COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF KENTUCKY RSA #3 CELLULAR GENERAL PARTNERSHIP FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A CELL SITE (SOUTH HILL) IN RURAL SERVICE AREA #3 (BUTLER) OF THE COMMONWEALTH OF KENTUCKY

CASE NO. 2009-00435

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (SOUTH HILL)

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3"), 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 South Hill cell site in and for rural service area ("RSA") #3 of the Commonwealth of Kentucky, namely the counties of Allen, Breckinridge, Butler, Edmonson, Grayson, Hancock, Logan, McLean, Meade, Muhlenberg, Ohio, Simpson, Todd and Warren, Kentucky.

1. As required by 807 KAR 5:001 Sections 8(l) and (3), and 807 KAR 5:063, Kentucky RSA #3 states that it is a Kentucky general partnership whose full name and post office address are: Kentucky RSA #3 Cellular General Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701.

2. Pursuant to 807 KAR § 1 (1)(b), a copy of the applicant's applications to the Federal Aviation Administration and Kentucky Airport Zoning Commission are attached as Exhibit "A". Written authorizations from these agencies will be supplied to the Commission upon their approval.

3. Pursuant to 807 KAR 5:063 §1(1)(d), applicant is attaching as Exhibit "B" 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 susceptibility of the area surrounding the proposed site to flood hazard.

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, 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 §1(1)(g), experienced personnel will manage and operate the South Hill cell site. The President of Bluegrass Cellular Inc., Mr. Ron Smith, is ultimately responsible for all construction and operations of the cellular system of Kentucky RSA # 3 , of which system the South Hill cell site will be a part. Bluegrass Cellular Inc. provides management services to Kentucky RSA #3 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 §1(1)(g), World Tower Company, 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 or 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 Butler 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 Butler County Judge Executive is 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 "***Kentucky RSA #3 Cellular General Partnership proposes to construct a telecommunications tower on this site,***" including the addresses and telephone numbers 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 "***Kentucky RSA #3 Cellular General Partnership proposes to construct a telecommunications tower near this site,***" including the addresses and telephone numbers 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 in a relatively undeveloped area in Morgantown, Kentucky.

21. Pursuant to 807 KAR 5:063 §1(1)(s), Kentucky RSA #3 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. Kentucky RSA #3 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), 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 is attached as Exhibit "J".

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 Kentucky RSA #3 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, Kentucky RSA #3 Cellular General Partnership requests the Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the South Hill 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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21963-32

LUKAS, NACE, GUTIERREZ & SACHS, LLP

8300 GREENSBORO DRIVE, SUITE 1200
MCLEAN, VIRGINIA 22102
703 584 8678 • 703 584 8696 FAX

WWW.FCCLAW.COM

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DAVID L. NACE
THOMAS GUTIERREZ*
ELIZABETH R. SACHS*
DAVID A. LAFURIA
PAMELA L. GIST
TODD SLAMOWITZ*
TODD B. LANTOR*
STEVEN M. CHERNOFF*
KATHERINE PATSAS NEVITT*

CONSULTING ENGINEERS
ALI KUZEHKANANI
LEILA REZANAVAZ

OF COUNSEL
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JOHN CIMKO*
J. K. HAGE III*
JOHN J. MCAVOY*
HON. GERALD S. MCGOWAN*
TAMARA DAVIS BROWN*

*NOT ADMITTED IN VA

November 10, 2009

Telephone
(703) 584-8668

Via Federal Express

Mr. John Houlihan
Kentucky Airport Zoning Commission
90 Airport Road
Building 400
Frankfort, Kentucky 40601

Dear Mr. Houlihan:

Enclosed please find two completed TC 56-50 forms, Application for Permit to Construct or Alter a Structure, for a new tower (South Hill) near Morgantown, Kentucky. The Structure, including top-mounted antennas will have an overall height of 295 feet Above Ground Level.

Enclosed Form TC 56-50 and the attached exhibit include all the pertinent information for this existing tower structure. Also enclosed are copies of the completed FAA Form 7460-1 for the proposed site, a non-reduced 7-1/2' U.S. Geological Survey map indicating the exact location of the site, and a 2-C survey.

Please do not hesitate to contact the undersigned if there are questions regarding this matter.

Sincerely,

Leila Rezanavaz

Leila Rezanavaz
Consulting Engineer

Enclosures

CC: Doug Updegraff

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
Tel: 270-769-0339

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

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

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

5. Work Schedule: Start 1/10/2010 End 1/15/2010

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 2009-ASO-6537-OE

9. Latitude: 37 ° 10 ' 17 . 79 "

10. Longitude: 86 ° 46 ' 48 . 73 "

11. Datum: ☒ NAD83 ☐ NAD27 ☐ Other _____

12. Nearest Kentucky City: Morgantown County Butler

13. Nearest Kentucky public use or Military airport:
Ohio County Airport

14. Distance from #13 to Structure: 20 Miles

15. Direction from #13 to Structure: South

16. Site Elevation (AMSL): 516.00 Feet

17. Total Structure Height (AGL): 295.00 Feet

18. Overall Height (#16 + #17) (AMSL): 811.00 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:
231 Freeman Staples Road
Morgantown, KY 42261

21. Description of Proposal:

Structure: A proposed self-supporting tower with top-mounted antennas for overall height of 295' AGL.

ERP: 250 Watts

Frequencies: Cellular Band B

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration?
☐ No ☒ Yes, When November 06, 2009

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	11/10/2009
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 _____

Landmark Surveying Co., Inc.

Darren L. Helms, P.L.S., PRESIDENT
Dennis N. Helms, P.L.S., VICE PRESIDENT

15 N.E. 3rd Street
Washington, Indiana 47501
Phone: 812-257-0950
Fax: 812-257-0953
Email: landmark97@sbcglobal.net

2C Certification

October 29, 2009

Designation: South Hill
Site ID No.: Not Available
Tower Type: Proposed Self-Support Tower
Location: 231 Freeman Staples Road, Morgantown, Kentucky 42261

I certify that the latitude, longitude, ground elevation and height of the proposed self-support tower are as follows:

Latitude:	37 degrees 10 minutes 17.79 seconds North	(NAD 1983)
Longitude:	86 degrees 46 minutes 48.73 seconds West	(NAD 1983)
Ground Elevation:	516.0 feet or 157.28 meters	(NAVD 1988)
Proposed Structure Height:	280 feet or 85.3 meters	(above ground level)
Proposed Overall Structure Height:	not available	(above ground level)

The accuracy of the latitude and longitude of the proposed self-support tower is ± 50 feet or ± 15 meters. The ground elevation and structure height are accurate to within ± 20 feet or ± 6 meters.

The information shown above is based upon field observations made on October 14, 2009 using the National Geodetic Survey monument "GPS 45" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (2007). The field observations were completed using Sokkia GPS receivers and a Topcon GPT-8005A robotic total station. Geodetic computations were completed using Sokkia's Locus software and Autodesk Land Desktop Companion 2008 software.

Landmark Surveying Co., Inc.

Darren L. Helms

Darren L. Helms, Kentucky Professional Land Surveyor No. 3386

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

Federal Aviation Administration

« OE/AAA

Notice of Proposed Construction or Alteration - Off Airport

Project Name: BLUEG-000133239-09 **Sponsor:** Bluegrass Cellular, Inc.

Details for Case : South Hill

Show Project Summary

Case Status

ASN: 2009-ASO-6537-OE
Status: Accepted
Date Accepted: 11/06/2009
Date Determined:
Letters: None
Documents: None

Construction / Alteration Information

Notice Of: Construction
Duration: Permanent
if Temporary : Months: Days:
Work Schedule - Start: 01/10/2010
Work Schedule - End: 01/15/2010
State Filing: Filed with State

Structure Summary

Structure Type: Antenna Tower
Structure Name: South Hill
FCC Number:
Prior ASN:

Structure Details

Latitude: 37° 10' 17.79" N
Longitude: 86° 46' 48.73" W
Horizontal Datum: NAD83
Site Elevation (SE): 516 (nearest foot)
Structure Height (AGL.): 295 (nearest foot)
Requested Marking/Lighting: Dual-red and medium intensity
Other :
Recommended Marking/Lighting:
Current Marking/Lighting: N/A New Structure
Other :
Nearest City: Morgantown
Nearest State: Kentucky
Description of Location: The site is located at:
231 Freeman Staples Road
Morgantown, KY 42261
Description of Proposal: Proposed self-supporting tower with top-mounted antennas for overall height of 295'

Common Frequency Bands

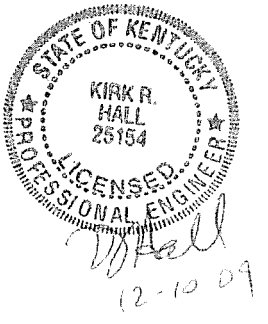
Low Freq	High Freq	Freq Unit	ERP	ERP Unit
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz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

Specific Frequencies

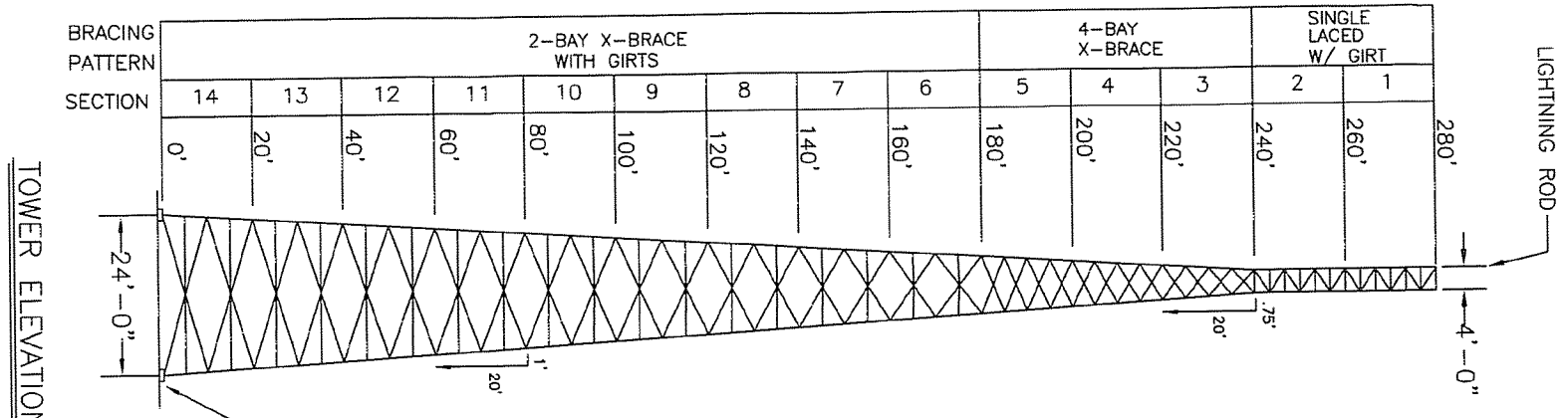
World Tower
COMPANY, INC

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

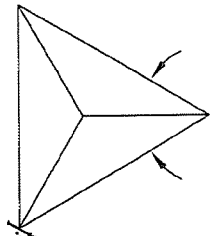
280' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE: SOUTH HILL
BUTLER COUNTY, KY
DESIGN PACKAGE



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



TOWER ELEVATION

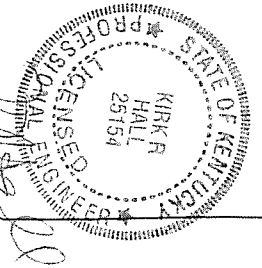


TOWER PLAN

GENERAL NOTES

1. TOWER IS DESIGNED TO SUPPORT THE GIVEN LOAD AND MEET THE PROVISIONS OF TIA-222-G FOR A 90 MPH BASIC WIND SPEED WITH NO ICE. TOWER IS ALSO DESIGN FOR A 30 MPH BASIC WIND SPEED WITH 3/4" ICE. STRUCTURE CLASS II, EXP. CAT. C AND TOPO. CAT. 1.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY AWS. D 1.1.
3. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
4. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
5. LEG STEEL IS 50 KSI MIN YIELD SOLID ROUND AND BRACING STEEL IS 36 KSI MIN YIELD SOLID ROUND OR STRUCTURAL ANGLE.
6. ALL STRUCTURAL BOLTS ARE ASTM A325.
7. TOWER IS DESIGNED FOR ALL LINES TO BE MOUNTED ACCORDING TO DRAWING Q09935WG.
8. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH TIA/EIA-222-G EVERY 5 YEARS.
9. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.
10. STEP BOLTS PROVIDED ON ONE LEG FROM 100' TO 280' AND 3 LEGS FROM 0' TO 100'.
11. CABLE SAFETY 0'-280'.

BASE REACTIONS		
OTM:	9007.0	FT. KIPS
COMP.	465.0	KIPS
UPLIFT	382.0	KIPS
SHEAR (3 LEGS)	62.0	KIPS
WT. NO ICE	96.0	KIPS
WT. 3/4" ICE	222.0	KIPS



12-10-09

WORLD TOWER

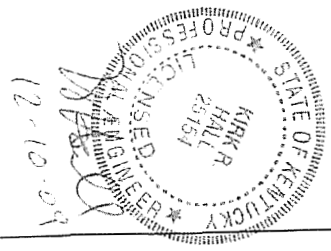
TITLE:

280' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE : SOUTH HILL
BUTLER COUNTY, KY

SCALE NONE	DWN. LKB	CKD.	DATE 12-10-09
FILE		DWG. NO. Q09935	

SECTION NO.	LEGS	DIAGONALS	GIRTS	SPLICE BOLTS	DIAG BOLTS	GIRT BOLTS
1	1 1/2	1	1	4– 3/4"	WELDED CONSTRUCTION	
2	2	1 1/8	1	↓		
3	2 1/2	2 X 1/8	2 X 1/8	4–1"	5/8	5/8
4	2 3/4	2 X 1/8	N/A	↓	↓	N/A
5	3	2 X 3/16	↓	↓	↓	↓
6	3 1/4	2 1/2 X 3/16	2 X 1/8	6–1"	↓	5/8
7	3 1/4	3 X 3/16	2 X 3/16	↓	↓	↓
8	3 1/2	3 X 3/16	2 1/2 X 3/16	↓	3/4	3/4
9	3 3/4	3 X 1/4	2 1/2 X 3/16	6–1 1/4"	↓	↓
10	3 3/4	3 X 1/4	3 X 3/16	↓	↓	↓
11	4	3 1/2 X 1/4	3 X 3/16	↓	↓	↓
12	4	3 1/2 X 1/4	3 X 1/4	↓	↓	↓
13	4 1/4	3 1/2 X 1/4	3 1/2 X 1/4	↓	↓	↓
14	4 1/4	4 X 1/4	3 1/2 X 1/4	6–1 1/4" ANCHOR BOLTS		

ANTENNA LOADING		
ELEV.	DESCRIPTION	LINE
280'	(6) ANTEL RWB 80014/120 ON WD13X53 MOUNT	6– 1 5/8"
260'	(6) ANTEL RWB 80014/120 ON WD13X53 MOUNT	6– 1 5/8"
240'	(6) ANTEL RWB 80014/120 ON WD13X53 MOUNT	6– 1 5/8"
220'	(6) ANTEL RWB 80014/120 ON WD13X53 MOUNT	6– 1 5/8"
200'	(6) ANTEL RWB 80014/120 ON WD13X53 MOUNT	6– 1 5/8"
180'	6' GRID DISH	1– 1 5/8"

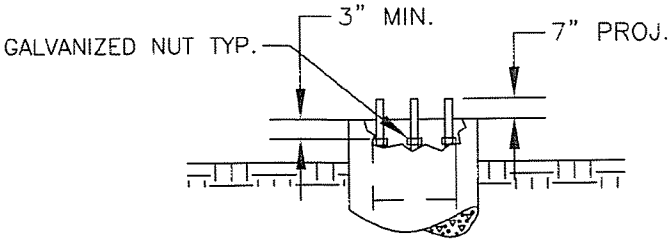


WORLD TOWER

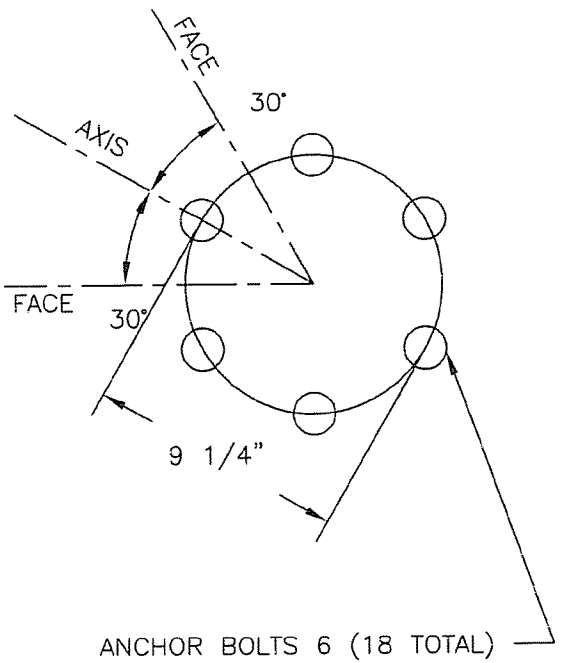
TITLE:

280' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE : SOUTH HILL
BUTLER COUNTY, KY

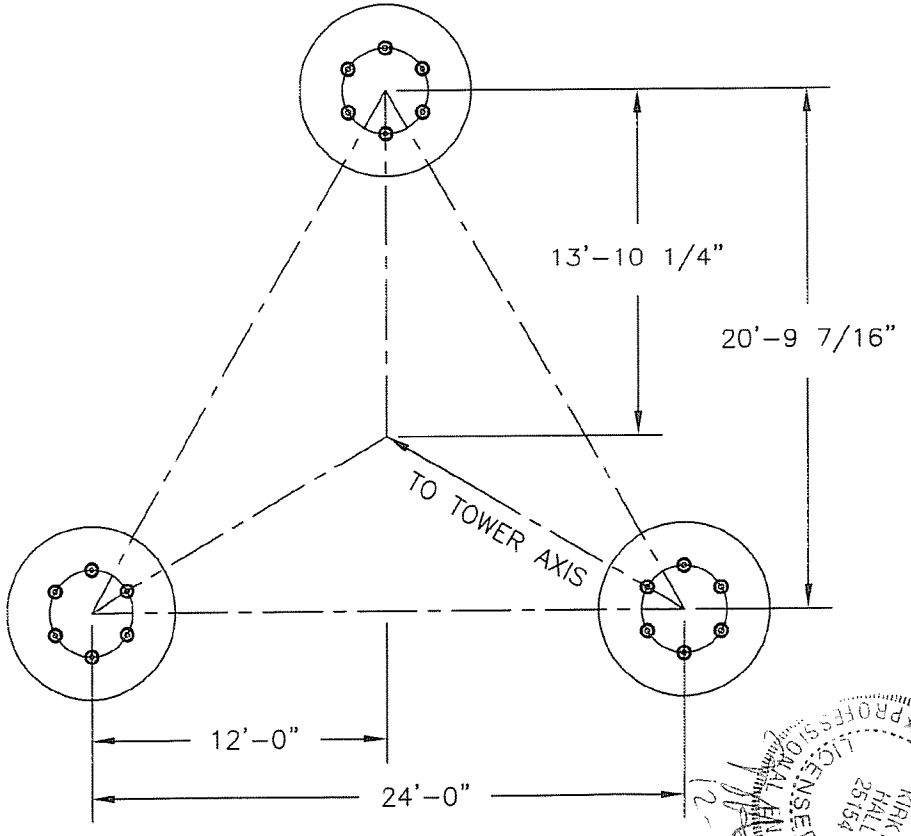
SCALE NONE	DWN. LKB	CKD.	DATE 12–10–09
FILE		DWG. NO. Q09935T	

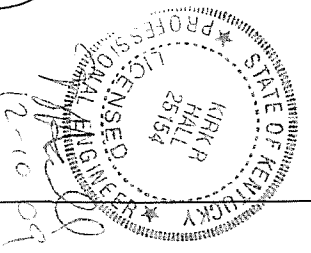


PIER ELEVATION



ANCHOR BOLTS 6 (18 TOTAL)
1 1/4"ø X 80" ASTM A354 GR. BC
EQUALLY SPACED ON A 9 1/4"
DIA. BOLT CIRCLE WITH TOP TEMPLATE
AND EMBEDDED PLATE

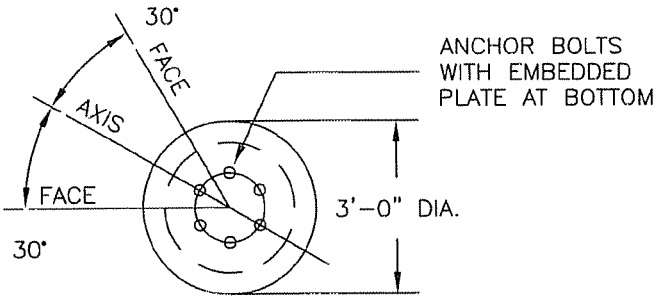




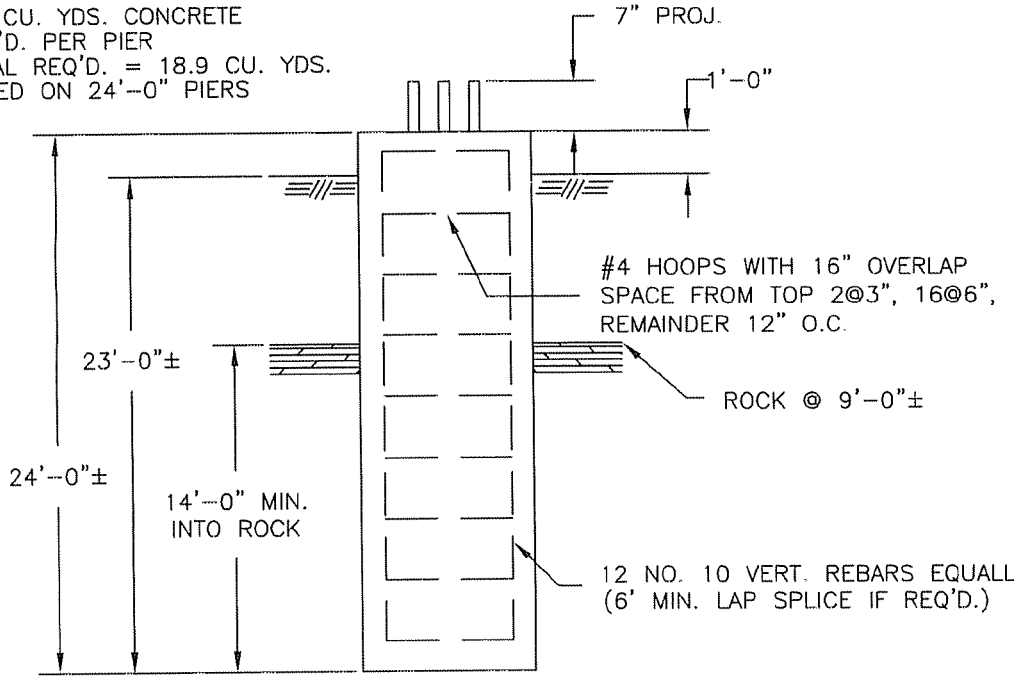
WORLD TOWER

TITLE: ANCHOR BOLT LAYOUT
280' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE : SOUTH HILL
BUTLER COUNTY, KY

SCALE NONE	DWN. LKB	CKD.	DATE 12-10-09
FILE		DWG. NO.	Q09935AB



6.3 CU. YDS. CONCRETE
REQ'D. PER PIER
TOTAL REQ'D. = 18.9 CU. YDS.
BASED ON 24'-0" PIERS



BASE REACTIONS		
OTM:	9007.0	FT. KIPS
COMP.	465.0	KIPS
UPLIFT	382.0	KIPS
SHEAR (3 LEGS)	62.0	KIPS
WT. NO ICE	96.0	KIPS
WT. 3/4" ICE	222.0	KIPS

GENERAL NOTES

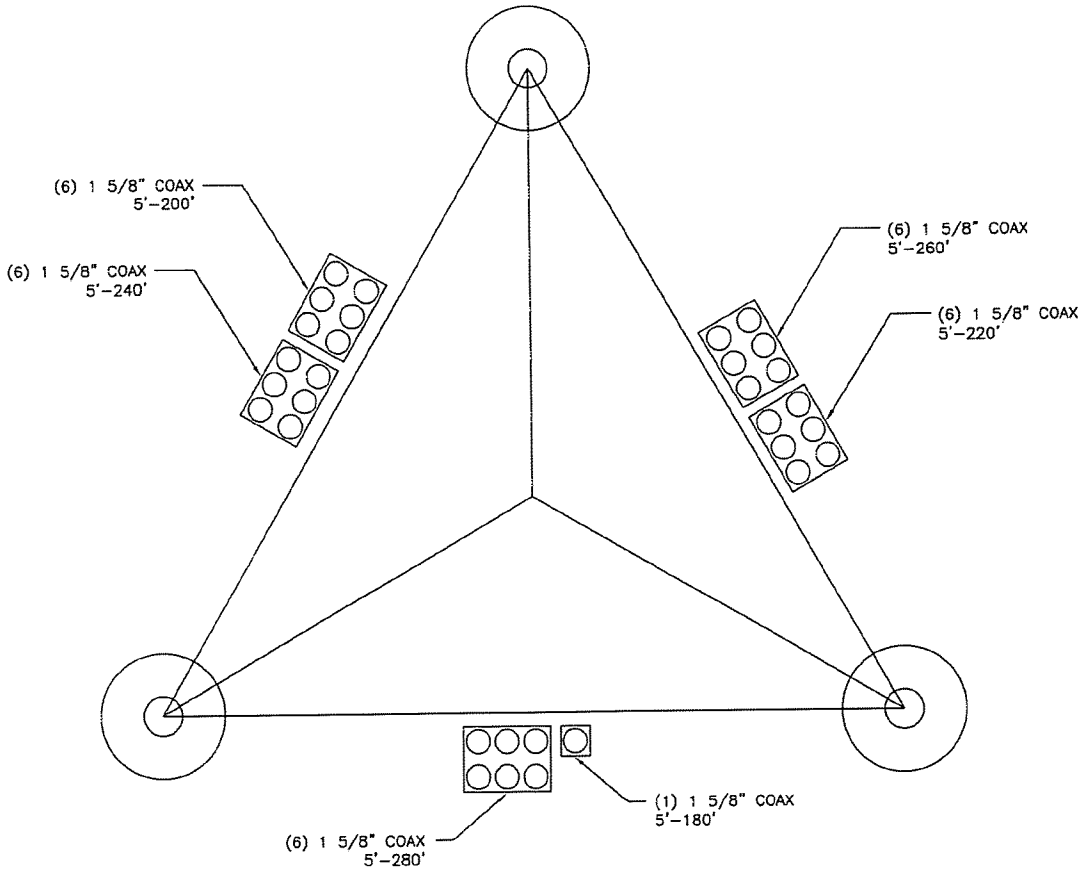
1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM PATRIOT ENGINEERING AND ENVIRONMENTAL, INC. PROJECT NUMBER 5-09-0876 DATED NOVEMBER 5, 2009.

TITLE: FOUNDATION DETAIL
280' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE : SOUTH HILL
BUTLER COUNTY, KY

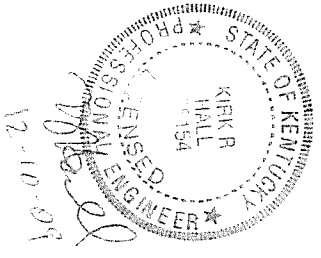
WORLD TOWER

SCALE	DWN.	CKD.	DATE
NONE	LKB		12-10-09

FILE | DWG. NO. Q09935F



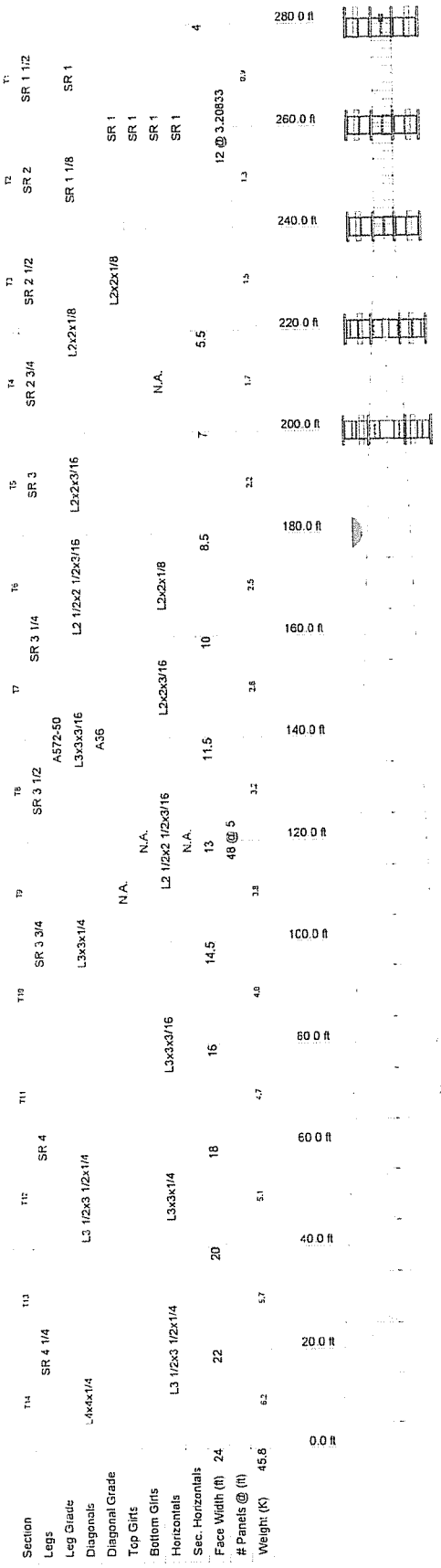
PLAN VIEW



WORLD TOWER

TITLE:
WAVEGUIDE LOCATION
280' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE : SOUTH HILL
BUTLER COUNTY, KY

SCALE NONE	DWN. LKB	CKD.	DATE 12-10-09
FILE	DWG. NO. Q09935WG		



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting	280	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	240
WD13X53 Antenna Mounting Frame (w/ 75)*	280 - 278	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	240
WD13X53 Antenna Mounting Frame (w/ 75)*	280 - 278	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	240
WD13X53 Antenna Mounting Frame (w/ 75)*	280 - 278	WD13X53 Antenna Mounting Frame (w/ 75)*	220
(2) Antel RWB 80014/120 w/ mnt. pipe(Panel 96.5"x11.2"x5.9")*	280	WD13X53 Antenna Mounting Frame (w/ 75)*	220
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	280	WD13X53 Antenna Mounting Frame (w/ 75)*	220
(2) Antel RWB 80014/120 w/ mnt. pipe(Panel 96.5"x11.2"x5.9")*	280	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	220
WD13X53 Antenna Mounting Frame (w/ 75)*	260	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	220
WD13X53 Antenna Mounting Frame (w/ 75)*	260	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	220
WD13X53 Antenna Mounting Frame (w/ 75)*	260	WD13X53 Antenna Mounting Frame (w/ 75)*	200
(2) Antel RWB 80014/120 w/ mnt. pipe(Panel 96.5"x11.2"x5.9")*	260	WD13X53 Antenna Mounting Frame (w/ 75)*	200
(2) Antel RWB 80014/120 w/ mnt. pipe(Panel 96.5"x11.2"x5.9")*	260	WD13X53 Antenna Mounting Frame (w/ 75)*	200
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	260	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	200
WD13X53 Antenna Mounting Frame (w/ 75)*	240	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	200
WD13X53 Antenna Mounting Frame (w/ 75)*	240	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11.2"x5.9")*	200
WD13X53 Antenna Mounting Frame (w/ 75)*	240	6' Grid Dish	180

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Butler County, Kentucky
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90.00 mph basic wind in accordance with the TIA-222-G Standard
4. Tower is also designed for a 30.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60.00 mph wind.
6. Tower is designed for feedlines distributed on 3 tower faces with a maximum of 6 lines exposed to the wind on any one face.
7. Weak link in legs from 160' to 140' so theoretical fall radius is 1/2 of tower height
8. TOWER RATING: 98.5%

MAX. CORNER REACTIONS AT BASE:
DOWN: 465 K
UPLIFT: -382 K
SHEAR: 40 K

AXIAL
222 K

SHEAR
7 K

MOMENT
1164 kip-ft

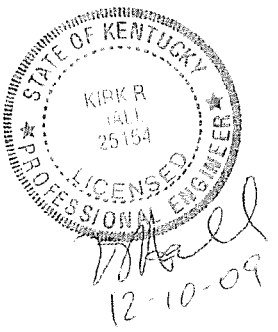
TORQUE 0 kip-ft
30.00 mph WIND - 0.75 in ICE

AXIAL
96 K

SHEAR
62 K

MOMENT
9007 kip-ft

TORQUE 2 kip-ft
REACTIONS - 90.00 mph WIND



World Tower Company 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	Job: ***280' WSST / Job #Q09-935*** Project: ***South Hill, Kentucky*** Client: Bluegrass Cellular Drawn by: Kirk Hall App'd. Code: TIA-222-G Date: 12/10/09 Scale: NTS Path: C:\Tower\PE Runs\2009\Q09-935 South Hill\Q09-935.en Dwg No. E-1

December 10, 2009

Bluegrass Cellular
2902 Ring Road
Elizabethtown, KY 42702

Attention: Jeff Brewer

Reference: Proposed 280' Self Supporting Tower
South Hill, Butler County, Kentucky
World Tower File No. Q09-935

World Tower
COMPANY, INC.

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

The above-referenced structure has been designed by a licensed professional engineer to safely support the specified loading (see engineering drawings) in accordance with the TIA-222-G 2006 Standard for a 90 mph design wind gust. The TIA-222-G Standard is based upon the requirements of the International Building Code and was developed by tower professionals to more accurately address the engineering and design of steel tower structures.

The structure has been designed based on standard steel design techniques and procedures including all applicable safety factors, therefore, the structure is considered "safe" at its design wind loading. If an extreme wind event were to occur, failure would not be expected at the instant the design wind speed is exceeded. Any wind loading that occurs over and above the design wind loading would begin to overcome the design safety factors before a failure could occur. Safety factors for tower members vary based on failure mode, but all tower members can support a minimum of 1.25 times their design load without permanent deformation.

Steel towers are constructed of many small leg, diagonal and horizontal members of known strength. It is highly unlikely that a tower failure will occur, but if a tower failure is to be predicted, then failure would first occur in the weakest member(s) with the least amount of safety factor. Using this approach, a self-supporting tower can be designed to fail in a certain location by over designing members in the lower portion of the tower, giving them a greater safety factor and less probability of failure.

For this tower, the weakest members were intentionally designed as the primary legs between 160' and 140'. These legs would be stressed to approximately 98.5% of safe capacity in an extreme wind event and would be expected to fail first if the safety factors were exceeded. For this reason, the theoretical fall radius for this tower would be a maximum of 140-feet (half the tower height) as the weakest legs are the first to experience failure through a combination of buckling and bending during a catastrophic wind event. Once the highest portion of the tower fails and falls down off the tower, the stresses on the lower (stronger) portion of the tower are reduced. This usually results in a portion of the structure remaining intact after the partial failure.

Please contact us at your convenience should you have further questions concerning the safety of tower structures or other aspects of tower design.

Sincerely,

Kirk R. Hall, P.E.
World Tower Company, Inc.

STATE OF KENTUCKY
KIRK R HALL
25154
LICENSED PROFESSIONAL ENGINEER

12-10-09

Report of
Geotechnical Engineering Investigation
South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, Kentucky
Patriot Project No. 5-09-0876

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

November 5, 2009

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

November 5, 2009

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

Attention: Jeff Brewer, Project Supervisor

RE: Report of Geotechnical Engineering Investigation
South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, KY
Patriot Project Number 5-09-0876

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

South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, Kentucky
Patriot Project No. 5-09-0876

1.0 INTRODUCTION

1.1 General

Bluegrass Cellular is planning the construction of a new cell tower located in South Hill, Butler 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 on a parcel located in South Hill, Butler 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 and that the anticipated structural loads will not exceed the following loading conditions:

Vertical (Downward) Load:	465 kips
Uplift:	382 kips
Horizontal Shear:	40 kips

3.0 SITE AND SUBSURFACE CONDITIONS

3.1 Site Conditions

The area for the proposed cell tower is located in a clearing located on the north side of Freeman Staples Road approximately 0.2 miles east of the intersection of Stringtown Road and Freeman Staples Road. The site is located just east of an abandoned trailer and a pole barn. The site is primarily a pasture with no trees, although a tree line is located on the east side of the site a distance of approximately 50 feet from the center of the proposed tower location. The ground was noticeably wet during our site visit due to rain showers earlier that morning.

3.2 Site Geology

Information pertaining to soil characteristics in the project area was obtained through the Kentucky Geological Society Website and Interactive GIS Map.

The site is located in the Western Kentucky Coal Field physiographic region in western Kentucky. The bedrock at or near the surface consists of sedimentary rock and is of Pennsylvanian age. Specifically, the underlying bedrock is referred to as the Tradewater and Caseyville Formations. The Tradewater Formation consists of sandstone described as light gray in color, fine to medium-grained, and micaceous. The Caseyville Formation consists of interbedded shale and siltstone described as medium to dark gray in color. These formations also contain some limestone and coal.

According to the available geological information, no coal mines are located within the immediate vicinity of the project area. However, records were available for coal thickness boreholes drilled several miles northwest of the project site. These records revealed that the closest borehole is located approximately 1.3 miles northwest of the project site and encountered coal from about 15.8 to 16.2 feet and from about 33.8 to 35.2 feet. The geology maps also revealed a series of faults located near the project area, including one that borders the north side of the proposed lease area. These faults are apparently not named or associated with a particular fault system. 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 clayey silt described as light brown in color, very moist, and medium stiff to stiff to a depth of 3.5 feet. Below the silty clay layer the boring encountered light brown to brown mottled light gray, moist, and very stiff to hard clayey silt to a depth of 9 feet, the auger refusal depth.

Standard Penetration Test blow counts (N-values) were 7 blows per foot (bpf) in the upper 3.5 feet, 29 bpf between 3.5 and 6.0 feet, 20 bpf between 6.0 and 8.5 feet, and greater than 50 blows per foot below 8.5 feet. Natural moisture contents in these soils ranged from 16 to 27 percent.

Upon reaching auger refusal, 10 feet of rock coring was performed. Sandstone described as light to medium gray, fine to medium grained, fresh, micaceous, and hard was encountered from 9.0 to 19.0 feet. Some brown and black staining was noted on the retrieved core samples. Notable weathering along the rock joints was noticed between 14.0 and 19.0 feet. 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
9.0-14.0	100	48	Poor
14.0-19.0	90	78	Good

A portion of the rock core from 9.7' to 10.0' was subjected to unconfined compressive strength testing. The results revealed an unconfined compressive strength of 2314 psi.

3.4 Groundwater Conditions

Groundwater was not encountered during nor 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 soil borings, 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)*
0-5.0	Silty Clay/Silt	Ignore	Ignore	Ignore	Ignore
5.0-9.0	Clayey Silt	225	4,500	0	1,500
9.0-19.0	Sandstone	2,800	30,000	0	15,000

*** It should be noted that the recommended cohesion values do not include a factor of safety.**

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 bearing on competent sandstone bedrock at a depth of at least 9 feet below the existing

subgrade elevation. The maximum allowable bearing pressure for mat foundation design should not exceed ***30,000*** **psf**. 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.

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 native clayey silt or structural fill overlying the same at normal shallow depths. These footings may be proportioned using net an allowable soil bearing pressure not exceeding ***1,800*** 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

The shallow silty clay soils encountered in the test boring are generally suitable for floor slab support, although some undercutting to remove shallow clays with high moisture contents should be expected. *Depending upon the time of year in which floor slabs are constructed the 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 **90** pounds per cubic inch (pci) is recommended for the design of ground supported floor slabs bearing on native clayey silt. It should be noted that the "K_{30}" modulus is based on a 30-inch diameter plate load test and a CBR value of **2.0**.

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 silty clay (CL) to clayey silt (ML) soil encountered in the test boring are generally suitable for support of the access road and parking area. 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 be similar to past projects with the same general scope. The typical design generally consists of 6" to 8" of coarse-graded stone overlain by a minimum of 4" of compacted crusher run stone or DGA. 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 B** 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 B was based on cohesive soils with an average undrained shear strength of 1500 psf to a depth of 9 feet and moderately hard sandstone bedrock with an average shear wave velocity of 3000 feet/second from 9 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	115	5	117
10	112	10	104
15	116	15	118
20	122	20	128
30	129	30	156
40	132	40	151

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. **If significant amounts of coal are encountered in the drilling spoils or in the pier excavation, deepening of the piers may become necessary.**
- 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 clayey silt or sandstone 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. 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.

If 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 beneath the mat foundation should be limited to compacted No. 57 Stone placed and compacted in accordance with this report or lean concrete. Compacted DGA or lean clay (CL) may also be used as backfill for the maintenance building, parking***

lot, and access roads, provided the clay borrow has a liquid limit of less than 40 percent and a plasticity index of less than 20 percent.

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 nor 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.

6.0 INVESTIGATIONAL PROCEDURES

6.1 Field Work

A total of 1 boring was performed at the project site on October 15, 2009 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 9.0 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 October 14, 2009. The testing was performed along two lines running perpendicular to one another through the center of the proposed tower location.

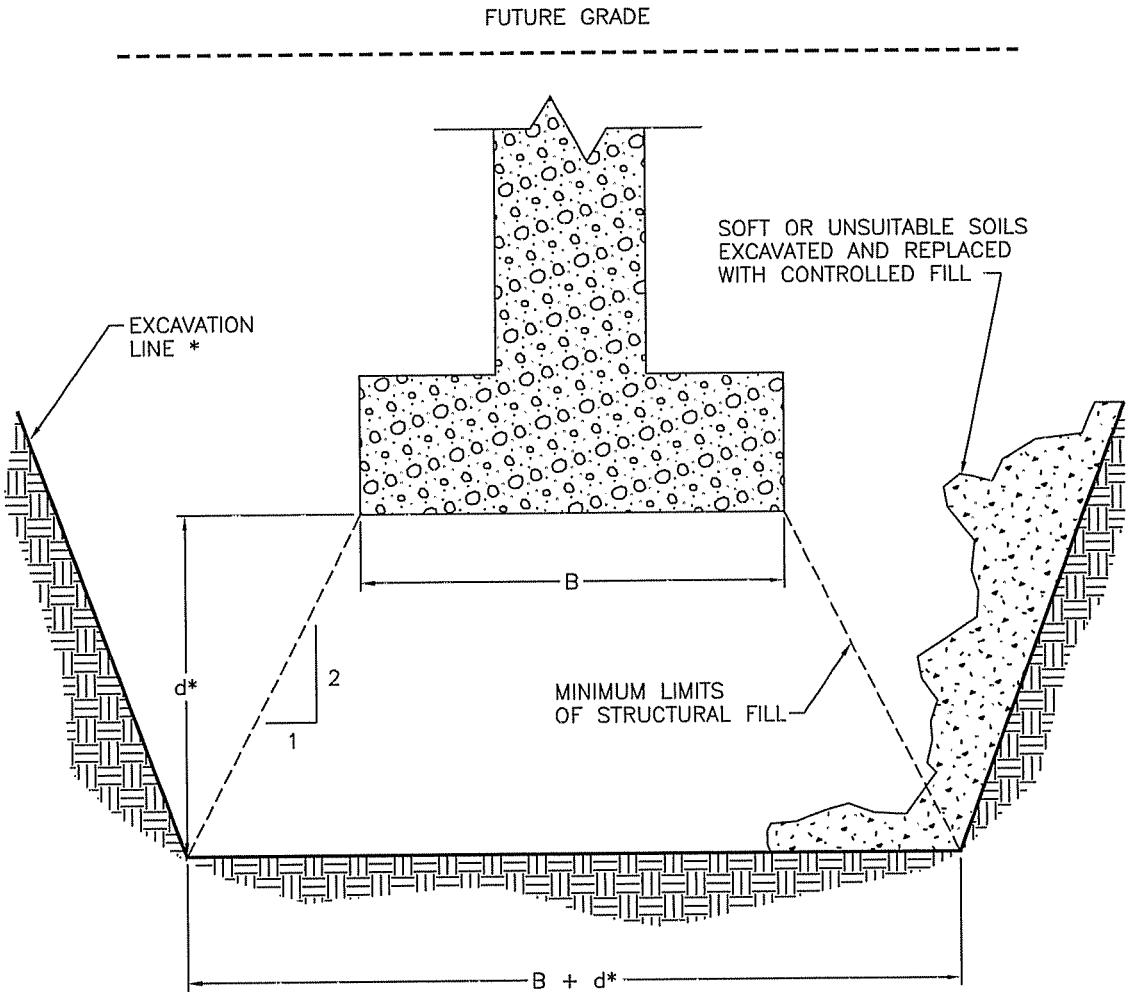
Upon completion of the boring program, all of the samples retrieved during drilling in this sampling program were returned to *Patriot*'s soils testing laboratory where they were visually examined and classified. A laboratory generated log was prepared based upon the driller's field log, laboratory test 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 necessary and applicable. The results of all laboratory tests are shown on the boring log.

7.0 ILLUSTRATIONS

See Illustrations A and B 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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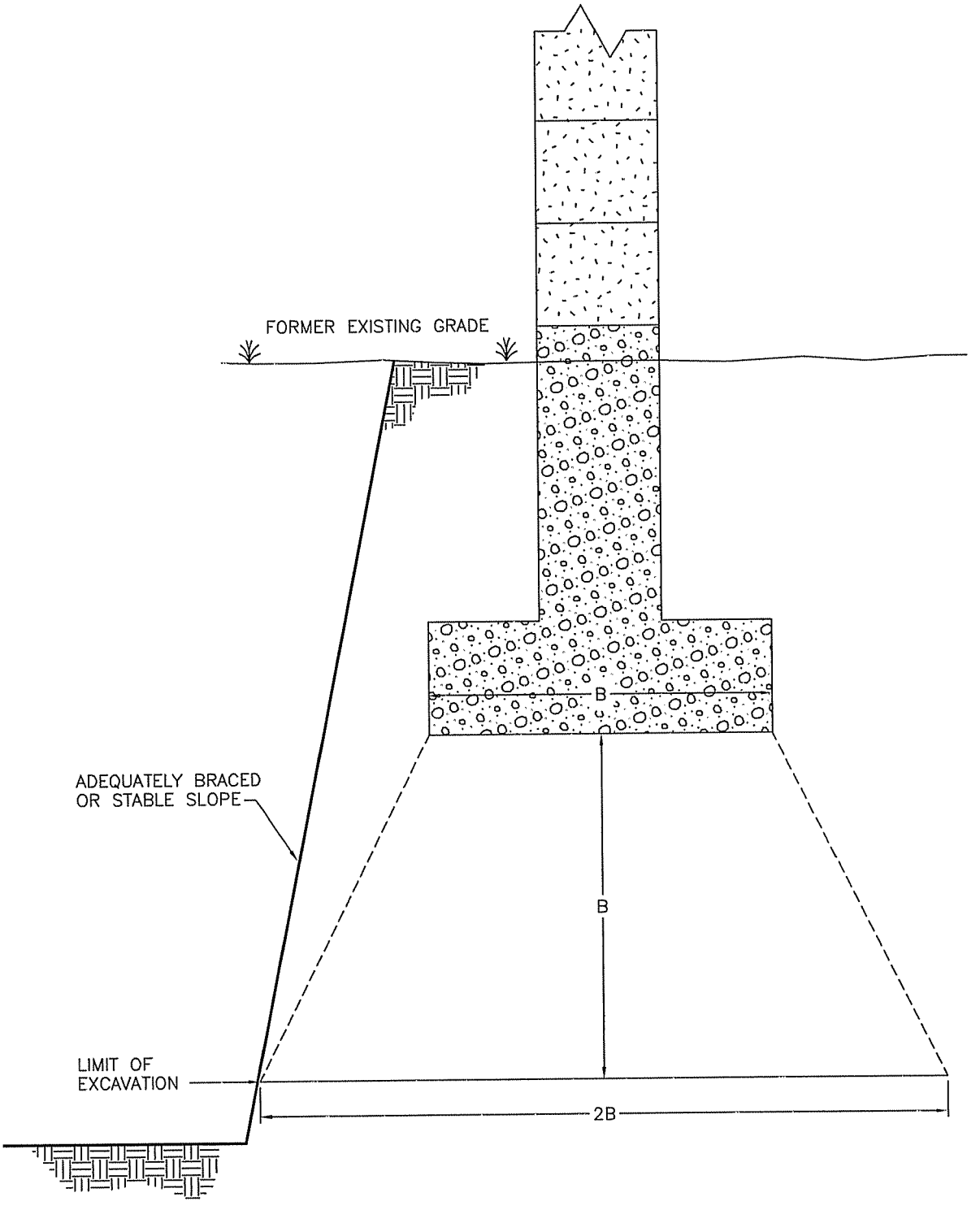
and Environmental, Inc.
4735 Poplar Level Road, Suite 1
(502)961-5652 FAX (502)961-9256

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

APPENDIX A

Site Vicinity Map

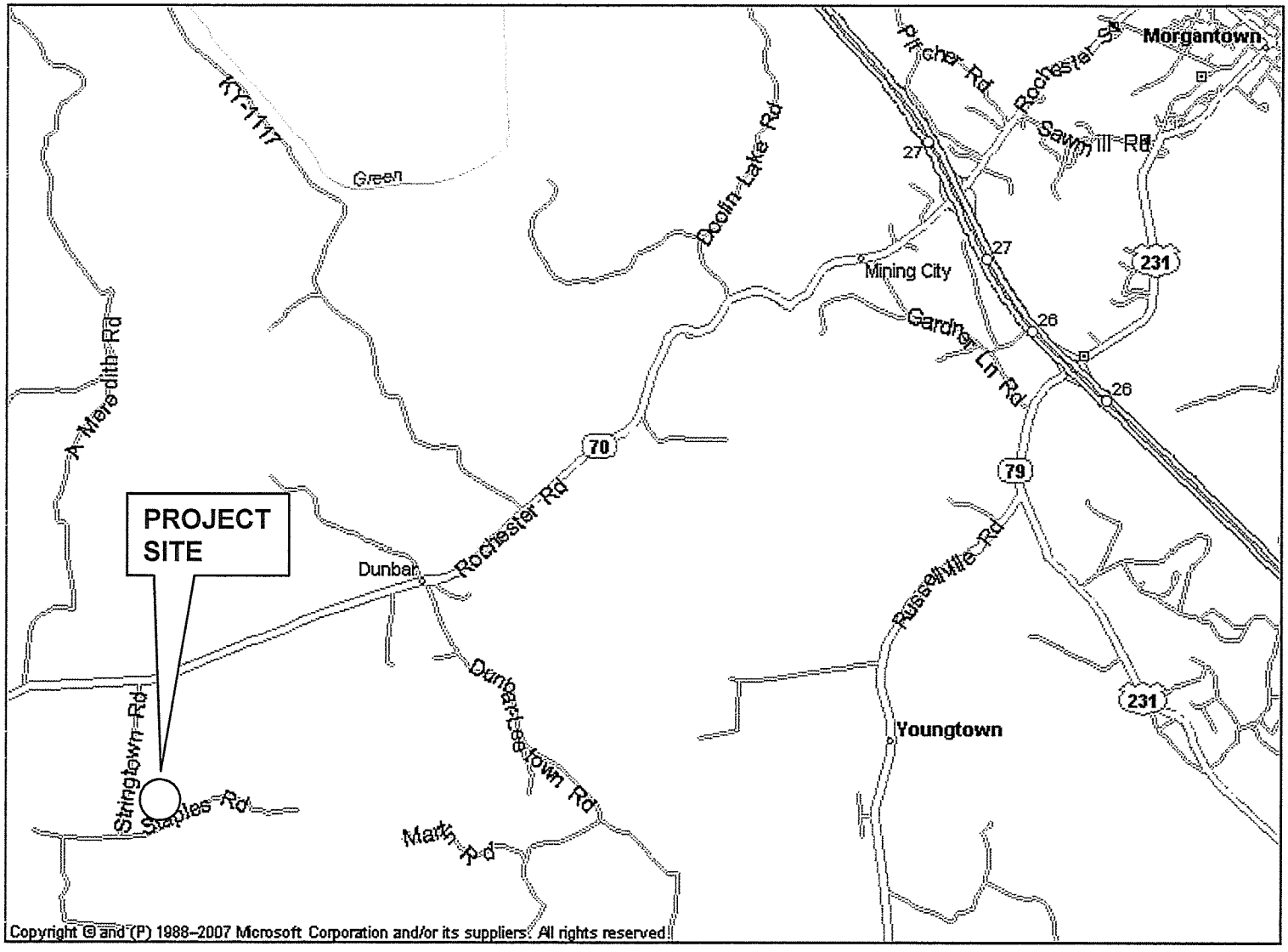
Boring / Resistivity Test Location Map

Site Geology Map

Boring Log

Boring Log Key

Unified Soils Classification (USCS)



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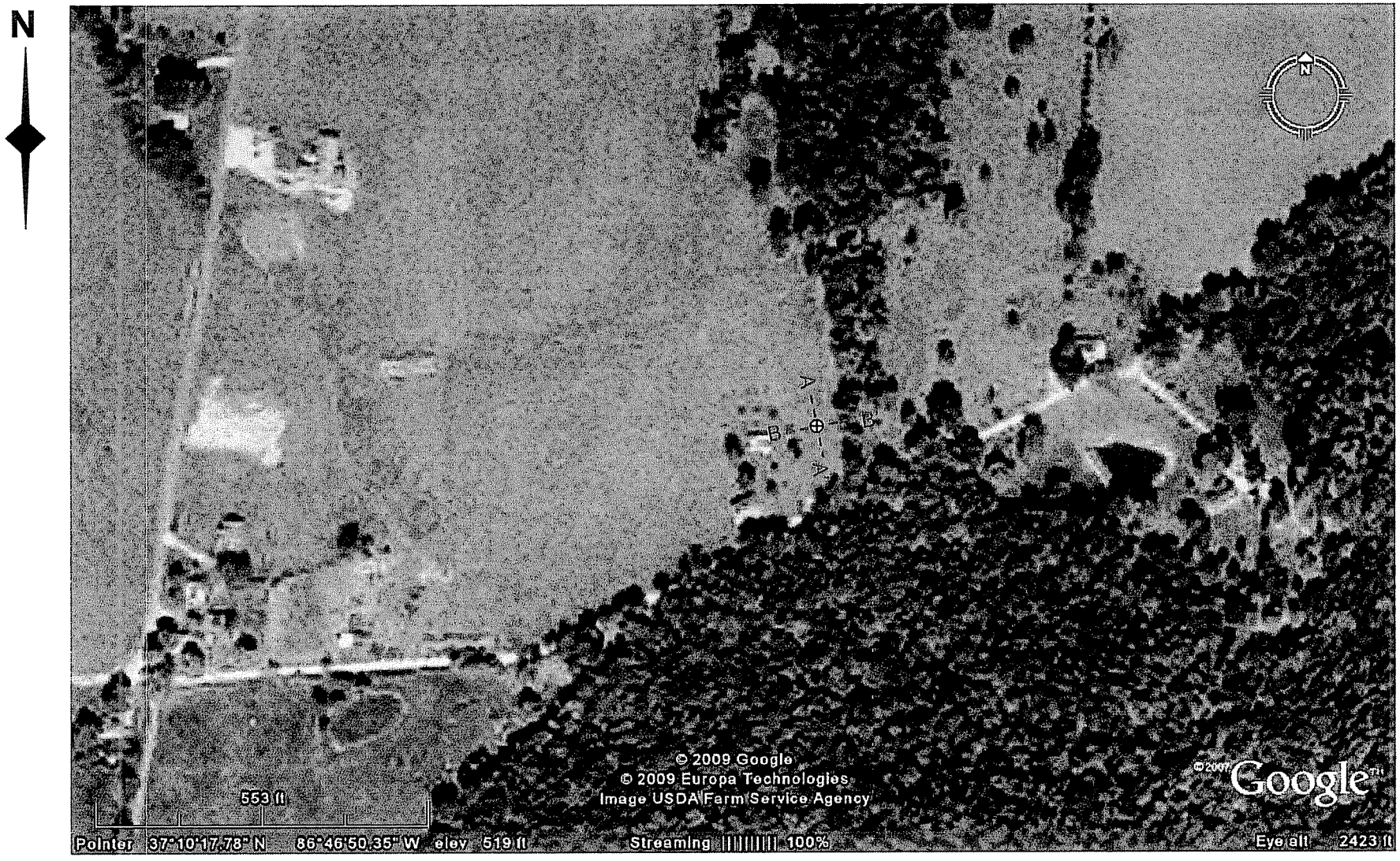
Site Location Map
South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, KY

Job No. 5-09-0876	**Figure** 1

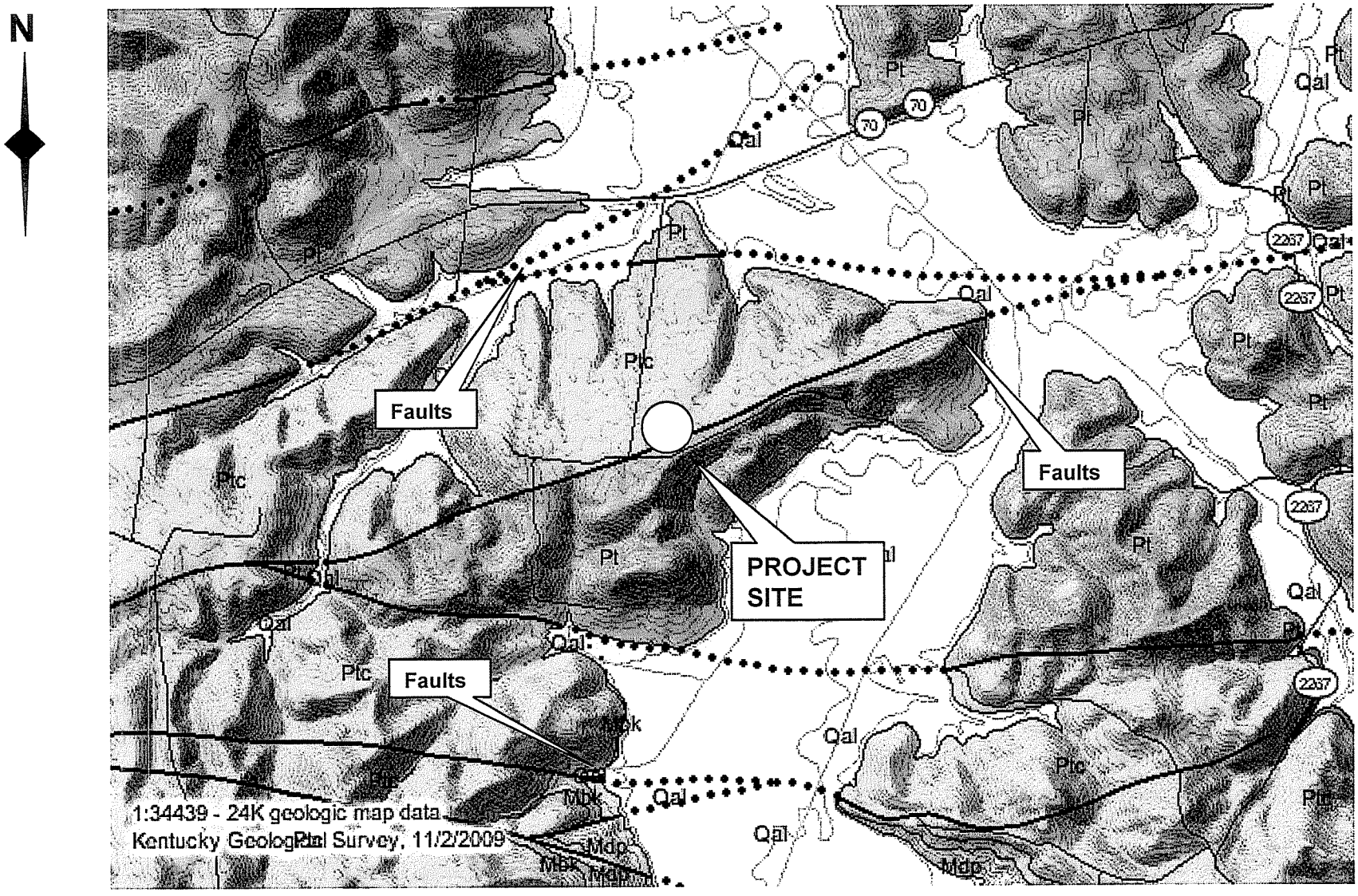


PATRIOT ENGINEERING
and Environmental, Inc.
Louisville, Kentucky 40299

Boring/Resistivity Test Location Map

South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, KY

Job No. 5-09-0876	**Figure** 2



PATRIOT ENGINEERING
and Environmental, Inc.
Louisville, Kentucky 40299

Site Geology Map
South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, KY

Job No. 5-09-0876	**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

South Hill Cell Tower
Freeman Staples Road
South Hill, Butler County, KY

Client Name	: Bluegrass Cellular	Driller	: G. Taylor
Project Number	: 5-09-0876	Sampling	: Splitspoon
Logged By	: W. Hemp	Approximate Elevation	: 520 +/-
Start Date	: 10/15/2009	Drill Rig	: CME-750 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)							
		CL		SILTY CLAY, light brown, very moist, medium stiff to stiff		100	3/3/4	2.0	27		
5		ML		CLAYEY SILT, light brown, moist, very stiff to hard		100	11/13/16	4.25	16		
		ML		CLAYEY SILT, light brown to brown mottled light gray, moist, very stiff to hard, w/ trace sandstone fragments		78	6/9/11	4.5	17		
						100	(50/3")	-	17		Auger refusal encountered at 9.0'. Core rock from 9.0' to 19.0'.
10		SS		SANDSTONE, light gray, fine to medium grained, fresh, micaceous, hard, w/ some brown staining		100				48	Sample from 9.7'-10.0' subjected to unconfined compressive strength testing. Qu = 2314 psi
15		SS		SANDSTONE, light to medium gray, fine to medium grained, fresh, micaceous, hard, w/ some brown and black staining and significant weathering at joints		90				78	
20				Boring terminated at 19.0'							
25											
30											
35											

11-03-2009 P:\Borings\KY2009\5-09-0876\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.

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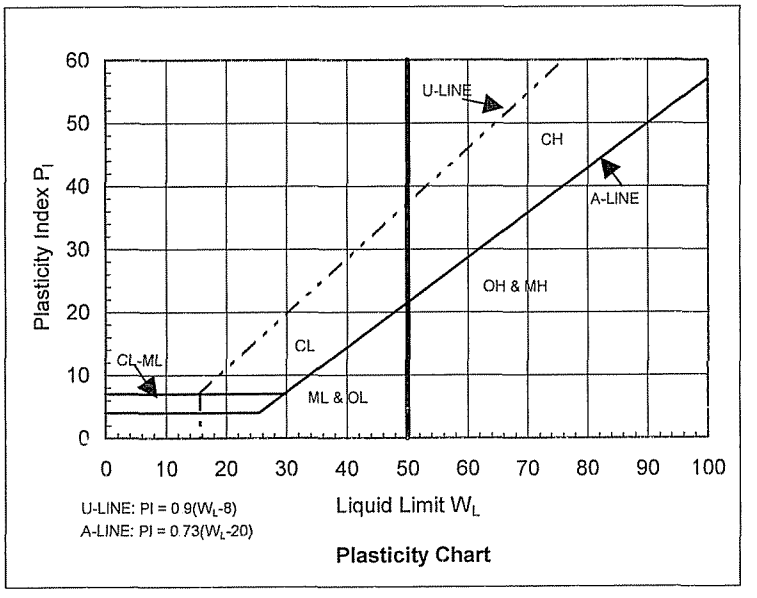
and Environmental, Inc.

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. 4 sieve size)	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	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	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.

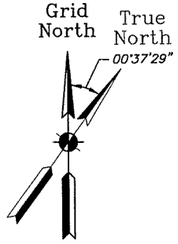
STANDARD CLAUSE FOR UNANTICIPATED SUBSURFACE CONDITIONS

"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: South Hill
Lease Boundary and Topographic Survey
Butler County, Kentucky



Basis of Bearings

The bearing system of this survey is based upon G.P.S. observations made on October 14, 2009 using the National Geodetic Survey monument "GPS 45" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (2007). This system is grid north.

Tower Location Information

Designation: South Hill
Site ID#: None
Horizontal Datum: NAD 1983 (2007)
Latitude: 37°10'17.79" North
Longitude: 86°46'48.73" West
Vertical Datum: NAVD 1988
Ground Elevation: 516.0 feet (157.28 m)
State Plane Coordinates
Northing: 1,947,256.94 feet (593,525.102 m)
Easting: 1,340,262.28 feet (408,512.760 m)

Landowner Information

Landowner: Richard E. and Darlene Bellies
Address: 9685 Provo Road
Rochester, Kentucky 42273
Contact Person: Richard E. Bellies
Phone: 270-934-4767
PVA Map No. 037-00-00-002.00

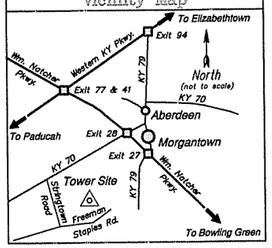
Project Bench Mark

Northing: 1,947,280 feet (593,532 m)
Easting: 1,340,108 feet (408,466 m)
Elevation: 516.99 feet (157.579 m)
Description: A railroad spike set in the south side of a utility pole, 12" above grade. The benchmark is approximately 156 feet west of the center of the tower.

Flood Plain Statement

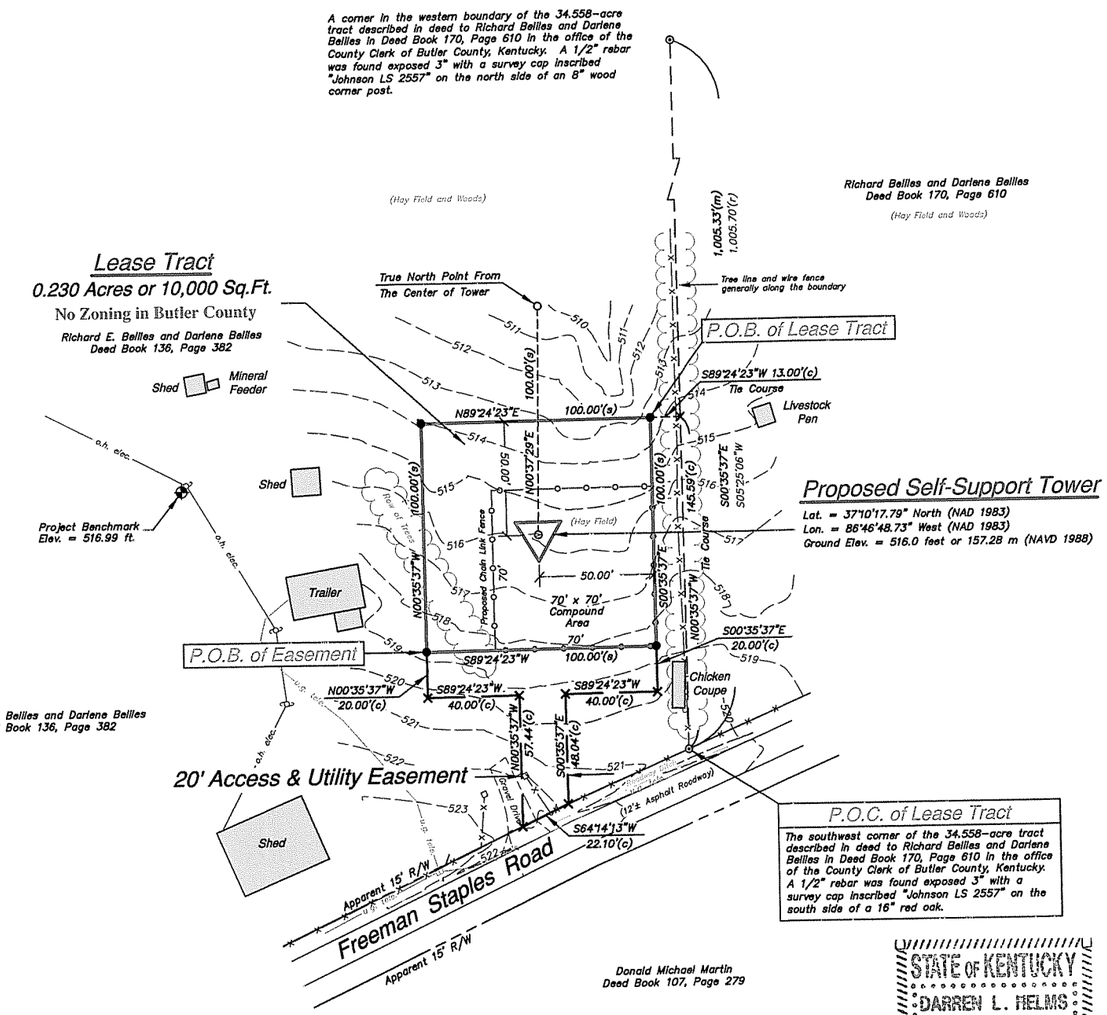
According to the Flood Insurance Rate Map for the Unincorporated Areas of Butler County, Kentucky; Community Panel No. 210029 0075 C, dated June 05, 1989; the subject site lies within "Other Areas Zone X", which is defined as "Areas determined to be outside 500-year flood plain".

Vicinity Map



Directions to Site

From Elizabethtown, Kentucky: travel west on the Western Kentucky Parkway for about 42 miles to Exit 94 and Kentucky Highway 79 near Caneyville; turn left and travel south on Kentucky Highway 79 for about 18 miles to the north side of Morgantown and the intersection of Kentucky Highway 79 and Kentucky Highway 70 near the 104 Express Convenience Store; turn right onto Kentucky Highway 70 and travel west, passing under the William Natcher Parkway at 1.7 miles, 6.5 miles in all to Stringtown Road; turn left onto Stringtown Road and travel south for 0.7 miles to Freeman Staples Road; turn left onto Freeman Staples Road and travel east for 0.3 miles to the tower site on the left or north side of the road near a trailer and shed.



P.O.C. of Lease Tract

The southwest corner of the 34.558-acre tract described in deed to Richard Bellies and Darlene Bellies in Deed Book 170, Page 610 in the office of the County Clerk of Butler County, Kentucky. A 1/2" rebar was found exposed 3" with a survey cap inscribed "Johnson LS 2557" on the south side of a 16" red oak.

GRAPHIC SCALE

30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

Contour Interval = 1-foot

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED PROFESSIONAL LAND SURVEYOR

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 of 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 of the topographic features located on the subject property.

5. According to Mr. David Fields, County Judge Executive of Butler 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 (270) 526-3433 for confirmation.

6. The proposed location of the South Hill cell site will be located outside of an incorporated city.

Legend

- ● 5/8" Rebar Set Flush With A Survey Cap Inscribed "D.L. Helms PLS 3386"
- ○ 5/8" Rebar Set Flush - No Cap
- ⊙ 1/2" Rebar Found Exposed About 3" With A Survey Cap Inscribed "Johnson LS 2557"
- × Calculated Position - No Monument Found or Set
- ——— Subject Boundaries
- — — Easement Boundaries
- —— —— Other Boundaries
- —— - —— Right of Way
- Ø Utility Pole
- E Electric Meter
- ← Guy Anchor
- T Telephone Pedestal
- (m) Measured
- (r) Recorded
- (c) Calculated
- (s) Set

Reduced Copy

Lease Boundary and Easement Description

A tract of land that is located on the north side of Freeman Staples Road and about 1,150 feet easterly of the intersection of said road with Stringtown Road in Butler County, Kentucky; said tract being described as follows:

COMMENCING AT the southwest corner of the 34.558-acre tract described in deed to Richard Bellies and Darlene Bellies on October 25, 2002 in Deed Book 170, page 610 in the office of the County Clerk of Butler County, Kentucky; said corner being monumented by a ½-inch rebar found exposed 3 inches with a survey cap inscribed "Johnson LS 2557" on the south side of a 16-inch red oak; thence, along the western boundary of said Bellies tract, North 00 degrees 35 minutes 37 seconds West 145.59 feet; thence, leaving said western boundary, South 89 degrees 24 minutes 23 seconds West 13.00 feet to a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar in the remainder of this description) at the POINT OF BEGINNING of this description: thence South 00 degrees 35 minutes 37 seconds East 100.00 feet to a rebar set flush; thence South 89 degrees 24 minutes 23 seconds West 100.00 feet to a rebar set flush; thence North 00 degrees 35 minutes 37 seconds West 100.00 feet to a rebar set flush; thence North 89 degrees 24 minutes 23 seconds East 100.00 feet to the point of beginning and containing 0.230 acres (10,000 square feet), more or less.

TOGETHER WITH an access and utility easement from the above-described 0.230-acre lease tract to Freeman Staples Road; said easement being described as follows: BEGINNING AT a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" at the southwest corner of the above-described 0.230-acre lease tract; thence North 89 degrees 24 minutes 23 seconds East 100.00 feet to a 5/8-inch rebar set flush with said Helms survey cap at the southeast corner of the above-described 0.230-acre lease tract; thence South 00 degrees 35 minutes 37 seconds East 20.00 feet; thence South 89 degrees 24 minutes 23 seconds West 40.00 feet; thence South 00 degrees 35 minutes 37 seconds East 48.04 feet to the northwestern boundary of Freeman Staples Road (about 15' feet from the centerline); thence, along said northwestern boundary, South 64 degrees 14 minutes 13 seconds West 22.10 feet; thence, leaving said northwestern boundary, North 00 degrees 35 minutes 37 seconds West 57.44 feet; thence South 89 degrees 24 minutes 23 seconds West 40.00 feet; thence North 00 degrees 35 minutes 37 seconds West 20.00 feet to the point of beginning.

The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (2007), as determined by G.P.S. observations made on October 14, 2009 using the National Geodetic Survey monument "GPS 45". These descriptions are based upon a survey completed by Landmark Surveying Co., Inc. and certified by Darren L. Helms, P.L.S. 3386, on October 29, 2009. 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 Richard E. Bellies and Darlene Bellies on June 8, 1994 in Deed Book 136, page 382 in the office of the County Clerk of Butler County, Kentucky.

Surveyor's Certification

I hereby certify that this plat has been compiled from a survey actually made upon the ground under my direct supervision on October 14, 2009 by the method of baseline survey with sideshots. The unadjusted precision ratio of the baseline was 1:28,700 and it was not adjusted. This survey is a Class B survey and the accuracy and precision of this survey meets all the specifications of this class.

Darren L. Helms
Darren L. Helms, P.L.S. 3386

OCT. 29, 2009
Date

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0550
Email: landmark578@sbcglobal.net
Project No. 09-10-0175

Lease Boundary Survey
231 Freeman Staples Road
Morgantown, Kentucky 42261

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE 10-29-09
DRAWN BY A. Winkler
CHECKED BY D.L.Helms

SHEET NO. 1 OF 1 SHEETS

FILE NO. south hill.dwg

BLUEGRASS CELLULAR

APPROVAL SIGNATURES

BLUEGRASS CELLULAR PROJECT SUPERVISOR: _____

DATE: _____

CITY REPRESENTATIVE: _____

TITLE: _____

DATE: _____

PROPERTY OWNER/OWNERS: _____

_____

DATE: _____

TOWER OWNER/OWNERS: _____

_____

DATE: _____

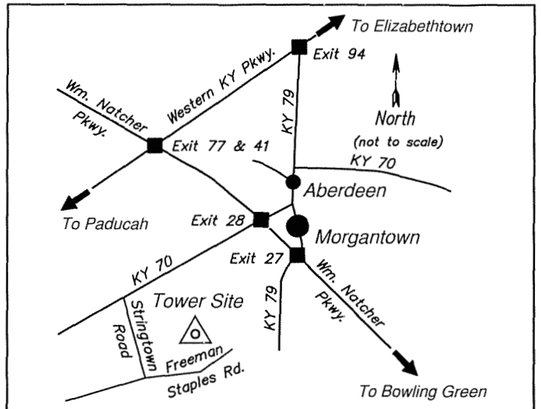
SITE NAME: SOUTH HILL

**911 ADDRESS: 231 FREEMAN STAPLES RD.
MORGANTOWN, KY. 42261**

COUNTY: BUTLER

TOWER LATITUDE & LONGITUDE

N37* 10' 17.79" W86* 46' 48.73"



VICINITY MAP
NOT TO SCALE

DIRECTIONS TO SITE

From Elizabethtown, Kentucky: travel west on the Western Kentucky Parkway for about 42 miles to Exit 94 and Kentucky Highway 79 near Caneyville; turn left and travel south on Kentucky Highway 79 for about 18 miles to the north side of Morgantown and the intersection of Kentucky Highway 79 and Kentucky Highway 70 near the IGA Express Convenience Store; turn right onto Kentucky Highway 70 and travel west, passing under the William Natcher Parkway at 1.7 miles, 6.5 miles in all to Stringtown Road; turn left onto Stringtown Road and travel south for 0.7 miles to Freeman Staples Road; turn left onto Freeman Staples Road and travel east for 0.3 miles to the tower site on the left or north side of the road near a trailer and shed.

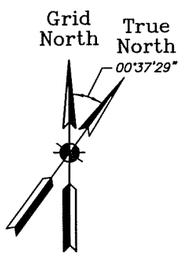
SHEET INDEX

SHEET NO.	DESCRIPTION	REVISION
TITLE SHEET	TITLE SHEET	
SURVEY	SURVEY	
A-1	SITE PLAN	
A-2	FENCE DETAILS	
ANTENNA DETAILS 1	ANT.SPECS/TOWER ELEV.	
ANTENNA DETAILS 2	ANTENNA DETAILS 2	
E-1	SITE PLAN - ELECTRICAL	
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	

SITE DATA

PROPERTY OWNER:	Richard E. and Darlene Bellies 9685 Provo Rd. (270) 934-4767
TOWER OWNER:	BLUEGRASS CELLULAR (270) 769-0339
POWER COMPANY:	WARREN RECC (270) 526-3384
TELEPHONE COMPANY:	SOUTH CENTRAL BELL (270) 288-6007
BLUEGRASS PROJECT SUPERVISOR:	JEFF BREWER (270) 734-3436
RB DESIGN	ROBIN BECKER (502)231-3656 OFFICE/FAX

Site: South Hill
Lease Boundary and Topographic Survey
Butler County, Kentucky



Basis of Bearings

The bearing system of this survey is based upon G.P.S. observations made on October 4, 2009 using the National Geodetic Survey monument "GPS 45" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (2007). This system is grid north.

Tower Location Information

Designation: South Hill
Site ID#: None
Horizontal Datum: NAD 1983 (2007)
Latitude: 37°10'17.79" North
Longitude: 86°46'48.73" West
Vertical Datum: NAVD 1988
Ground Elevation: 516.0 feet (157.28 m)
State Plane Coordinates
Northing: 1,947,256.94 feet (593,525.102 m)
Easting: 1,340,262.28 feet (408,512.760 m)

Landowner Information

Landowner: Richard E. and Darlene Bailes
Address: 9685 Provo Road
Rochester, Kentucky 42273
Contact Person: Richard E. Bailes
Phone: 270-934-4767
PVA Map No. 037-00-00-002.00

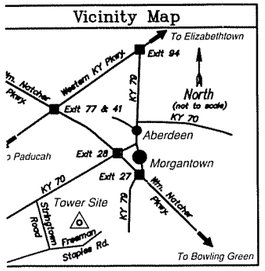
Project Bench Mark

Northing: 1,947,280 feet (593,532 m)
Easting: 1,340,108 feet (408,466 m)
Elevation: 516.99 feet (157.579 m)
Description: A railroad spike set in the south side of a utility pole, 12" above grade. The benchmark is approximately 156 feet west of the center of the tower.

Flood Plain Statement

According to the Flood Insurance Rate Map for the Unincorporated Areas of Butler County, Kentucky; Community Panel No. 210029 0075 C, dated June 05, 1989; the subject site lies within "Other Areas Zone X", which is defined as "Areas determined to be outside 500-year flood plain".

Vicinity Map



Directions to Site

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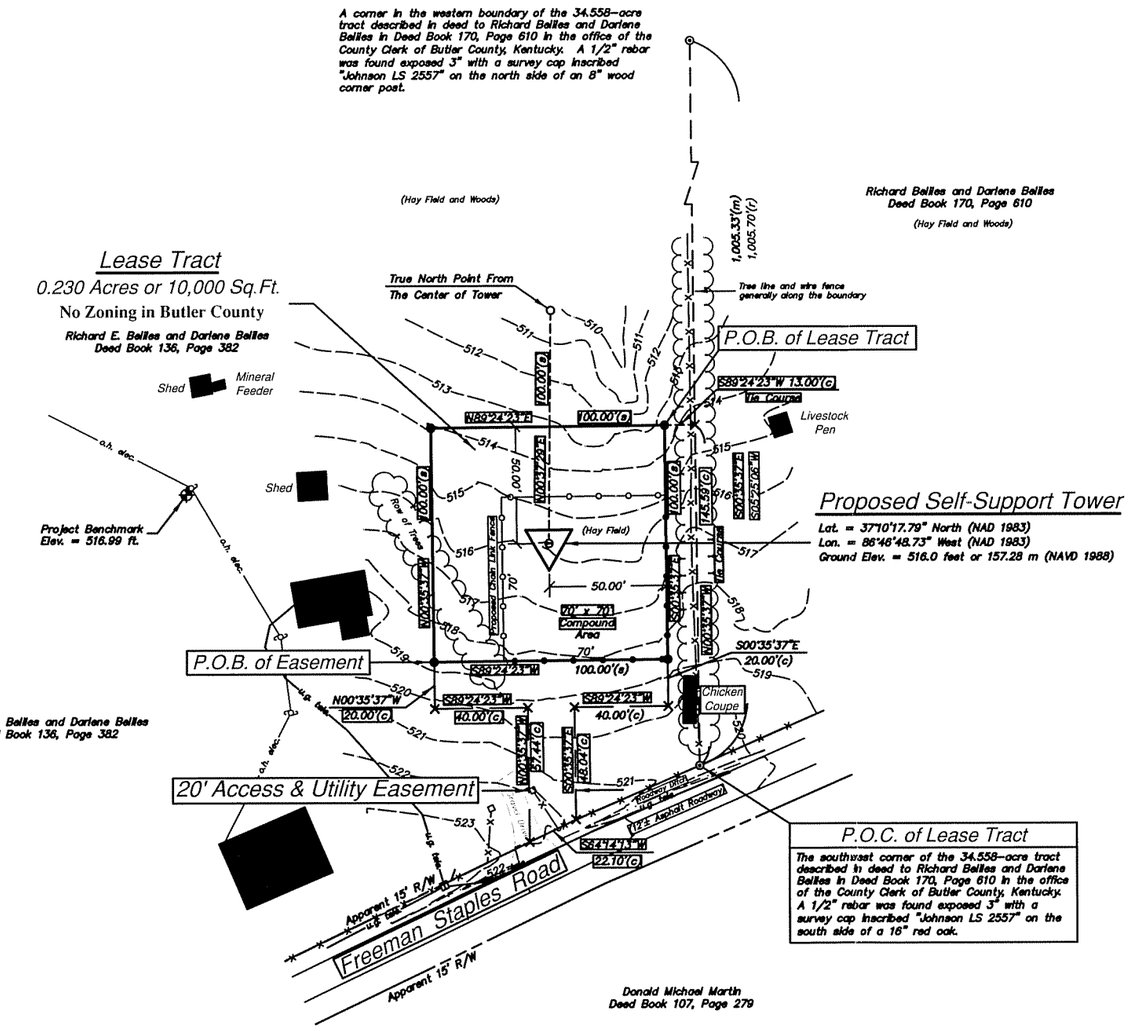

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

Contour Interval = 1-foot

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 of 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 of the topographic features located on the subject property.

5. According to Mr. David Fields, County Judge Executive of Butler 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 (270) 526-3433 for confirmation.

6. The proposed location of the South Hill cell site will be located outside of an incorporated city.

Legend

- ● 5/8" Rebar Set Flush With A Survey Cap Inscribed "D.L. Helms PLS 3386"
- ○ 5/8" Rebar Set Flush - No Cap
- ⊙ 1/2" Rebar Found Exposed About 3" With A Survey Cap Inscribed "Johnson LS 2557"
- × Calculated Position - No Monument Found or Set
- Subject Boundaries
- Easement Boundaries
- Other Boundaries
- Right of Way
- Utility Pole
- Electric Meter
- Guy Anchor
- Telephone Pedestal
- (m) Measured
- (r) Recorded
- (c) Calculated
- (s) Set

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Darren L. Helms, P.L.S. 3386

Date

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0950
Email: landmark97@sbcglobal.net
Project No. 09-10-075

Lease Boundary Survey
231 Freeman Staples Road
Morgantown, Kentucky 42261

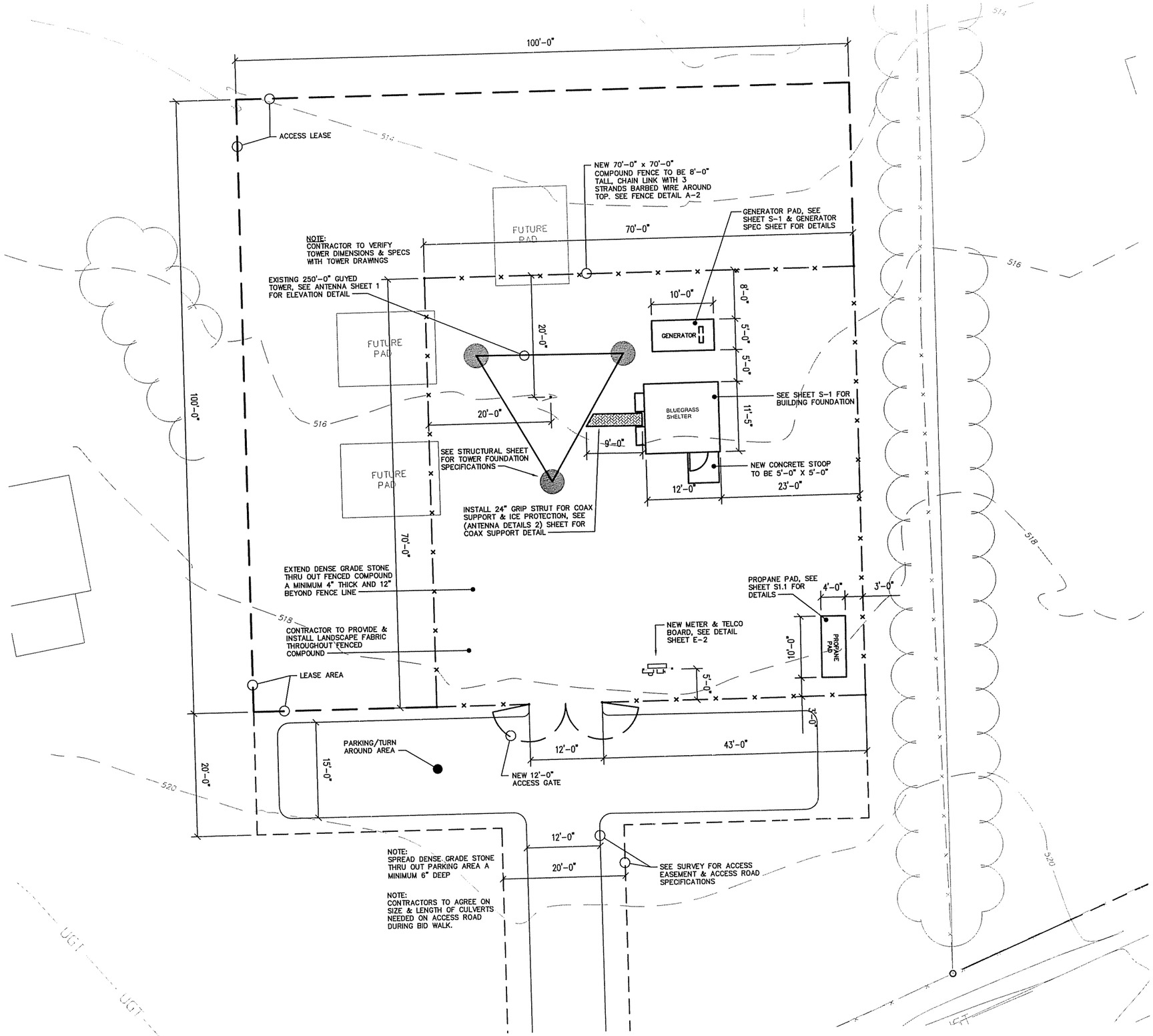
Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE 10-29-09 | DRAWN BY A. Winkler | CHECKED BY D.L.Helms

SHEET NO. 1 OF 1 SHEETS

FILE NO. south hill.dwg



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 S1.1

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 OF 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 NOTESHEET

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, HOOKUP, ETC..

SITE PLAN

SCALE: 1/16"= 1'-0"

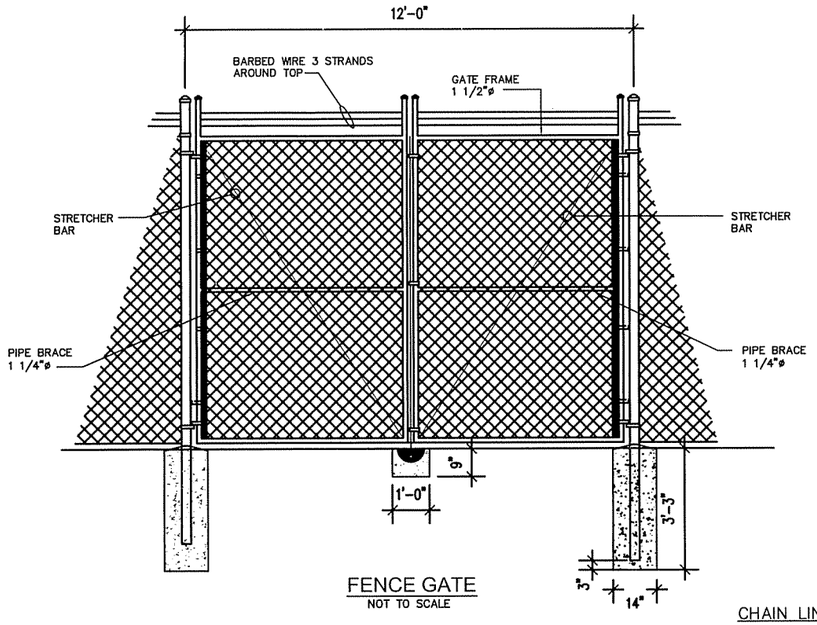
R.B.S. DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502)599-9427 Fax(502)231-3656

NO.	DATE	REVISION

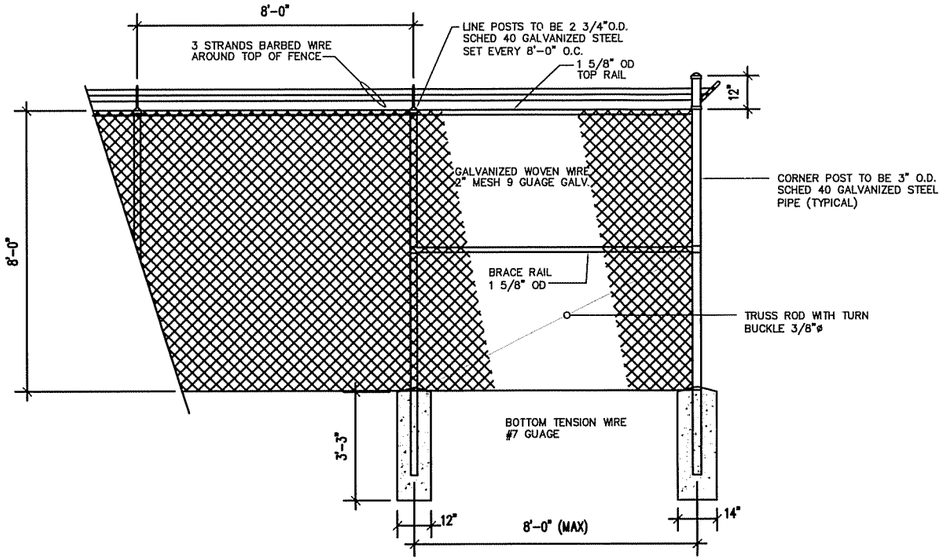
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
A-1



FENCE GATE
NOT TO SCALE



FENCE DETAIL END POLES
NOT TO SCALE

CHAIN LINK FENCING NOTES:

1 FABRIC: THE FABRIC SHALL BE COMPOSED OF INDIVIDUAL HOT DIP GALVANIZED WIRE PICKETS HELICALLY 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 HAVE A TWISTED AND BARBED

2 POSTS: SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALVINIZED. 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.C. STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS AVRERAGING 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 GUAGE AND DESIGN. USED ON TOP OF RAIL EVERY 24" AND ONE POST EVERY 12".

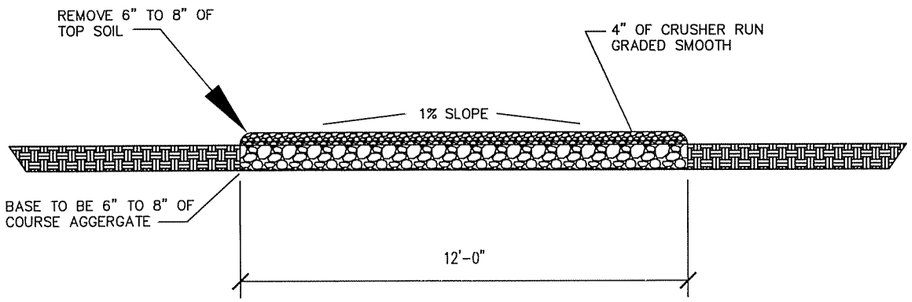
5 EXTENSION ARMS: CAST STEEL GALVANIZED TO ACCOMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.

6 BARBED WIRE (STEEL): ASTM A121 GALVINIZED STEEL, 12 GUAGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.

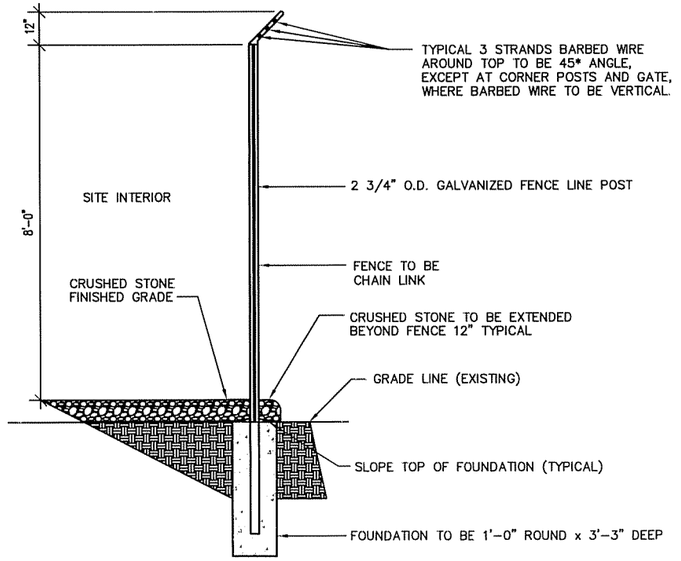
7 SWING GATE POSTS: SHALL BE 3" O.C. STANDARD HOT GALVINIZED, WEIGHING 5.79 LBS. PER FOOT.

8 GATES: (g) SWING GATES: 2" O.C. STANDARD PIPE WITH INTERNAL BRACING OF 1 5/8" O.D. STANDARD PIPE; WELDED AT ALL JOINTS TO PROVIDE RIGID WATERTIGHT CONSTRUCTION. FABRIC SAME 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
NOT TO SCALE



FENCE DETAIL LINE POLES
NOT TO SCALE

RF DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502)598-3427 Fax(502)231-3856

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

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 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.

CONTRACTOR TO EXTEND HARDLINES INTO BUILDING 12" & INSTALL POLYPHASERS, PER INSTRUCTION OF PROJECT SUPERVISOR.

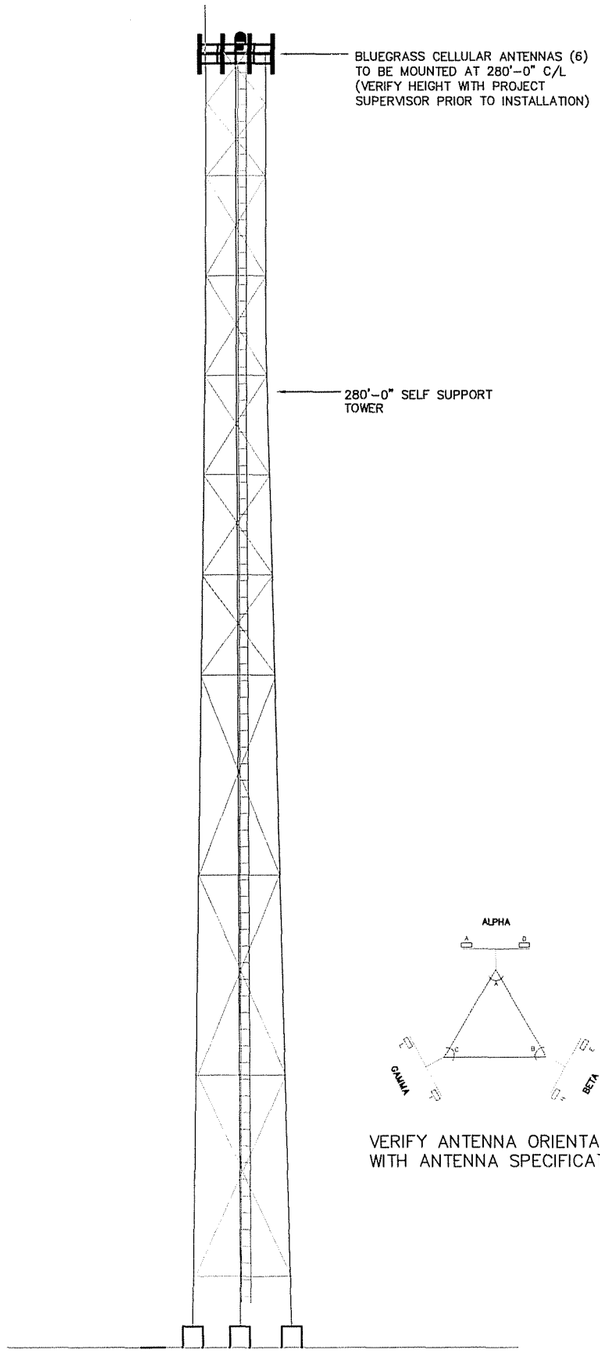
CONTRACTORS TO SUPPLY POLYPHASERS OR LIKE UNITS TO BE INSTALLED AND GROUNDED TO GROUND BAR INSIDE BUILDING AT WAVE GUIDE ENTRANCE. GO TO SUPPLY GROUND CABLE & LUGS.

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



SELF SUPPORT TOWER ELEVATION (TYPICAL)

VERIFY ANTENNA ORIENTATION WITH ANTENNA SPECIFICATIONS

TOWER HEIGHT & TYPE

280'-0" SELF SUPPORT TOWER

ANTENNA SPECS

	TYPE	SIZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	AP13-880-850D ADT-XP	L=78.6 W=10.3 D=4.6	6	60*, 160*, 260*	280'-0" C/L VERIFY WITH CONSTRUCTION SUPERVISOR
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 (PRIMARY)	ANDREW	1-5/8"	6
TRANSMISSION LINE (SECONDARY)			

DISH SPECS

	MICROWAVE/DONOR	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
DISH #1					
DISH #2					

DISH MOUNT SPECS

	TYPE	SIZE	NUMBER
MOUNT #1			
MOUNT #2			

DISH TRANSMISSION LINES

	TYPE	SIZE	NUMBER
TRANSMISSION LINE #1			
TRANSMISSION LINE #2			

ANTENNA SYNOPSIS

* ANTENNAS TO HAVE A 2*E
* ANTENNA FREQUENCY 880.00 – 890.00

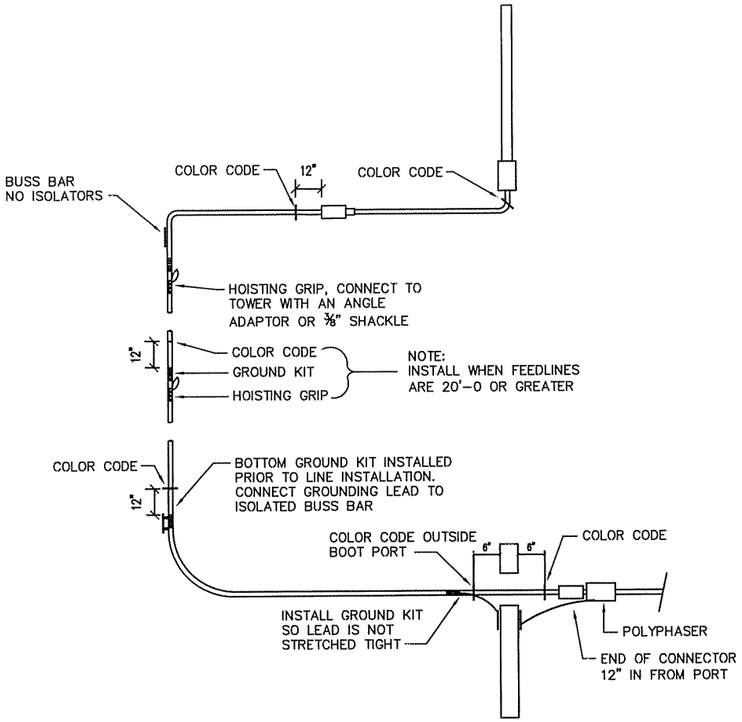
BEC
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502)231-3556 Fax(502)968-3427

REVISION | DATE | NO.

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

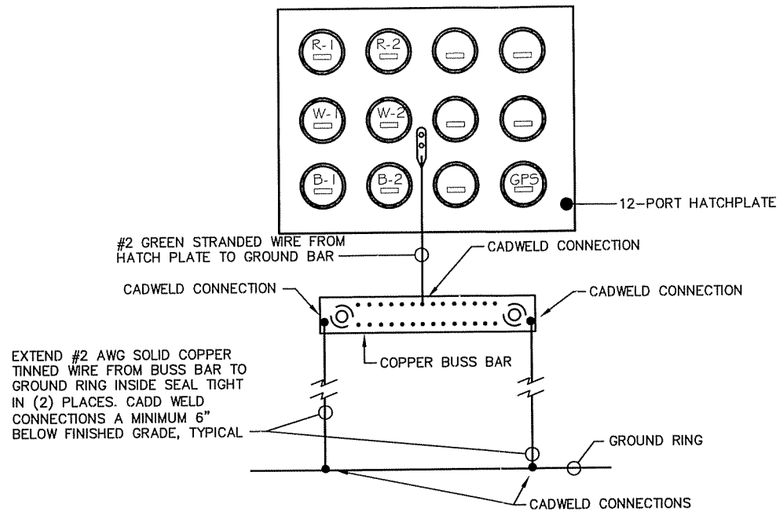
DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
ANTENNA DETAILS 1



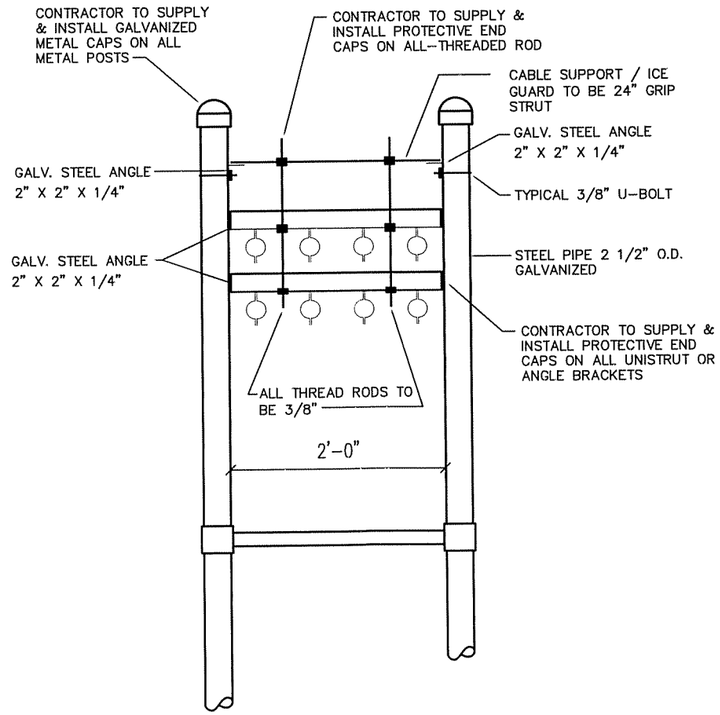
COLOR CODING DETAIL

NO SCALE



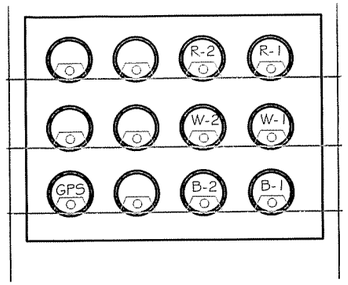
BOOT PORT GROUNDING DETAIL

NO SCALE



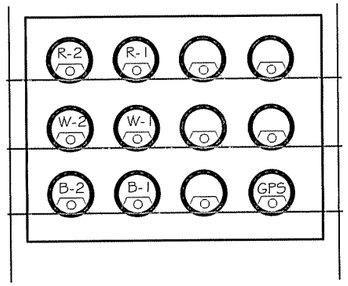
ICE BRIDGE / COAX SUPPORT DETAIL

NO SCALE



COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELTER)

NO SCALE



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

NO SCALE

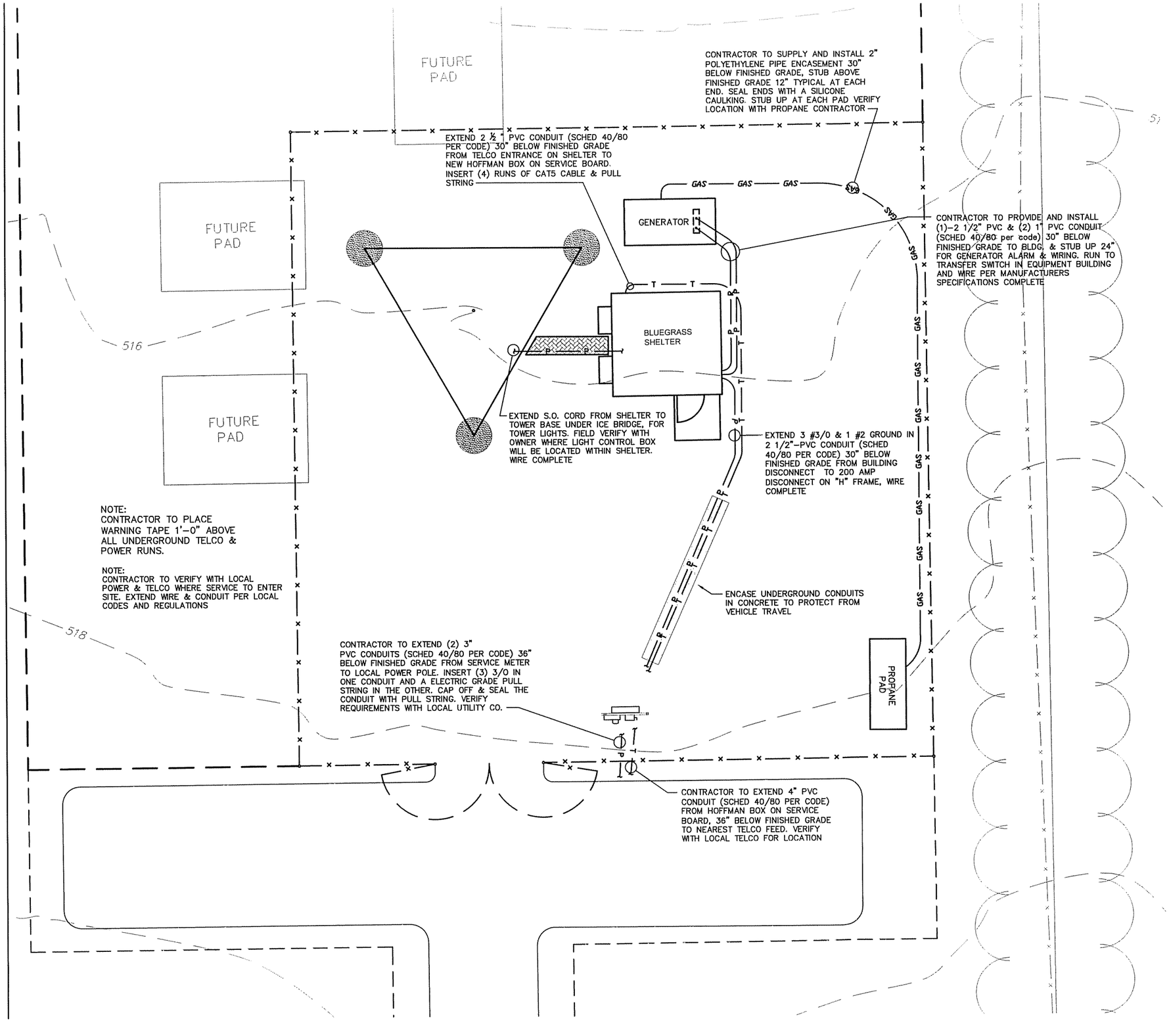
B.E.S.I.G.N.
605 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)968-9427 Fax(502)231-3835

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
ANTENNA DETAILS 2



GENERAL ELECTRICAL 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 WITH IN THE COMPOUNDS FENCED AREA.

4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CAD WELD 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 CLEANED 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

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

SYMBOLS LEGEND

- P — POWER
- G — GAS
- T — TELEPHONE
- X — FENCE
- SWITCH (DISCONNECT)
- M — METER PACK

SITE PLAN- ELECTRICAL

SCALE: 3/32" = 1'-0"

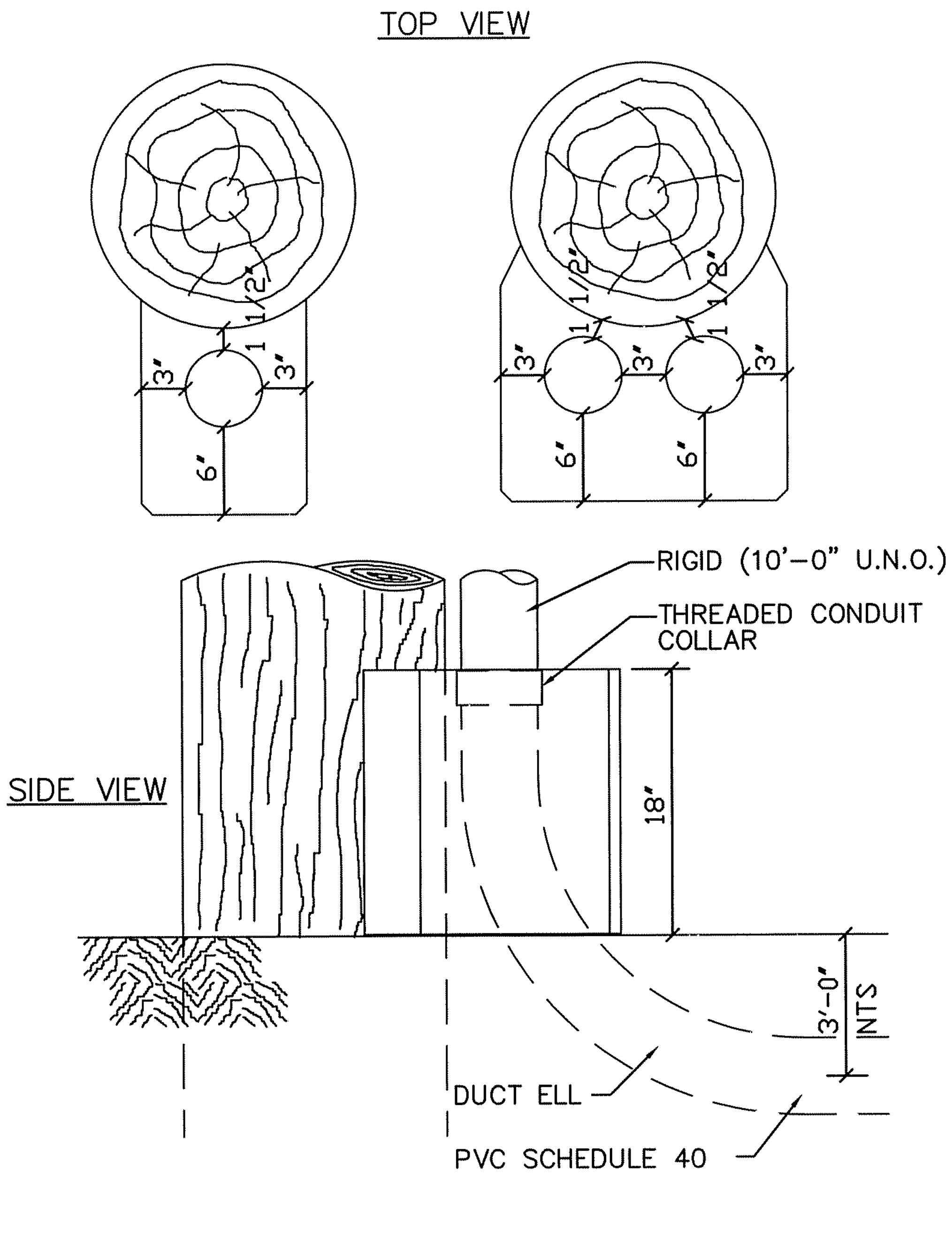
BLUE GRASS CELLULAR INC.
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502)231-3656 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

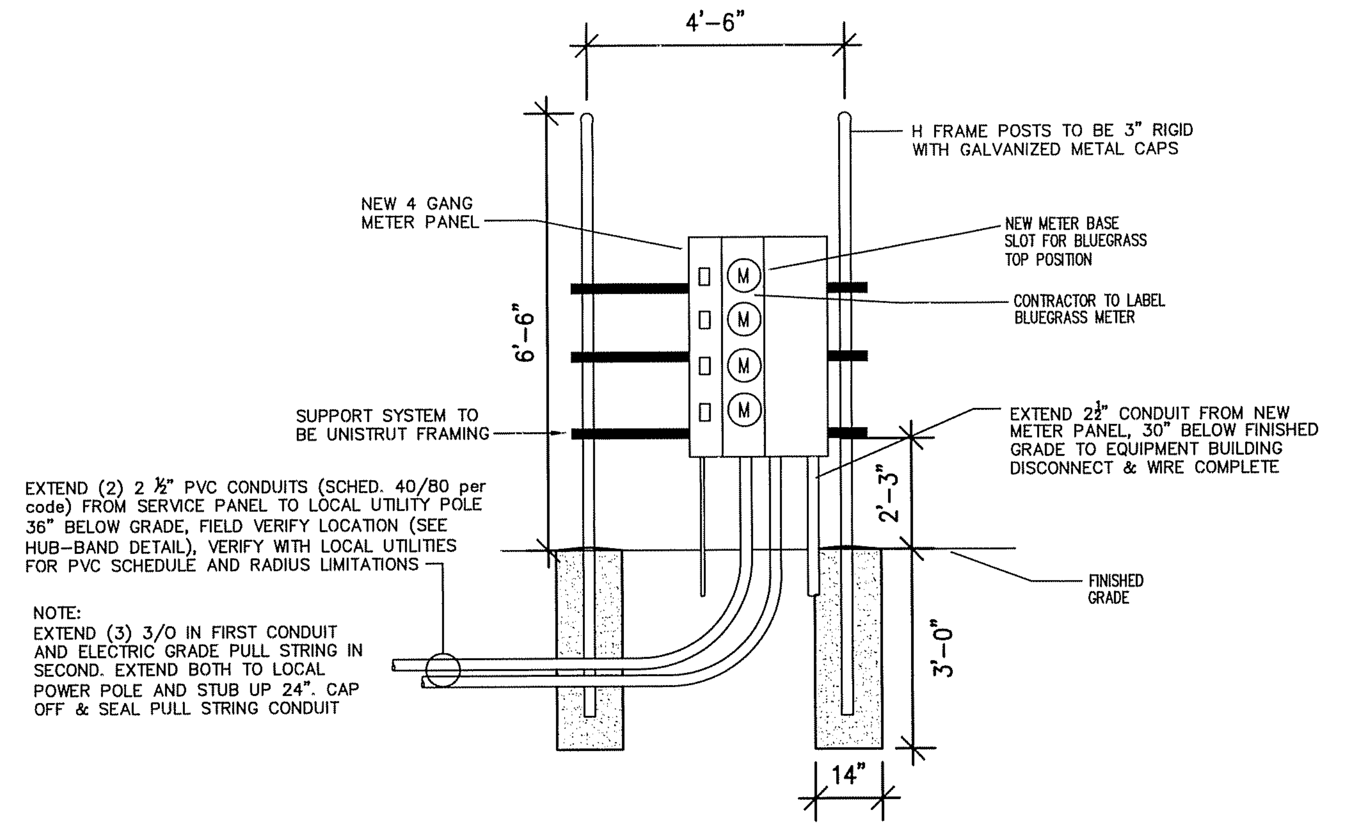
DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
E-1



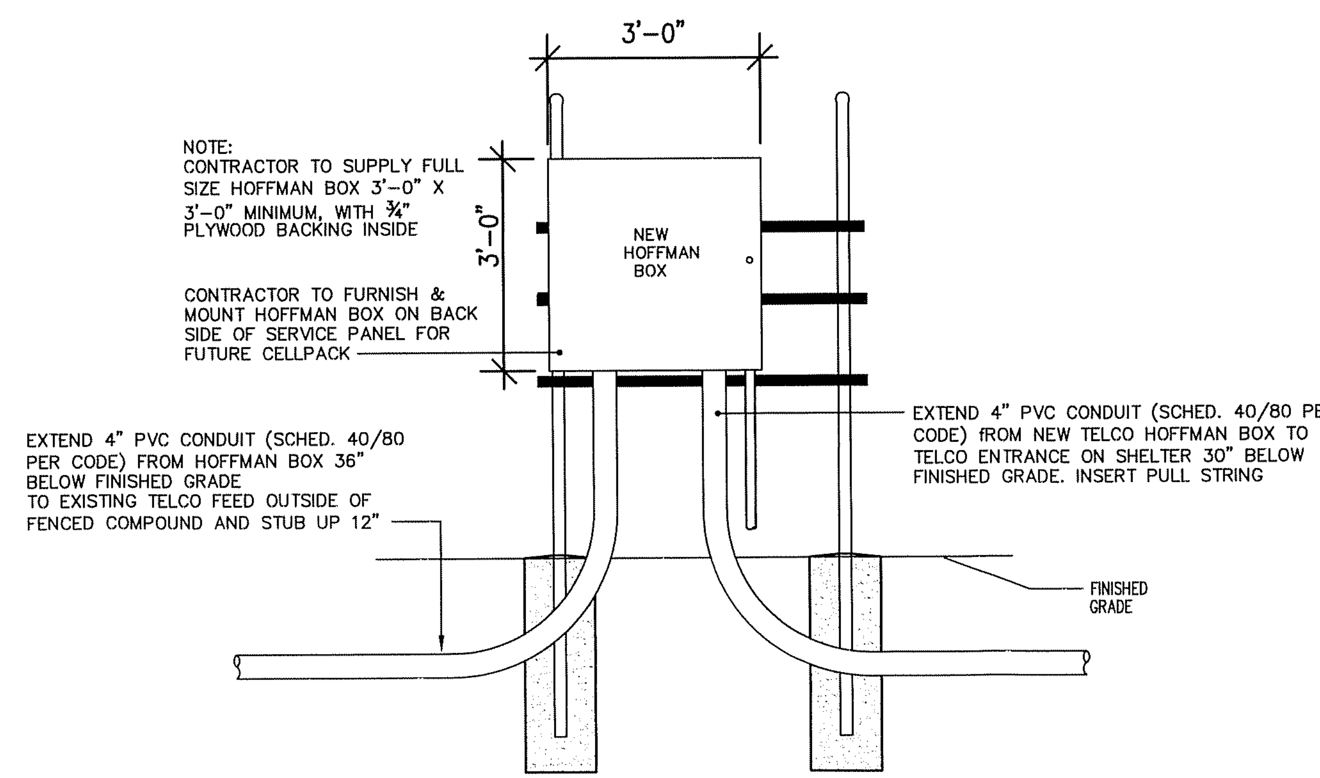
HUB-BAND DETAIL

NO SCALE



SERVICE BOARD DETAIL

NO SCALE



BACKBOARD DETAIL

NO SCALE

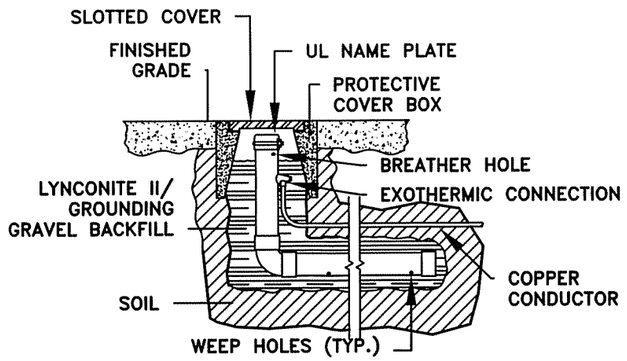
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502) 599-3427 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

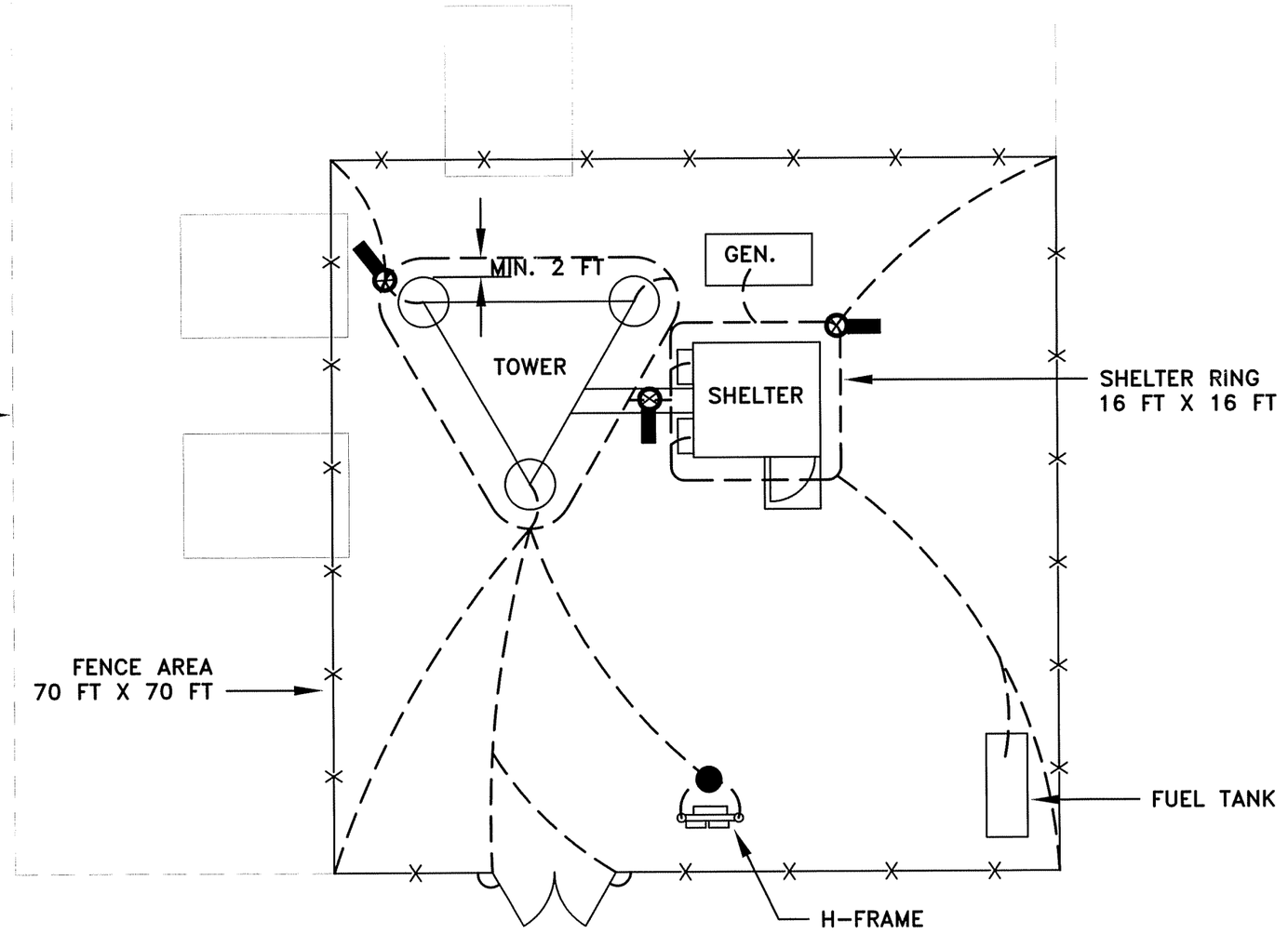
DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
E-2



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

DETAIL

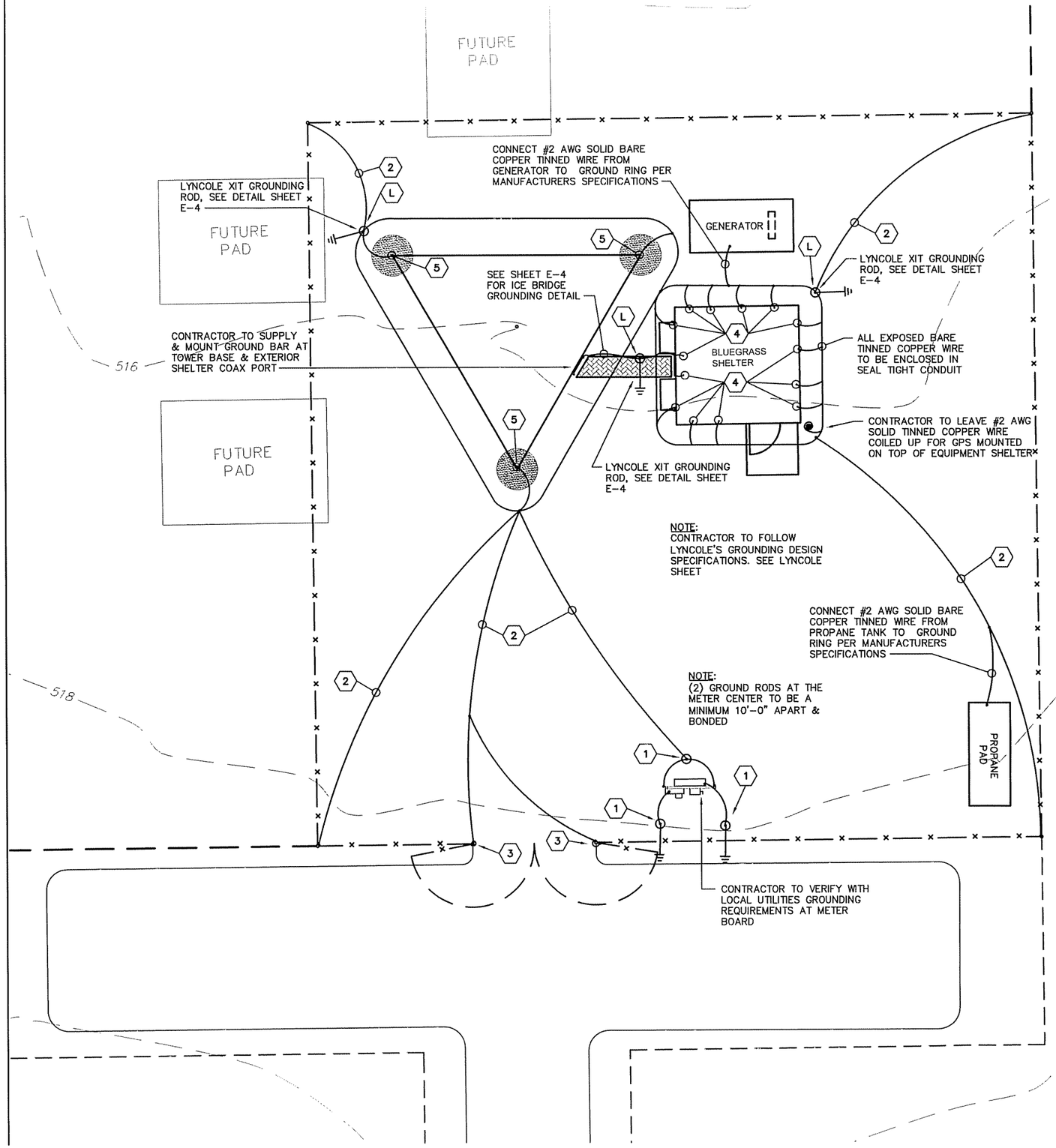


NOTES:

- 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
- 3/4 IN. X 10 FT. COPPER CLAD DRIVEN ROD
- K2L-10CS (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	SOUTH HILL
TITLE	GROUNDING OPTION
LOCATION: CITY, STATE	MORGANTOWN, KY
CALCULATED RESISTANCE	< 5 OHMS
DRAWN BY	DCN
APPROVED BY	
DATE	11/11/09
SOIL DATA PROVIDED BY	PATRIOT ENGINEERING
REFERENCE NUMBER	N/A
SCALE	NONE
LTS NUMBER	090199



GENERAL ELECTRICAL 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.

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

NOTE:
CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDER GROUND. TAPE TO BE INSTALLED AT 9" BELOW GRADE.

NOTE:
CONTRACTOR TO FOLLOW LYNCOLES 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 MANUFACTURERS SPECIFICATIONS. (SEE LYNCOLE SPECIFICATIONS)

(1) GROUNDING RODS 10'-0" LONG x 3/4" COPPER BONDED GROUND RODS

(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 "CAD WELD" CONNECTIONS)

(3) FLEXIBLE GROUNDING STRAP 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) BONDED 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 TO "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: 3/32" = 1'-0"

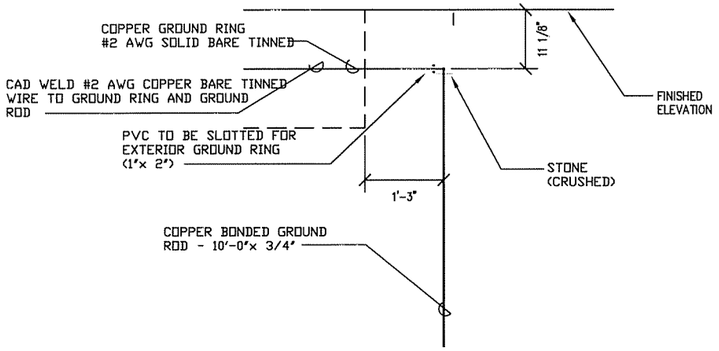
RBS ENGINEERING
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)969-3427 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

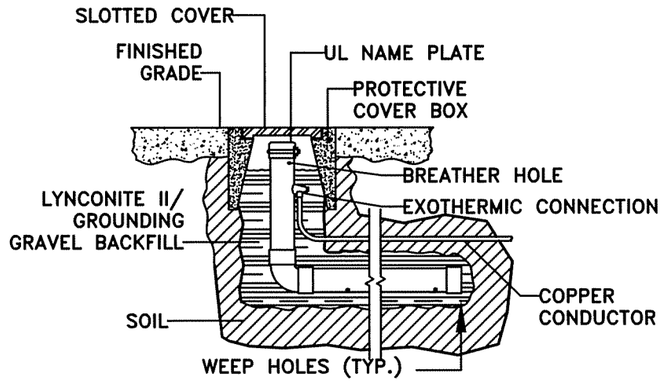
DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
E-3



GROUND ROD DETAIL

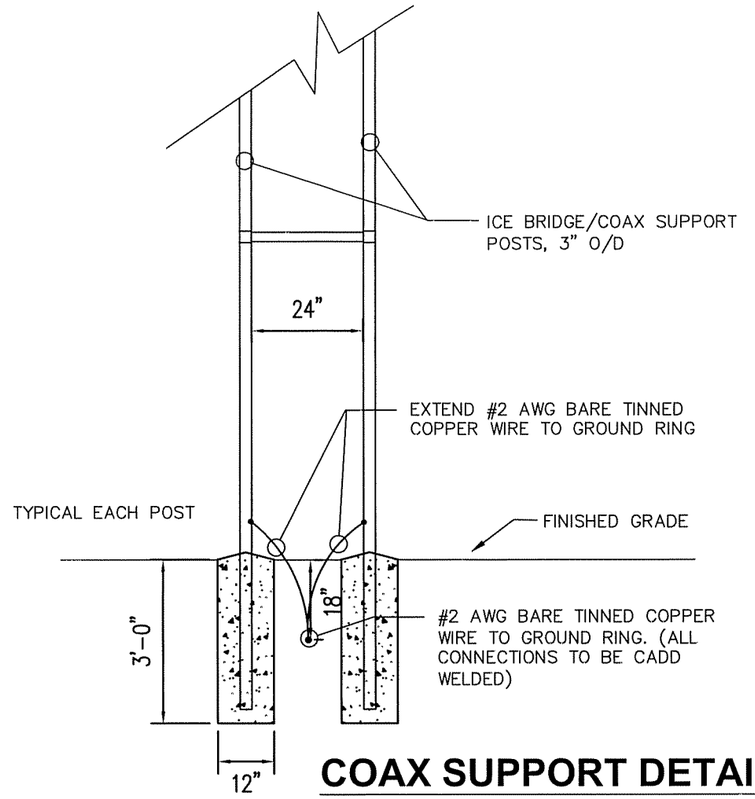
NO SCALE



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

LYNCOLE XIT ROD DETAIL

NO SCALE



COAX SUPPORT DETAIL

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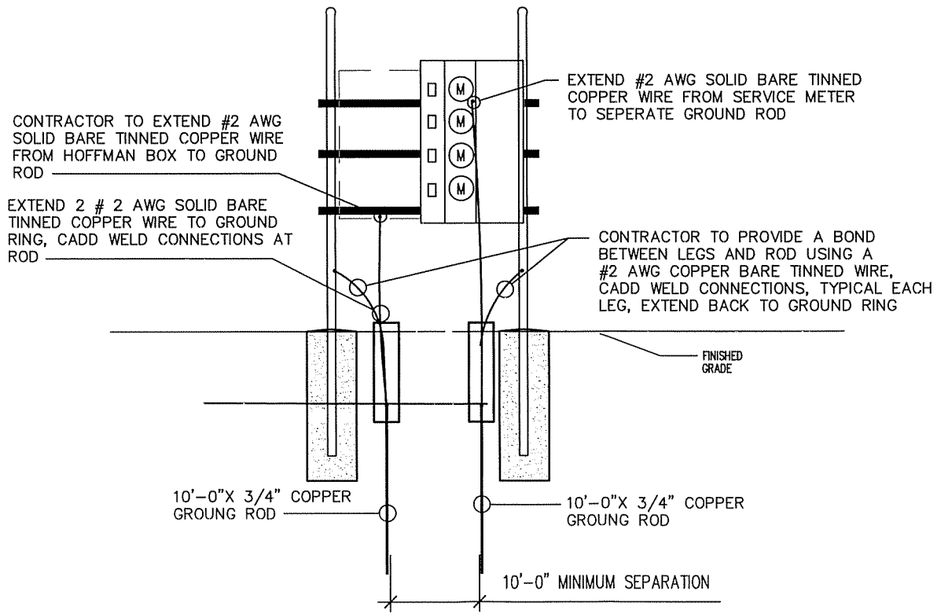


SERVICE BOARD DETAIL

NO SCALE

BELL
6403 MERCURY DRIVE LOUISVILLE KY. 40291
(502)968-3427 Fax(502)231-3856

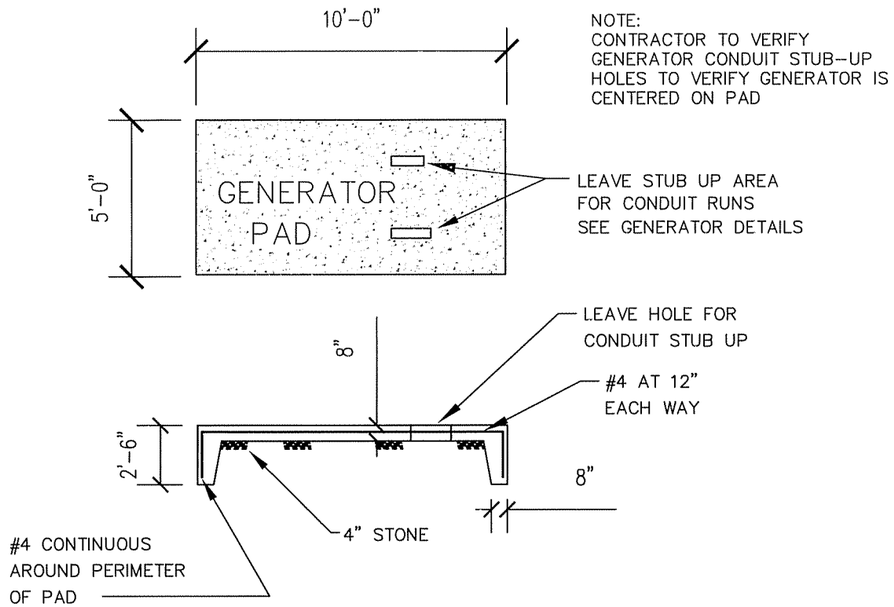
REVISION

NO.	DATE

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

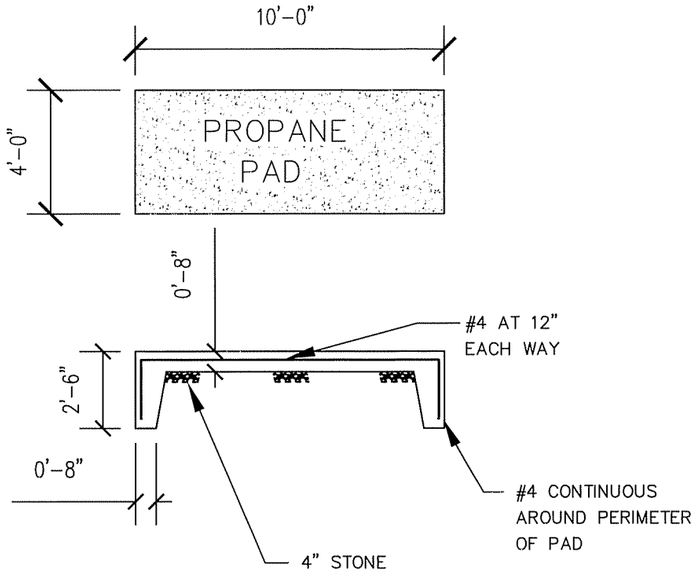
DRAWN BY:	ISSUE DATE:	SCALE:
R. BECKER	11-09-09	LISTED

SHEET NUMBER
E-4



FOUNDATION DETAIL

NO SCALE



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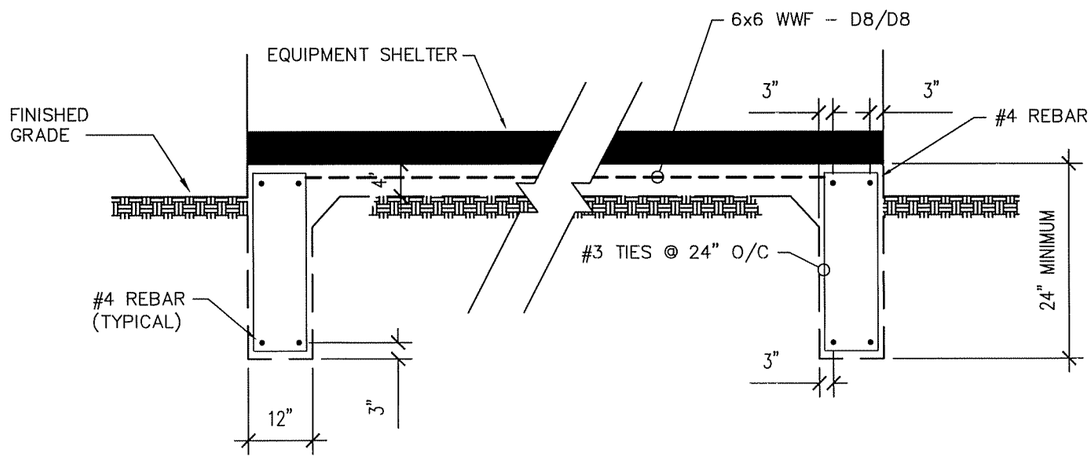
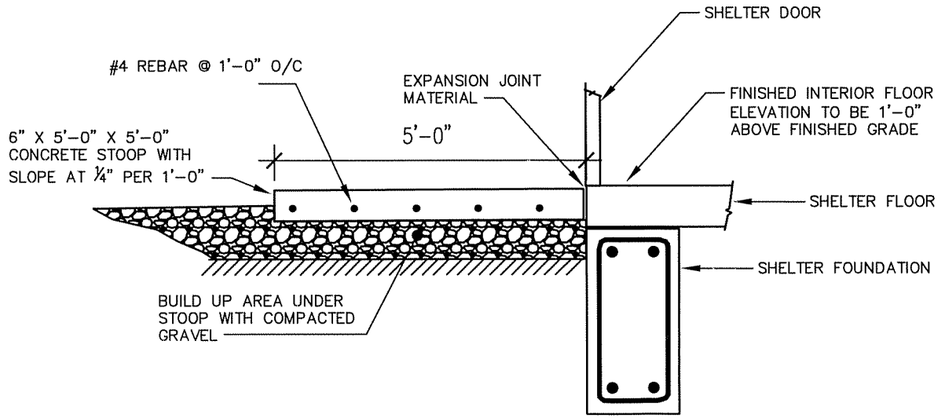


SHELTER FOUNDATION PLAN

NO SCALE



CONCRETE STOOP DETAIL

NO SCALE

BLUEGRASS ENGINEERING
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)239-3427 Fax(502)231-3838

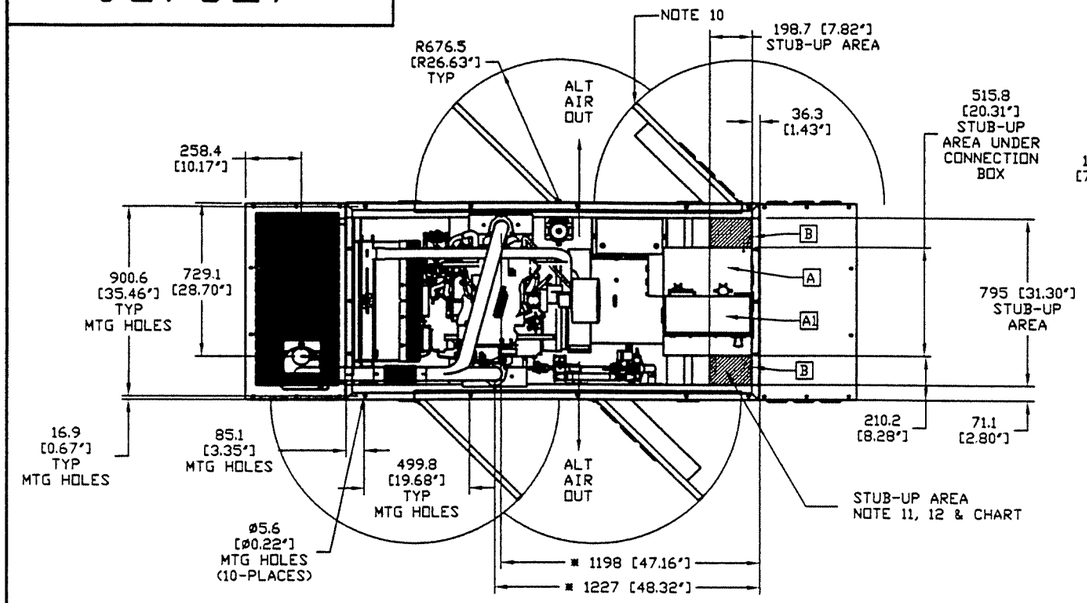
REVISION | DATE | NO.

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

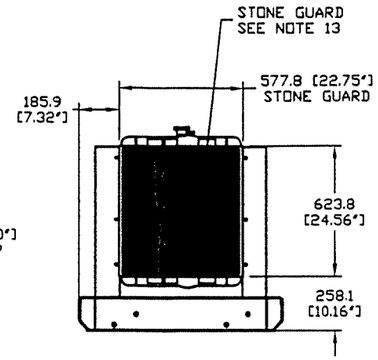
DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
S-1

0G7627



TOP OR PLAN VIEW



RADIATOR END VIEW WITH STONE GUARD OPTION

RECOMMENDED FUEL/ELECTRICAL STUB-UPS (SEE TOP VIEW)	
DESCRIPTION	INSIDE BASE
AC LOAD LEAD CONDUIT (RIGHT) (LEFT)	A A1
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]

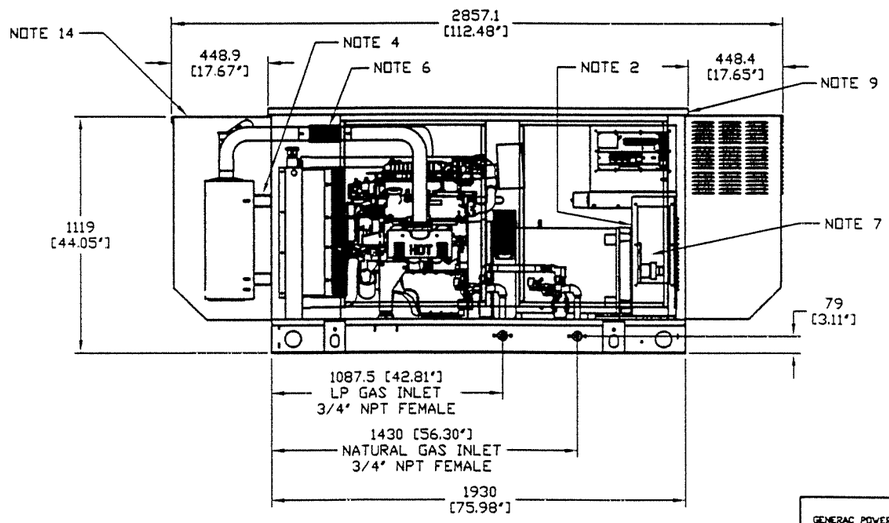
ENGINE SERVICE CONNECTIONS

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:

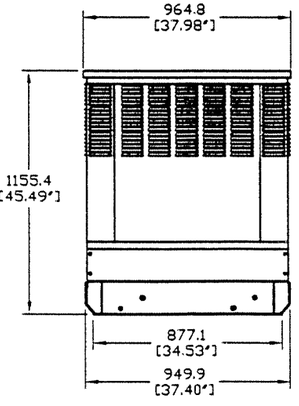
1. CONTROL PANEL MAY BE ROTATED 180° IN EITHER DIRECTION.
2. STANDARD 20A GFCI DUPLEX OUTLET - 120VAC REQUIRED.
3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN AC CONNECTION PANEL.
4. EXHAUST MUFFLER SUPPORT BRACKETS SUPPLIED WITH OPTIONAL ENCLOSURE.
5. 12 VOLT NEGATIVE GROUND SYSTEM.
6. 2.5" I.D. 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 A1 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.

