COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

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

CASE NO. 2005-00449

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

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

1. As required by 807 KAR 5:001 Sections 8(l) and (3), and 807 KAR 5:063, Bluegrass Wireless states that it is a Kentucky limited liability company whose full name and post office address are: Bluegrass Wireless LLC, 2902 Ring Road, Elizabethtown, Kentucky, 42701.

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 Exhibit "A". Written authorizations from these agencies will be supplied to the Commission upon their approval.

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

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

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

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

7. