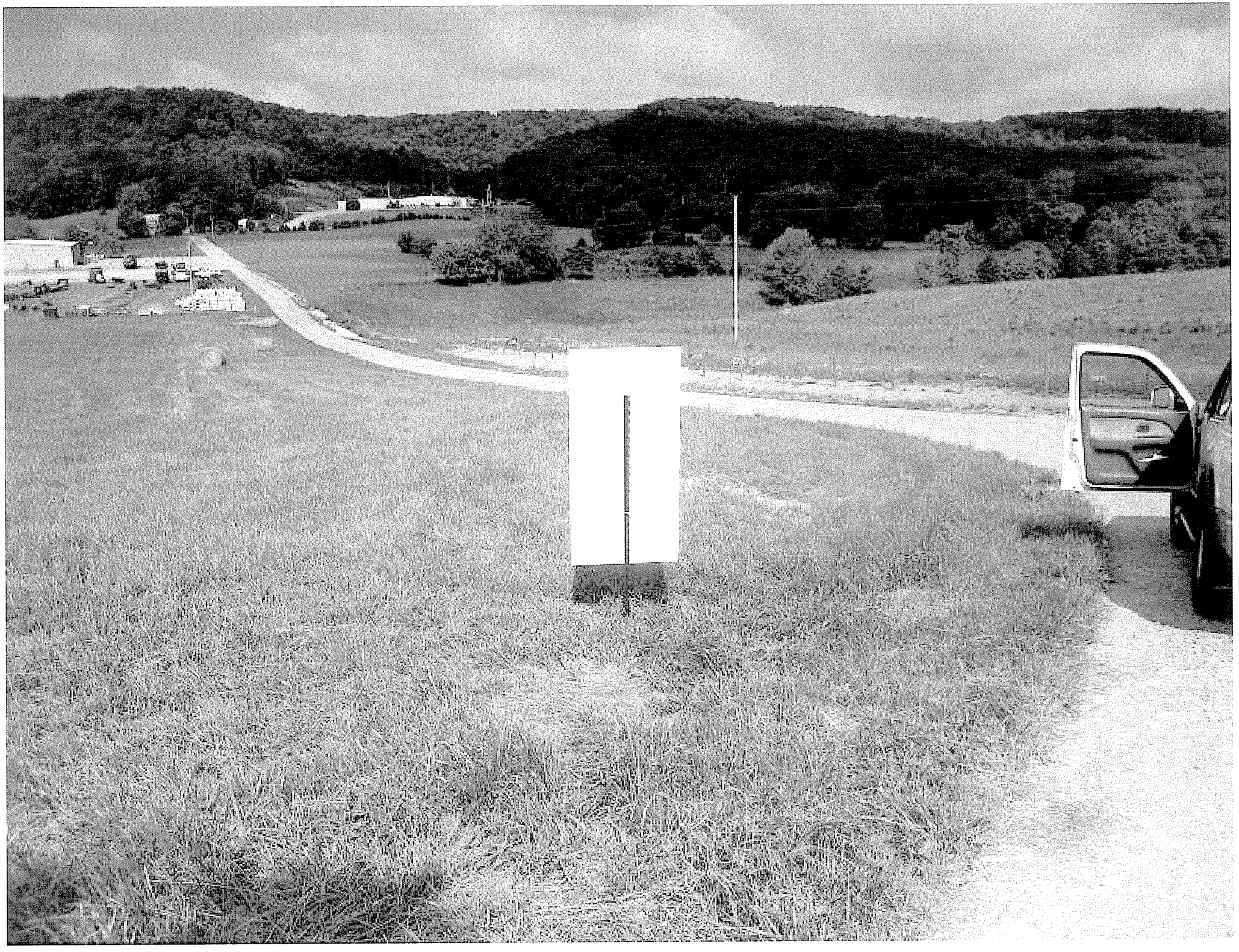
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
~~☐ Certified Mail~~ ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7009 3410 0000 3562 6088

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540




PUBLIC NOTICE
Bluegrass Wireless LLC
proposes to
construct a cellular
communications
TOWER
near this site. If you have any
questions please contact:
Bluegrass Wireless LLC
P.O. Box 5002
2992 Ring Road
Elizabethtown, KY 42701
or
Executive Director,
Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
Case #2010-00196
in your correspondence.