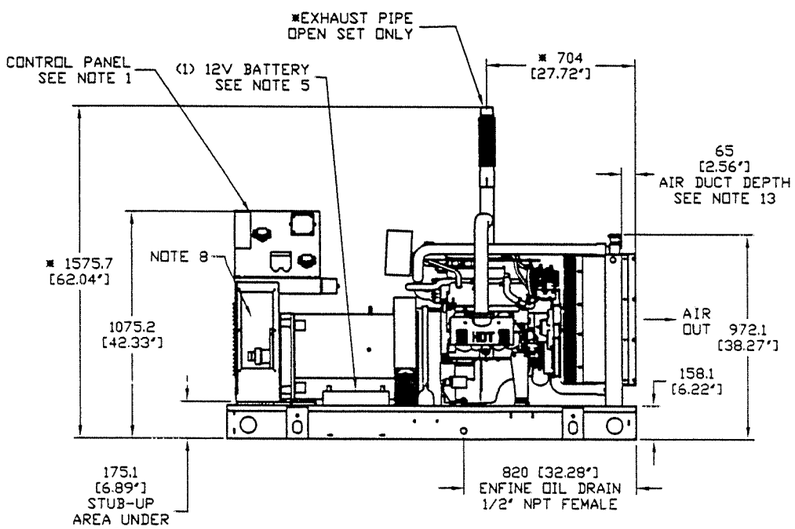


LEFT SIDE VIEW

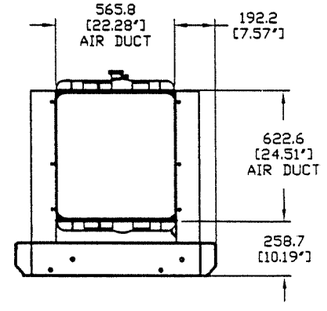
APPLICABLE TO 4.5L G3 35, 40 & 45KW



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 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 CHANGE 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 ON SITE WORK MEANS AND METHODS.

10) CONTRACTOR, ANY CONTRACTOR EMPLOYEES OR REPRESENTATIVES, OR SUB-CONTRACTOR, 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 ANY 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) CONTRACTOR'S 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 WEATHERSTRIPPING 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 OPERATION OF ENVIRONMENTAL CONTROLS AND HVAC UNITS
* INSTALL AND PAINT SHELTER TIE-DOWNS TO MATCH

15) INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, 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 AND 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 TRASHCAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN AND DOORMAT 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 FOUNDATION KIT, 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 FENCING.

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 GENERAL CONTRACTOR 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 AND EMERGENCY PHONE NUMBERS ON 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, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, AERATE, MOISTURE – CONDITION, OR PULVERIZE SOIL AND RECOMPACT 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 EXCAVATING, AREA TO BE CLEANED AND CLEARED OF 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)

"CALL BEFORE YOU DIG"

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE 811 IN KENTUCKY , WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE @ 12 INCHES BELOW GRADE.

SYMBOLS LEGEND

Symbol	Description
(hexagon)	KEYNOTE
←—⊙	INSPEC. SLEEVE / GRND ROD
⊙	INSPECTION SLEEVE
•	CAD WELD CONNECTION
T	TRANSFORMER
	LIGHTNING SUPPRESSOR
	SWITCH (DISCONNECT)
M	METER PACK
—P—	POWER
—G—	GAS LINE
—W—	WATER LINE
—SS—	SANITARY SEWER
—T—	TELEPHONE
—SSD—	STORM SEWER DRAIN
—X—	FENCE

A&E DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502) 599-3427 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
SOUTH HILL
231 FREEMAN STAPLES RD. MORGANTOWN, KY. 42261

DRAWN BY: R. BECKER
ISSUE DATE: 11-09-09
SCALE: LISTED

SHEET NUMBER
General Notes

Landmark Surveying Co., Inc.

Darren L. Helms, P.L.S., PRESIDENT
Dennis N. Helms, P.L.S., VICE PRESIDENT

15 N.E. 3rd Street
Washington, Indiana 47501
Phone: 812-257-0950
Fax: 812-257-0953
Email: landmark97@sbcglobal.net

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

Bluegrass Cellular, Inc.
South Hill Site
Butler County, Kentucky

From the Butler County courthouse in downtown Morgantown, Kentucky: travel south on Kentucky Highway 79 (G.L. Smith Street) for 0.50 miles to the intersection of Kentucky Highway 79 and Kentucky Highway 70 near the IGA Express Convenience Store; turn left onto Kentucky Highway 70 and travel west, passing under the William Natcher Parkway at 1.7 miles, 6.5 miles in all to Stringtown Road; turn left onto Stringtown Road and travel south for 0.7 miles to Freeman Staples Road; turn left onto Freeman Staples Road and travel east for 0.3 miles to the tower site on the left or north side of the road near a trailer and shed. The address of the site is 231 Freeman Staples Road, Morgantown, Kentucky 42261.

Darren L. Helms

Darren L. Helms, Kentucky Professional Land Surveyor No. 3386

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

October 29, 2009
Date

Site Name: South Hill

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 23 day of September 2009, by and between Richard E. Beliles and Darlene Beliles, husband and wife, whose address is 9685 Provo Road, Rochester, KY 42273 (the "Optionor (s)" and Kentucky RSA 3 Cellular General 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").

WITNESSETH:

WHEREAS, the Optionor(s) is the owner of certain real property located in Butler 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 20 Mar 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: **9685 Provo Road, Rochester, KY 42273**; 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 Butler 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: South Hill

EXECUTION OF AGREEMENT(S)

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

Richard E. Beliles

Date: 9-21-09

Darlene Beliles

Date: 9-21-09

("Optionor(s)")

By: Richard E Beliles and Darlene Beliles
Property Owner(s)

Date: 9/23/9

("Optionee")

By: Ron Smith
Authorized Representative

STATE OF Kentucky
COUNTY OF Butler

The foregoing instrument was acknowledged before me this 21st day of Sept., 200 9, by Richard E. Beliles & Darlene Beliles to be his/her free act and deed.

Jennie Adkins

NOTARY PUBLIC STATE AT LARGE

My commission expires: 10-21-2011

Site Name: South Hill

STATE OF Kentucky
COUNTY OF Butler

The foregoing instrument was acknowledged before me this 21st day of Sept., 2009, by Richard E. Beliles & Darlene Beliles to be his/her free act and deed.

Jennie Adkins
NOTARY PUBLIC STATE AT LARGE
My commission expires: 10-21-2011

STATE OF KENTUCKY
COUNTY OF HARDIN

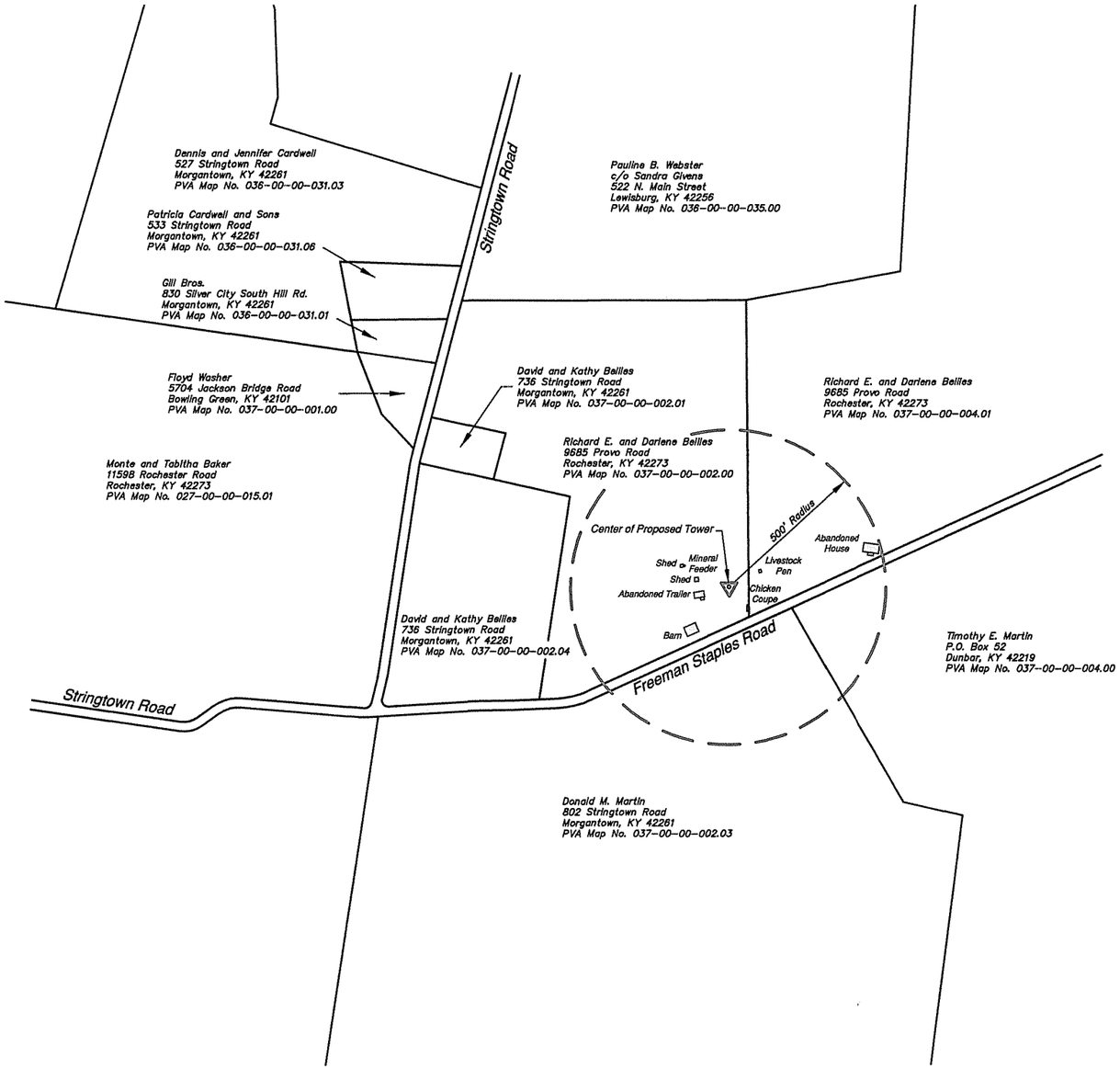
The foregoing instrument was acknowledged before me this 23 day of September, 2009, by **Ron Smith**, to be his free act and deed.

Judith L. Yuen
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: South Hill
500-Foot Radius Map for Structures and Landowners
Butler County, Kentucky



North

GRAPHIC SCALE

300 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

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 and County Clerk of Butler County, Kentucky. This information is not based upon a boundary survey.

Surveyor's 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 and County Clerk of Butler County, Kentucky on October 14, 2009.

Darren L. Helms

Darren L. Helms, P.L.S. 3386

Oct. 29, 2009

Date

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

Reduced Copy

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0950
Email: landmark57@sbcglobal.net

Project No. 09-10-0175

500-Foot Radius Map
231 Freeman Staples Road
Morgantown, Kentucky 42261

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE 10-29-09 | DRAWN BY A. Winkler | CHECKED BY D.L.Helms

SHEET NO. 1 OF 1 SHEETS

FILE NO. south-radius.dwg

Landmark Surveying Co., Inc.

Darren L. Helms, P.L.S., PRESIDENT
Dennis N. Helms, P.L.S., VICE PRESIDENT

15 N.E. 3rd Street
Washington, Indiana 47501
Phone: 812-257-0950
Fax: 812-257-0953
Email: landmark97@sbcglobal.net

Landowner and Adjacent Landowner List

Bluegrass Cellular, Inc.
South Hill Site
Butler County, Kentucky

Monte and Tabitha Baker
11598 Rochester Road
Rochester, KY 42273

David and Kathy Beliles
736 Stringtown Road
Morgantown, KY 42261

Donald M. Martin
802 Stringtown Road
Morgantown, KY 42261

Timothy E. Martin
P.O. Box 52
Dunbar, KY 42219

Richard E. and Darlene Beliles
9685 Provo Road
Rochester, KY 42273

Pauline B. Webster
c/o Sandra Givens
522 N. Main Street
Lewisburg, KY 42256

Dennis and Jennifer Cardwell
527 Stringtown Road
Morgantown, KY 42261

Patricia Cardwell and Sons
533 Stringtown Road
Morgantown, KY 42261

Floyd Washer
5704 Jackson Bridge Road
Bowling Green, KY 42101

Gill Brothers
830 Silver City South Hill Road
Morgantown, KY 42261

Darren L. Helms

Darren L. Helms, Kentucky Professional Land Surveyor No. 3386

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

OCTOBER 29, 2009
Date

November 11, 2009

Gill Brothers
830 Silver City South Hill Road
Morgantown, Kentucky 42261

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

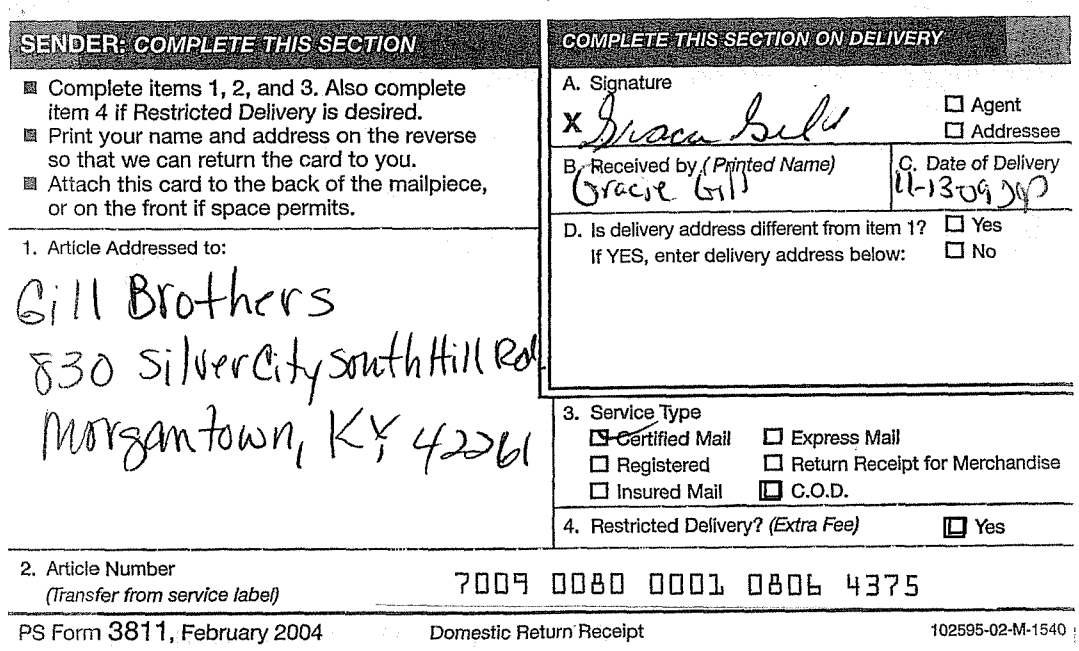
Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:

Gill Brothers
830 Silver City South Hill Rd
Morgantown, KY 42261

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Gracie Gill ☐ Agent ☐ Addressee

B. Received by (Printed Name) Gracie Gill
C. Date of Delivery 11-13-09

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 0080 0001 0806 4375

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

November 11, 2009

Floyd Washer
5704 Jackson Bridge Road
Bowling Green, Kentucky 42101

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership 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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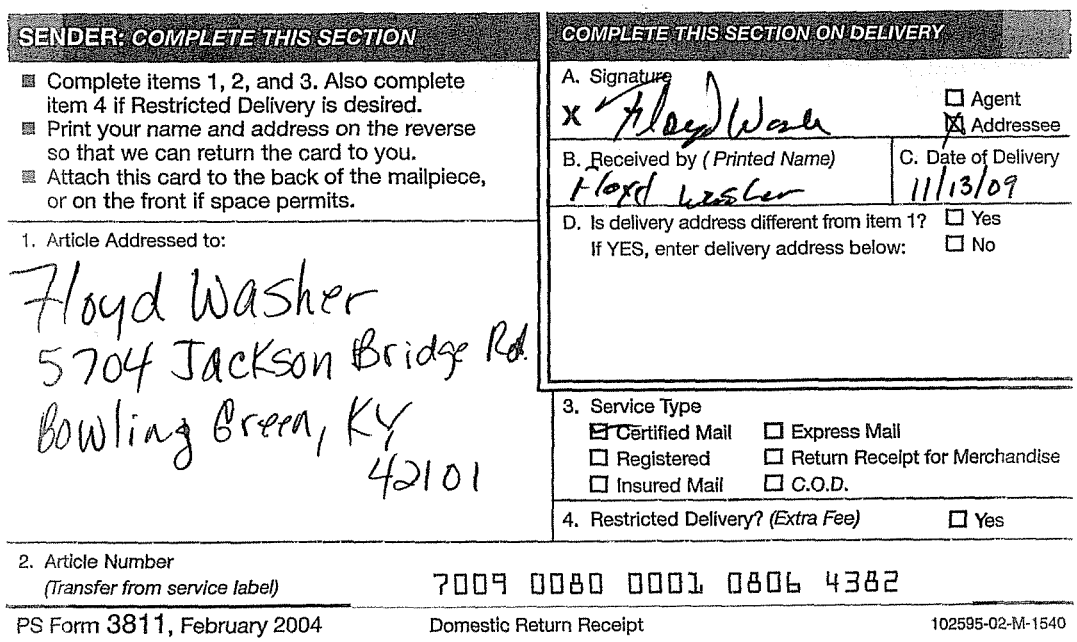
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:

Floyd Washer
5704 Jackson Bridge Rd.
Bowling Green, KY
42101

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Floyd Washer ☐ Agent ☒ Addressee

B. Received by (Printed Name) Floyd Washer
C. Date of Delivery 11/13/09

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 0080 0001 0806 4382

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

November 11, 2009

Patricia Cardwell and Sons
533 Stringtown Road
Morgantown, Kentucky 42261

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

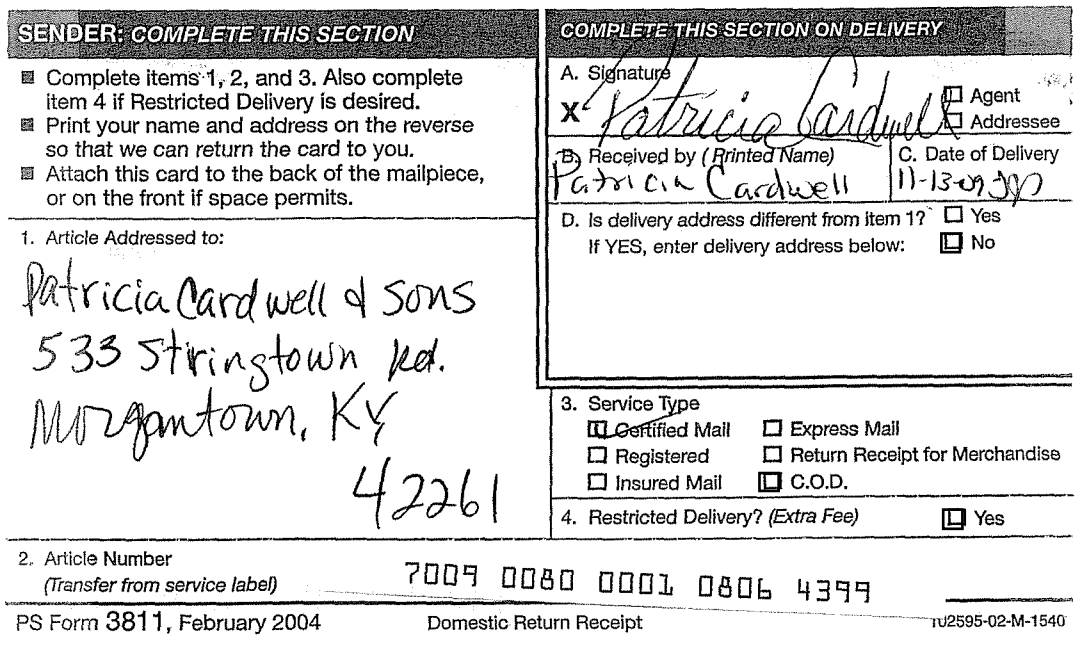
Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:

Patricia Cardwell & Sons
533 Stringtown Rd.
Morgantown, KY
42261

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Patricia Cardwell ☐ Agent ☐ Addressee

B. Received by (Printed Name) Patricia Cardwell
C. Date of Delivery 11-13-09

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 0080 0001 0806 4399

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

November 11, 2009

Dennis and Jennifer Cardwell
527 Stringtown Road
Morgantown, Kentucky 42261

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership 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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Executive Director's Office
Public Service Commission of the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:

Dennis & Jennifer Cardwell
527 Stringtown Rd.
Morgantown, KY 42261

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Jennifer Cardwell ☐ Agent ☐ Addressee

B. Received by (Printed Name) Jennifer Cardwell
C. Date of Delivery 11-13-09

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 0080 0001 0806 4405

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

November 11, 2009

Pauline B. Webster
c/o Sandra Givens
522 North Main Street
Lewisburg, Kentucky 42256

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. A map showing the location is attached.

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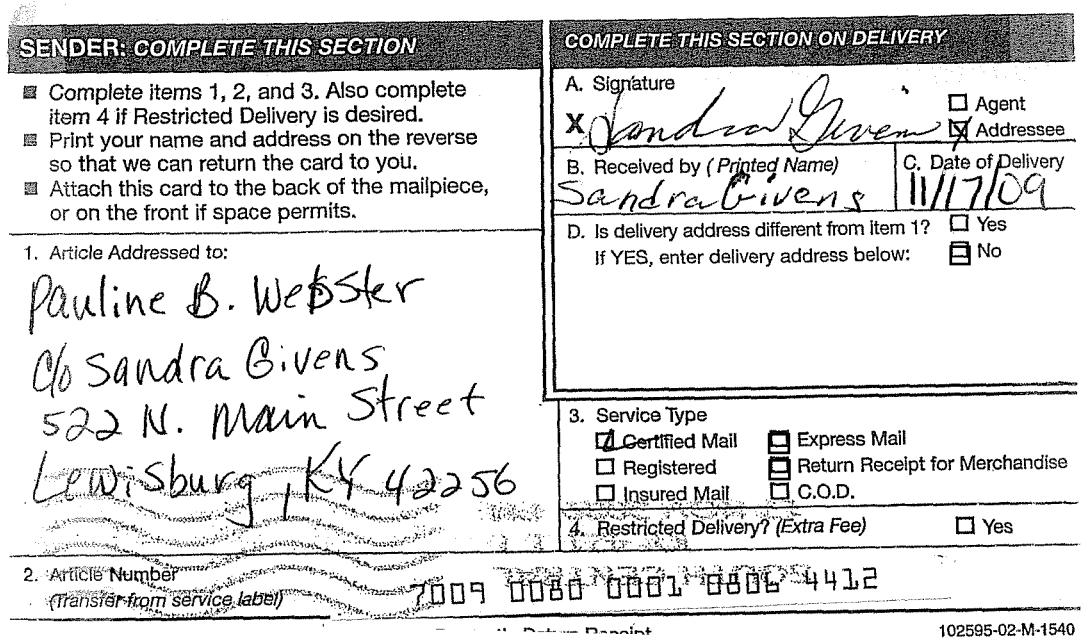
Executive Director's Office
Public Service Commission of the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:
Pauline B. Webster
C/o Sandra Givens
522 N. Main Street
Lewisburg, KY 42256

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Sandra Givens ☐ Agent ☒ Addressee

B. Received by (Printed Name) Sandra Givens
C. Date of Delivery 11/17/09

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 0080 0001 0806 4412

102595-02-M-1540

November 11, 2009

Richard E. and Darlene Beliles
9685 Provo Road
Rochester, Kentucky 42273

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

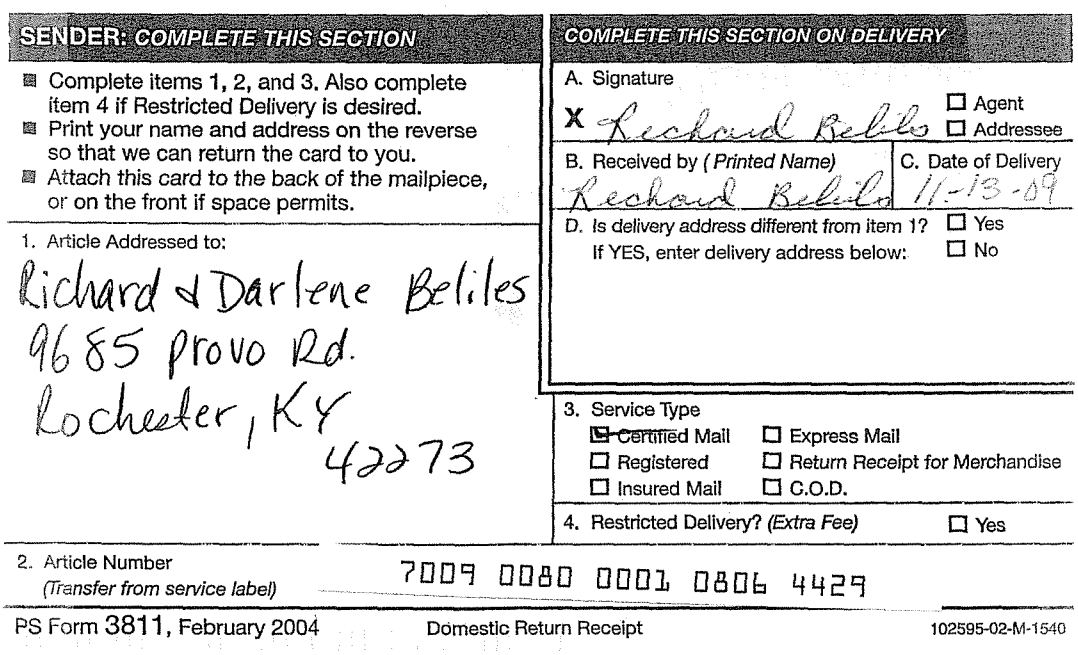
Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:
Richard & Darlene Beliles
9685 Provo Rd.
Rochester, KY
42273

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Richard Beliles ☐ Agent ☐ Addressee

B. Received by (Printed Name) Richard Beliles
C. Date of Delivery 11-13-09

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 0080 0001 0806 4429

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

November 11, 2009

Timothy E. Martin
P.O. Box 52
Dunbar, Kentucky 42219

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. A map showing the location is attached.