PUBLIC NOTICE
TOWER


PUBLIC NOTICE
Bluegrass Wireless LLC
proposes to
construct a cellular
communications
TOWER
on this site. If you have any
questions please contact:
Bluegrass Wireless LLC
P. O. Box 5012
2902 Ring Road
Elizabethtown, KY 42701
or
Executive Director,
Public Service Commission
211 Sower Boulevard
P. O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
Case #2010-00196
in your correspondence.

The Casey County News

P.O. Box 40
720 Campbellsville Street
Liberty, Kentucky 42539

Randall Vaught, Publisher *Donna Carman, Editor*

Phones: 606-787-7171 or 606-787-9466
FAX: 606-787-8306
www.caseynews.net

AFFIDAVIT OF PUBLICATION
State of Kentucky
Casey County

Terri Lee, bookkeeper of The Casey County News, Liberty, Ky., the official newspaper, deposes and says that the foregoing Public Notice was published in the newspaper on the following date(s) 5-19-10 & 5-26-10.

Terri Lee
(Signature)

inmates at local correctional facilities. Corrections experience is preferred but not required. Experience in food service is a must. Supervisors are required to monitor inmates in the cooking, baking, prepping and serving of all food items. Inmates are responsible for the cleaning of the entire kitchen along with trays, cups, pots & pans or any other items/equipment used in the kitchen. Qualified applicants will be required to work weekends and Holidays. Must be able to pass a background check and be 18 years of age. We offer competitive wages and benefits package. We are an equal opportunity employer. Call (270) 766-1121

KY HEALTH TRAINING: Certified Clinical Medical Assistant, EKG Technician, Nurse Aide Training, Phlebotomy training. Lexington & Georgetown. Day, Night, Weekend classes. 859-963-2901, 888-274-2018, www.kyhealthtraining.com

NOW ACCEPTING resumes for part-time position at the Casey County Public Library. Resumes may be given in person during regular business hours, emailed to orders@caseylibrary.org or mailed to the library at 238 Middleburg Street, Liberty, Ky. 42539. The Casey County Public Library is an equal opportunity employer.

SLT NEEDS CDL-A TEAM drivers with HazMat. $2,000 Bonus. Teams split $.68 for all miles. O/O teams paid $1.64-$2.00 per mile. 1-877-253-2897/ 1-800-835-9471.

WANTED: LIFE AGENTS. Earn $500 a day, Great agent benefits. Commissions paid daily, Liberal underwriting. Leads, Leads, Leads. LIFE INSURANCE, License Required. Call 1-888-713-6020.

110 Mobile Home Rentals

2 BEDROOM mobile home, 2 miles from Liberty, washer and dryer, air, $250 month. 606-787-1917 or 303-1200 (cell).

NICE 2 BEDROOM, 1 bath, central heat/air, Ky 910, references & deposit required. (606) 787-8534 or 787-6985

115 Mobile Home Sales

*FIRST TIME HOME BUYERS. Government homes for sale, easy, quick move in. Call 270-769-3194.

*LOOKING FOR YOUR DREAM HOME, we can make it happen for you. Easy, quick, hassle free. Call 270-769-0534.

ALMOST USED doublewide. 606-864-5804.

ATTN: LAND OWNERS - Turn key home buying/purchase packages. Use your deed for 3, 4 & 5 bedroom homes, custom built. We do it all. 1-866-514-7221.

DOUBLEWIDE 4 bedroom,

PUBLIC NOTICE

An ordinance amending the Casey County budget for fiscal year 2009-2010, to include unanticipated receipts from County Road Aid and E-911 Telephone Fees in the amount of $291,077.00 and increasing expenditures in the area of Contingency Reserve for Transfer was adopted by the Casey County Fiscal Court on June 7, 2010. A copy of the adopted ordinance with full text is available for public inspection at the office of the county judge/ executive during normal business hours.

PUBLIC NOTICE

Heather McCormick Torres, Fredia's, residing at 387 Brook Drive, Liberty, KY 42539, has filed a petition with the county of Casey for a permit to operate a place of entertainment on real property owned by Timmy Strong. The application is available for inspection at the Casey County Clerk's Office, at the old courthouse in Liberty, Kentucky, during normal business hours.

A public hearing for the petition has been scheduled for June 11, 2010 at 10:00 a.m. in the courtroom of the Casey County Courthouse, Liberty, Kentucky. Any person who desires to oppose the permit must be file written allegations with the Casey County Clerk's office showing just cause as to why the petition should not be granted before commencement of the hearing.

Eva S. Miller
Casey County Clerk

NON-DISCRIMINATION STATEMENT

Duo County Telephone Cooperative Corporation, Inc. is the recipient of Federal financial assistance from the U.S. Department of Agriculture (USDA). The USDA prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with diabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue SW, Washington, D.C. 20250-0703, or call (800) 787-8821 (voice) and select Option 2, or (202)692-0107 (TDD).

USDA is an equal opportunity provider, employer and lender.

NOTICE

Bluegrass Wireless LLC is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service are #6 of hte Commonwealth of Kentucky (Dunnville Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 350 Pittman Road, Dunnville, Kentucky, 42528. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2010-00196 in your correspondence.

PUBLIC NOTICE

BUDGET HEARING REGARDING PROPOSED USE OF COUNTY ROAD AID AND LOCAL GOVERNMENT ECONOMIC ASSISTANCE (LGEA) FUNDS.

A public hearing will be held by Casey County at the courthouse on June 7, 2010 at 4:45 for the purpose of obtaining citizens comments regarding the possible uses of the County Road Aid (CRA) and Local Government Economic Assistance (LGEA) Funds.

All interested persons in Casey County are invited to the hearing to submit verbal or written comments on possible uses of the CRA and LGEA Funds. Any person(s) who cannot submit written comments or attend the public hearing but wish to submit comments should call the office of the county judge/executive at 606-787-8311 by 4:00 p.m. on so the arrangements can be made to secure their comments.

PUBLIC NOTICE

The second reading and adoption of the Casey County proposed budget ordinance for fiscal year 2010-2011 is scheduled to be held at the courthouse on June 7, 2010 at 5:00 p.m.

BUDGET SUMMARY

An Ordinance Relating to the Annual Budget and Appropriations.

Public Notice

The Casey County Board of Education will accept proposals for architectural engineering services for a concessions building and the addition of a restroom facility. Interested parties should contact Kevin Stephens, Director of Facilities, at 1922 North U.S. Rt. 127, Liberty, KY 42539 or by telephone at 606-787-6941 Ext. 2233 for additional information. Letters of interest will be accepted until June 4, 2010.

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COMMONWEALTH OF KENTUCKY
29TH JUDICIAL CIRCUIT
CASEY CIRCUIT COURT
CIVIL ACTION NO. 09-CI-00078

CITIMORTGAGE, INC. PLAINTIFF

VS. NOTICE OF COMMISSIONER'S SALE

MARVIN HINDS, KATHERINE HINDS
and CITIFINANCIAL, INC. DEFENDANTS

Pursuant to a Judgment and Order of Sale entered on April 8, 2010, by the Casey Circuit Court this action, the undersigned will sell to the highest and best bidder at public auction the following described real property located in Casey County, Kentucky:

A certain tract or parcel of land lying in Casey County, Kentucky, Co the waters of Reynolds Creek and being more particularly described as follows:

Beginning at a post on the north edge of right of way of Highway No. 49; thence North 26 degrees East 183 feet to a stake; thence South 63 3/4 East 119 to a stake; thence South 26 degrees West 183 feet to the edge of old county road; thence North 63 3/4West 119 feet to the beginning, containing 1/2 acre, more or less.

SOURCE OF TITLE: Being the same property conveyed to Marvin Hinds and Katherine Hinds, husband and wife, from Gary Lynn, a single person, by Deed dated January 31, 2006 and recorded in Deed book 239, page 638, in the Office of the Casey County Court Clerk.