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

Please refer to case number 2009-00435 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 Martin
P.O. Box 52
Dunbar, KY
42219

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Timothy Martin ☑ Agent ☐ Addressee

B. Received by (Printed Name) Timothy Martin
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 0080 0001 0806 4436

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

November 11, 2009

Donald M. Martin
802 Stringtown Road
Morgantown, Kentucky 42261

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

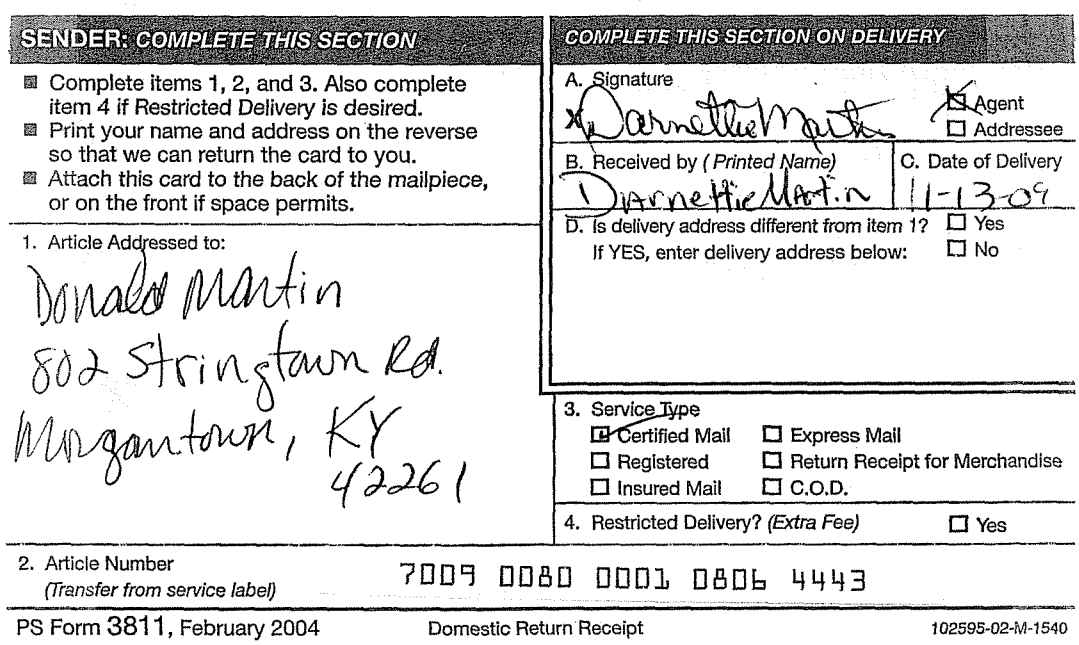
Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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:
Donald Martin
802 Stringtown Rd.
Morgantown, KY
42261

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Darnettie Martin — ☒ Agent ☐ Addressee

B. Received by (Printed Name) Darnettie Martin — C. Date of Delivery 11-13-09

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 0080 0001 0806 4443

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

November 11, 2009

David and Kathy Beliles
736 Stringtown Road
Morgantown, Kentucky 42261

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

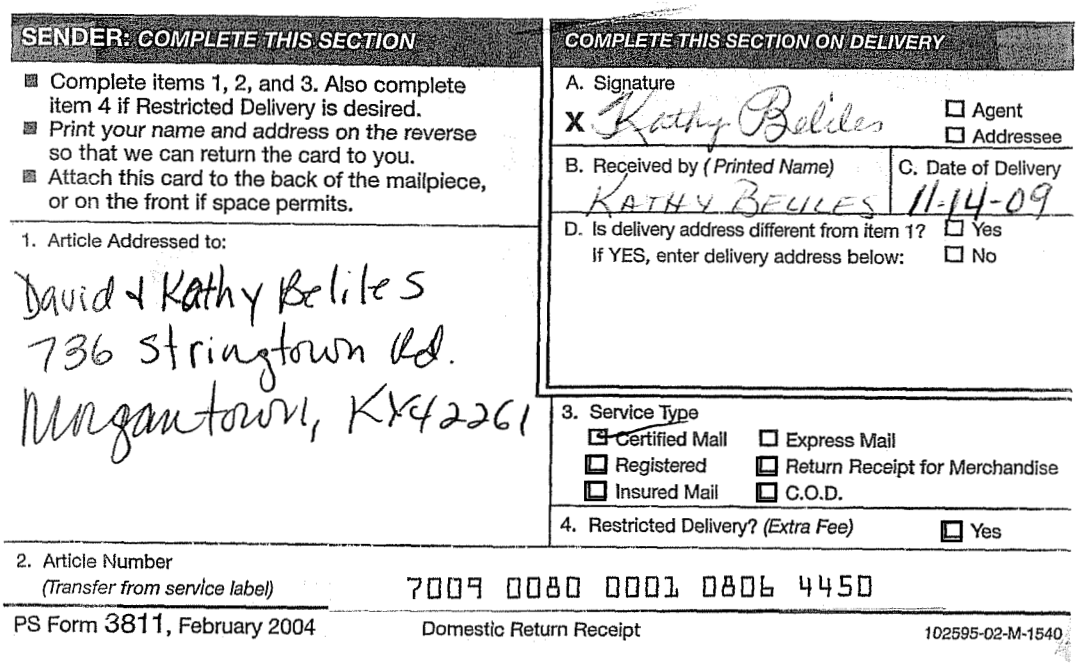
Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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

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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:

David & Kathy Beliles
736 Stringtown Rd.
Morgantown, KY 42261

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Kathy Beliles ☐ Agent ☐ Addressee

B. Received by (Printed Name) KATHY BELILES
C. Date of Delivery 11-14-09

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 0080 0001 0806 4450

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

November 11, 2009

Monte and Tabitha Baker
11598 Rochester Road
Rochester, Kentucky 42273

Public Notice

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3") is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

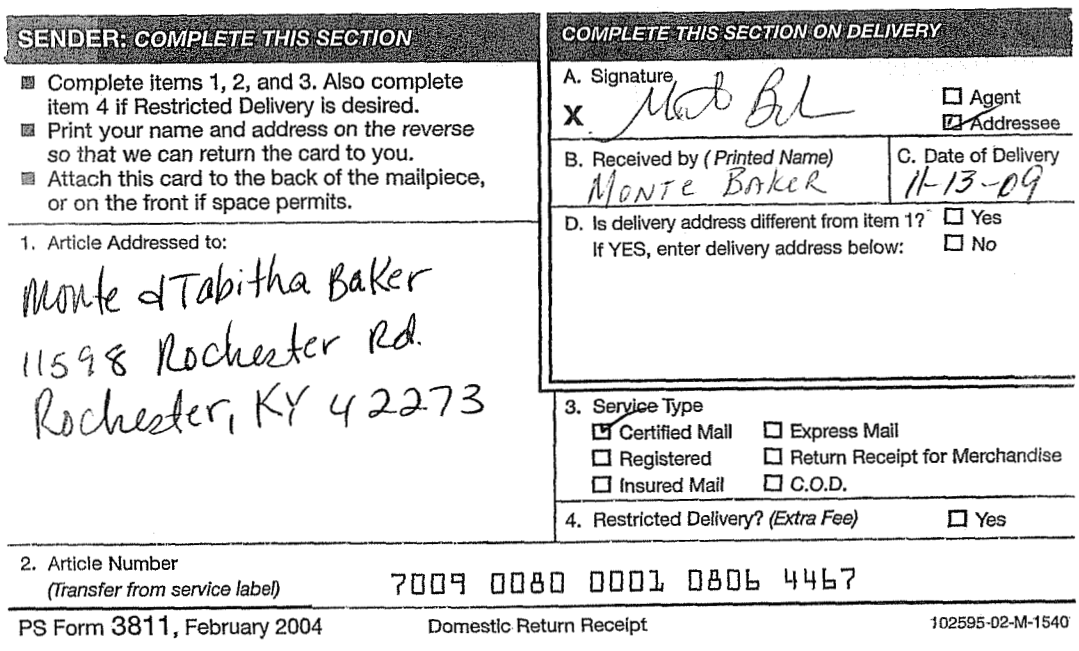
Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct a new cell facility to provide cellular telecommunications service in Butler County. This facility will include a 280-foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 the Commonwealth of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2009-00435 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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- 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:
Monte & Tabitha Baker
11598 Rochester Rd.
Rochester, KY 42273

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Monte Baker ☐ Agent ☑ Addressee

B. Received by (Printed Name) MONTE BAKER
C. Date of Delivery 11-13-09

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 0080 0001 0806 4467

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

November 11, 2009

Via Certified Mail
David Fields
Butler County Judge Executive
Courthouse
110 North Main Street
Morgantown, KY 42261

RE: Application of Kentucky RSA #3 Cellular General Partnership d/b/a Bluegrass Cellular for a Certificate of Public Convenience and Necessity to construct a cellular tower to be located at 231 Freeman Staples Road, Morgantown, Butler County, Kentucky, 42261, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2009-00435

Dear Judge Fields:

Kentucky RSA #3 Cellular General Partnership ("Kentucky RSA #3) is a Kentucky General Partnership that markets its services as Bluegrass Cellular. Kentucky RSA #3 is applying to the Public Service Commission of the Commonwealth of Kentucky (the Commission") for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular telecommunications service in rural service area (RSA) #3 in Butler County. The facility will include a 280 ft. tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. 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 of the Commonwealth of Kentucky, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2009-00435 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP

Kerry W. Ingle
Paralegal

Enclosure
152803_1
21963-32

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:

David Fields
Breckinridge County Judge
Executive
Courthouse
110 N. Main Street
Morgantown, KY 42261

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X [signature] ☐ Agent ☐ Addressee

B. Received by (~~Printed~~ Name) [illegible] C. Date of Delivery 11-13-09

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

P.O. Box 626
Morgantown, KY 42261

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 0080 0001 0806 4221

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


PUBLIC NOTICE
Kentucky RSA #3 Cellular General Partnership proposes to construct a cellular communications
TOWER
near this site. If you have any questions please contact:
Kentucky RSA #3 Cellular General Partnership
P.O. Box 5012
2602 Ring Road
Elizabethtown, KY 42701
or
Executive Director
The Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
Case #2009-00435
in your correspondence.


PUBLIC NOTICE
TOWER
Please refer to P.S.C.
Case #2009-00435


PUBLIC NOTICE
TOWER


PUBLIC NOTICE
Kentucky RSA #3 Cellular
General Partnership proposes
to construct a cellular
communications
TOWER
on this site. If you have any
questions please contact:
Please refer to P.S.C.
Case #2009-00435
in your correspondence.


TOWER

BIDS

Fiscal Court will be
epair and replacement
BUTLER COUNTY
Bids must be submitted
nty Judge Executive's
e first floor of the But-
ouse by 3:00 p.m. on
11, 2009. A copy of the
can be obtained at the
LATE BIDS WILL

NOTICE

Kentucky RSA #3 Cellular General Partnership is apply to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular telecommunications service in rural service are #3 of the Commonwealth of Kentucky (Butler Cell Site). The facility will include a 280 foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission of the Commonwealth of Kentucky, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2009-00435 in your correspondence.

NOTICE

Kentucky RSA #3 Cellular General Partnership is apply to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular telecommunications service in rural service are #3 of the Commonwealth of Kentucky (Butler Cell Site). The facility will include a 280 foot tower and an equipment shelter to be located at 231 Freeman Staples Road, Morgantown, Kentucky, 42261. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission of the Commonwealth of Kentucky, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2009-00435 in your correspondence.

ORDINANCE 2009-05 — 2nd AMENDED

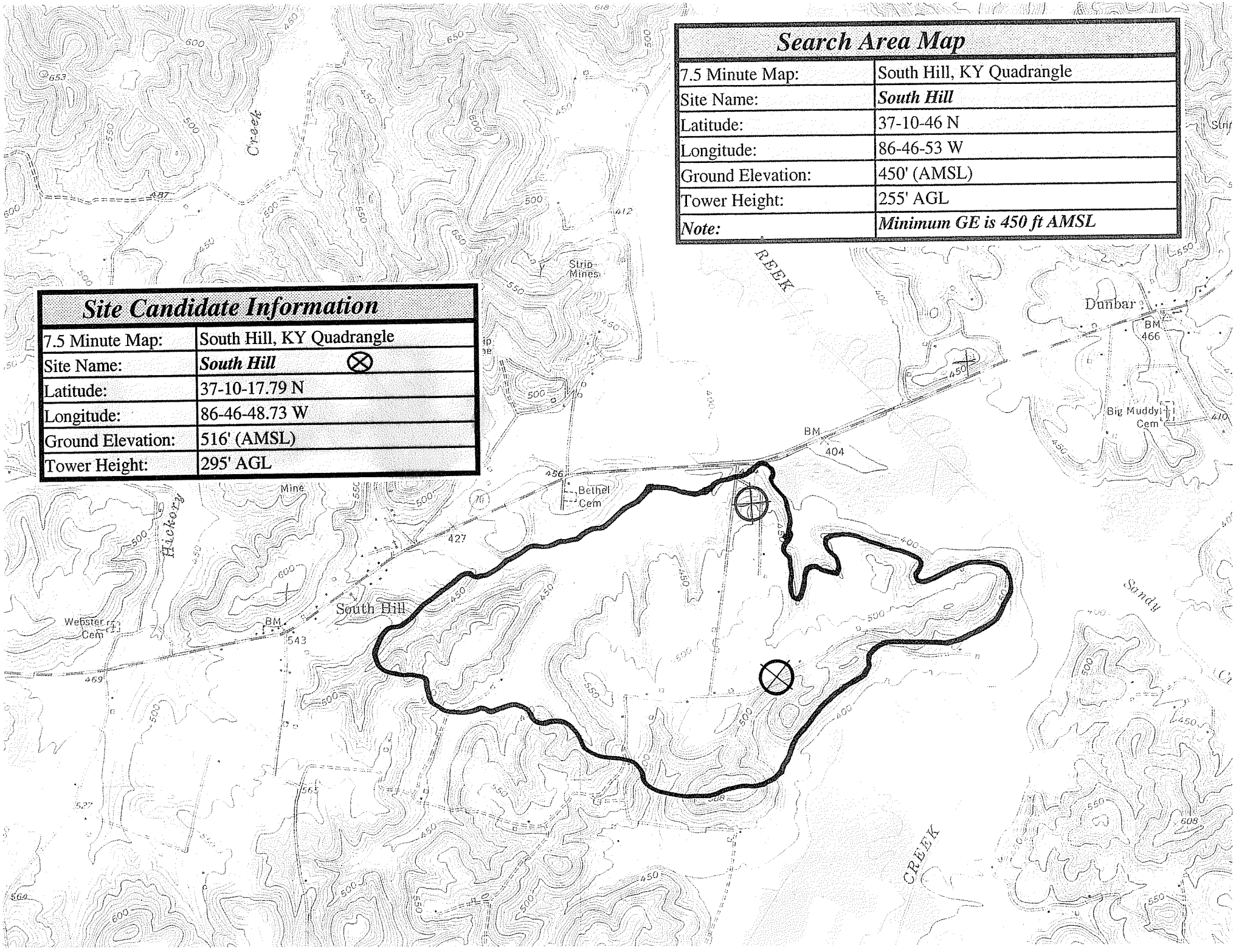
AN ORDINANCE adopting the amended annual budget for the fiscal year beginning July 1, 2009 and ending June 30, 2010 by estimating revenues and appropriations.

WHEREAS, a budget proposal and message have been prepared and delivered to the legislative body for review and modification,

THEREFORE, be it ordained by the City of Morgantown, Kentucky:

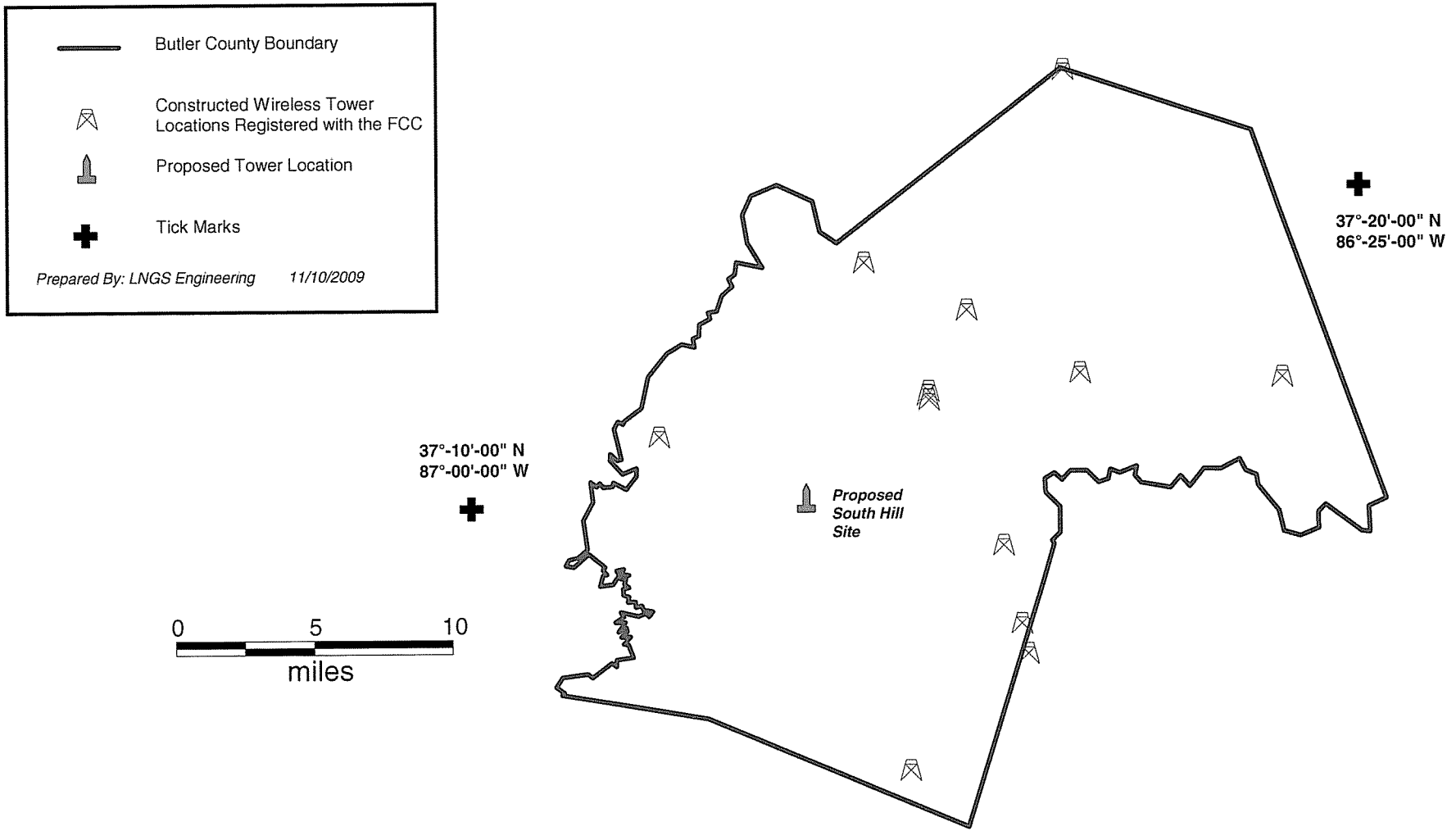
SECTION 1: That the annual budget for fiscal year beginning July 1, 2009 and ending June 30, 2010 is hereby adopted as follows:

RESOURCES AVAILABLE	GENERAL FUND	FIRE FUND	PARK FUND	STREETS FUND	LGEA FUND	CEMETERY FUND	UTILITIES FUND
FUND BALANCE FORWARD	$500,000	$6,500	$10,000	$86,200	$3,000	$10,000	$630,323.06
ESTIMATED REVENUES:							
PROPERTY TAXES	$113,000.00						
LICENSES/PERMITS	$26,000						
INTERGOVERNMENTAL REVENUES	$60,500	$35,000		$40,000	$4,000		
OTHER INCOME	$11,800	$11,500				$125	



Search Area Map	
7.5 Minute Map:	South Hill, KY Quadrangle
Site Name:	***South Hill***
Latitude:	37-10-46 N
Longitude:	86-46-53 W
Ground Elevation:	450' (AMSL)
Tower Height:	255' AGL
Note:	***Minimum GE is 450 ft AMSL***

Site Candidate Information	
7.5 Minute Map:	South Hill, KY Quadrangle
Site Name:	***South Hill*** ⊗
Latitude:	37-10-17.79 N
Longitude:	86-46-48.73 W
Ground Elevation:	516' (AMSL)
Tower Height:	295' AGL


Butler County Boundary
Constructed Wireless Tower Locations Registered with the FCC
Proposed Tower Location
Tick Marks
Prepared By: LNGS Engineering 11/10/2009
37°-10'-00" N
87°-00'-00" W
37°-20'-00" N
86°-25'-00" W
Proposed South Hill Site
0
5
10
miles

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

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1044046	37-05-23	86-38-05	Hadley, KY	KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = WKGB TV
1043044	37-08-47	86-39-02	Morgantown, KY	KENTUCKY RSA 3 CELLULAR GENERAL PARTNERSHIP DBA = BLUEGRASS CELLULAR
1043425	37-13-20.6	86-41-57.3	Morgantown, KY	NEW CINGULAR WIRELESS PCS, LLC
1044829	37-14-9.9	86-35-59.6	Morgantown, KY	KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS
1050177	37-01-45	86-42-44	Bowling Green, KY	Telava Wireless, Inc.
1050235	37-13-30	86-42-01	Morgantown, KY	TELE MEDIA COMPANY OF SOUTHWEST KENTUCKY DBA = TELE MEDIA COMPANY
1210409	37-06-19.2	86-38-19.6	Morgantown, KY	NEW CINGULAR WIRELESS PCS, LLC
1210481	37-13-37.1	86-41-57.9	Morgantown, KY	Ford Communications
1217204	37-17-38.2	86-44-29.7	Morgantown, KY	Crown Communication Inc.
1217219	37-23-39.9	86-36-37.8	Morgantown, KY	Crown Communication Inc.
1231934	37-14-0.7	86-28-2.1	Roundhill, KY	NEW CINGULAR WIRELESS PCS, LLC
1263383	37-12-13	86-52-35.7	Rochester, KY	KENTUCKY RSA 3 CELLULAR GENERAL PARTNERSHIP DBA = BLUEGRASS CELLULAR
1268018	37-16-8.2	86-40-27.4	Morgantown, KY	KENTUCKY RSA 3 CELLULAR GENERAL PARTNERSHIP DBA = BLUEGRASS CELLULAR