DATE OF SALE: Saturday, May 22, 2010, at 11:30 a.m.

PLACE OF SALE: Casey County Courthouse, Liberty, Kentucky.

The property will be sold to the highest and best bidder(s) on terms of full cash on date of sale, or upon credit of thirty (30) days and the purchaser(s) shall be required to execute a bond WITH A GOOD AND SUFFICIENT SURETY THEREON for the purchase price, said bond to bear interest at the rate of 12% per annum from date of sale until paid, and the bond shall have the same force and effect as a Judgment and shall remain and be a lien on the real property until fully paid. The purchaser(s) may pay the purchase price money bond with accrued interest at any time before maturity.

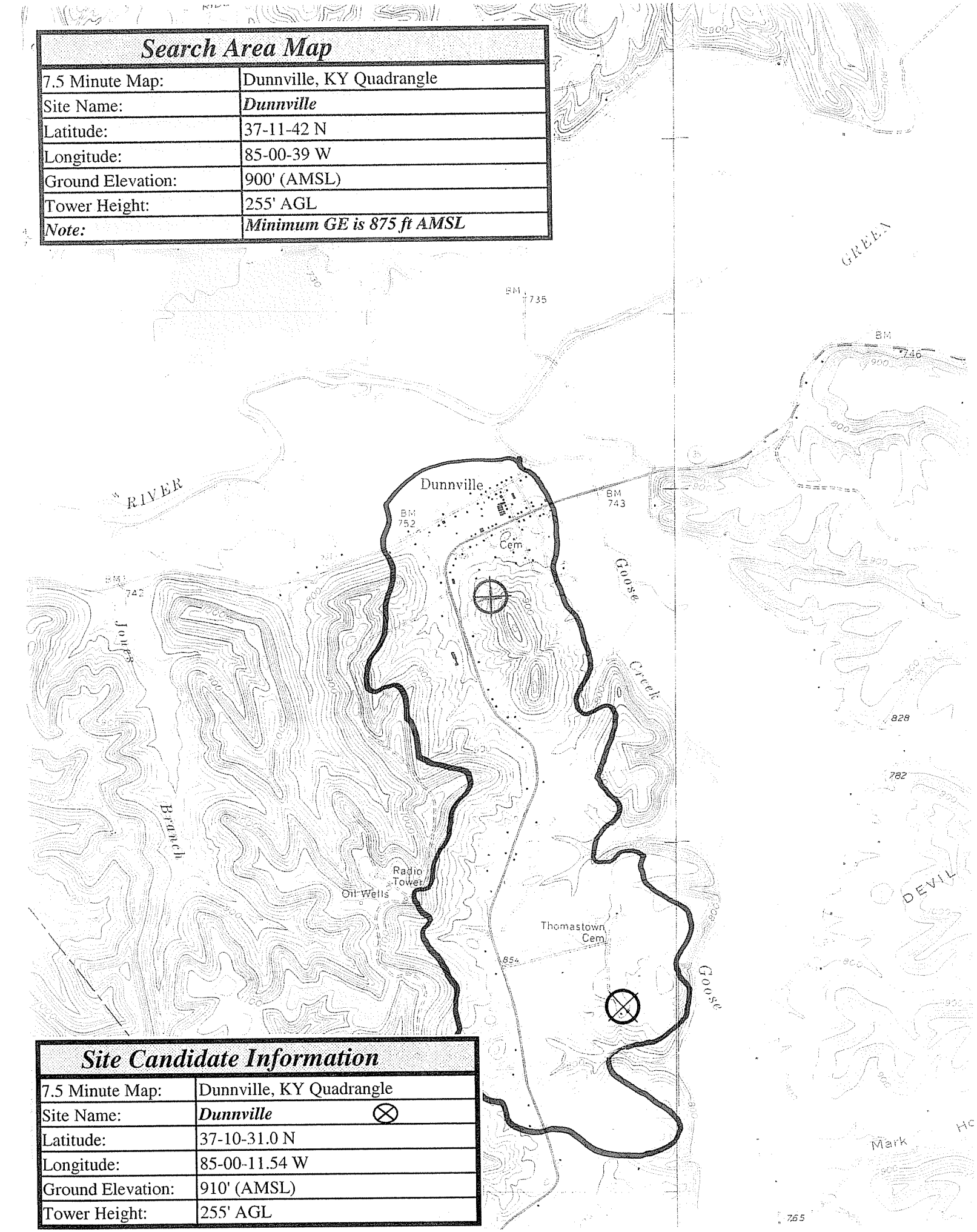
The property shall otherwise be sold free and clear of any right, title and interest of all parties to the action and of their liens and encumbrances thereon except easements and restrictions of record in the Casey County Court Clerk's Office, Liberty, Kentucky, and any right of redemption which may exist in favor of the Defendants. All delinquent ad valorem taxes, if any, interest and penalties will be paid out of the proceeds of the sale. The purchaser(s) shall be responsible for the 2010 ad valorem taxes.

Possession will be given to the purchaser(s) with the delivery of the deed of conveyance thereto. The purchaser(s) will be responsible for all risks of loss to the premises upon acceptance of their bid at the sale.

The purpose of this sale is to satisfy a judgment in the sum of $67,957.15 plus interest at the rate of $12.89 per diem from April 4, 2010, until paid; plus court costs, delinquent taxes, and other approved expenses.

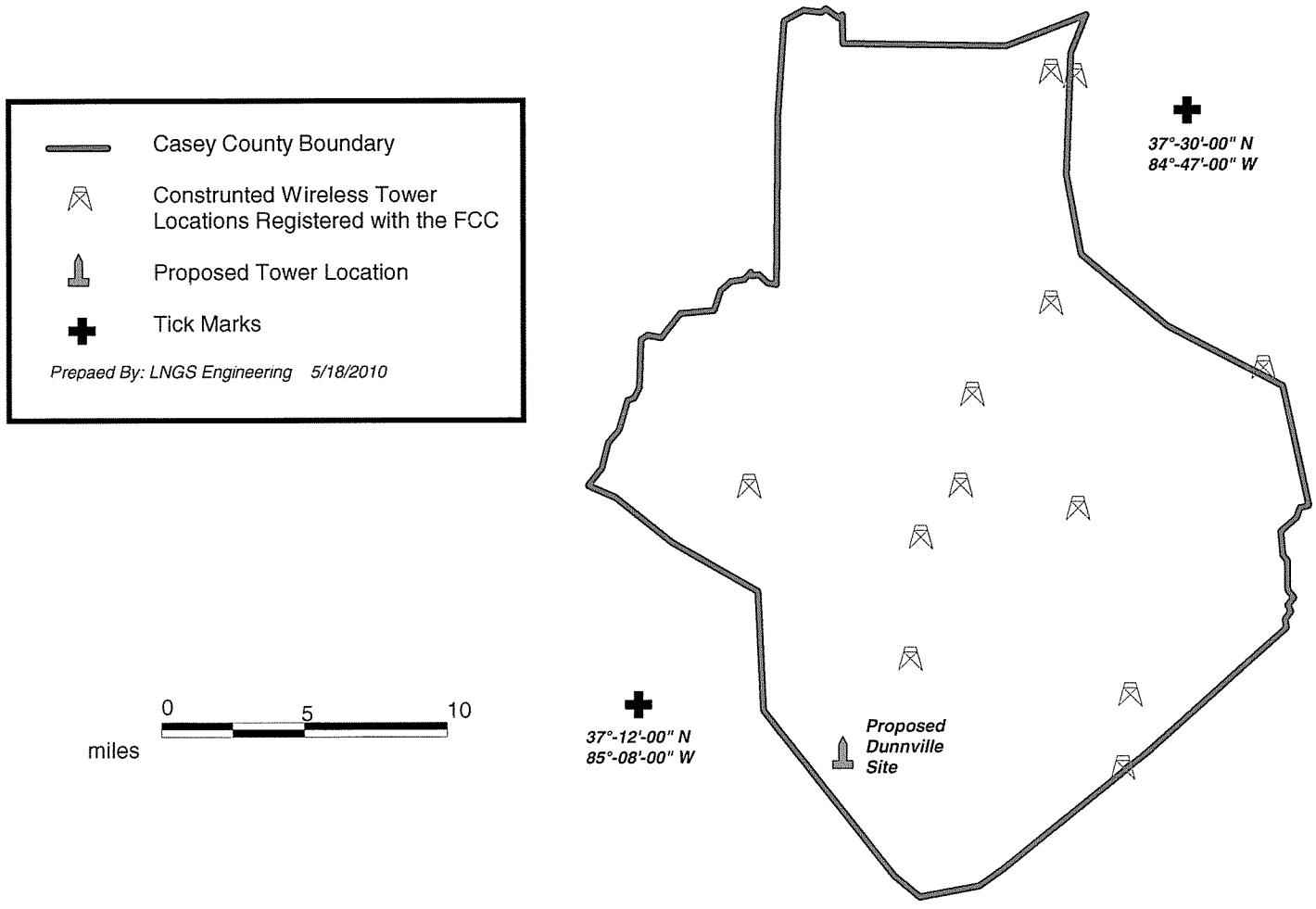
DONALD A. THOMAS
MASTER COMMISSIONER
CASEY CIRCUIT COURT

COMMONWEALTH OF KENTUCKY



Search Area Map	
7.5 Minute Map:	Dunnville, KY Quadrangle
Site Name:	***Dunnville***
Latitude:	37-11-42 N
Longitude:	85-00-39 W
Ground Elevation:	900' (AMSL)
Tower Height:	255' AGL
Note:	***Minimum GE is 875 ft AMSL***

Site Candidate Information	
7.5 Minute Map:	Dunnville, KY Quadrangle
Site Name:	***Dunnville*** ⊗
Latitude:	37-10-31.0 N
Longitude:	85-00-11.54 W
Ground Elevation:	910' (AMSL)
Tower Height:	255' AGL


Casey County Boundary
Construnted Wireless Tower Locations Registered with the FCC
Proposed Tower Location
Tick Marks
Prepaed By: LNGS Engineering 5/18/2010
0
5
10
miles
37°-30'-00" N
84°-47'-00" W
37°-12'-00" N
85°-08'-00" W
Proposed Dunnville Site

Information on Towers Registered with the FCC in Casey County and 1/2 Mile Area Outside of the County Boundary

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1041295	37-31-02 N	84-51-16 W	Moreland, KY	TEXAS EASTERN COMMUNICATIONS, INC.
1044043	37-10-03 N	84-49-30 W	Mintonville, KY	KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = WKSO TV
1031516	37-22-10 N	84-44-06 W	Kings Mountain, KY	NORFOLK SOUTHERN CORP. DBA = SAME
1042217	37-21-23 N	84-55-13 W	Harrodsburg, KY	Global Tower, LLC
1042417	37-21-23 N	84-55-13 W	Liberty, KY	Global Tower, LLC
1043347	37-18-37 N	84-55-40 W	Liberty, KY	NEW CINGULAR WIRELESS PCS, LLC
1044720	37-18-36 N	85-03-45 W	Clementsville, KY	COLUMBIA NETWORK SERVICES CORPORATION
1044843	37-31-10 N	84-52-10.8 W	Liberty, KY	KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS
1234155	37-17-54.9 N	84-51-11.5 W	Lawhorn Hill, KY	East Kentucky Power Cooperative, Inc.
1244845	37-24-8.4 N	84-52-12.5 W	Hustonville, KY	NEW CINGULAR WIRELESS PCS, LLC
1263764	37-13-21.9 N	84-57-36.6 W	Liberty, KY	Shared Towers, LLC
1264776	37-12-15.8 N	84-49-13.1 W	Liberty, KY	Global Tower, LLC
1264914	37-17-3.1 N	84-57-12.1 W	Liberty, KY	Cumberland Cellular Partnership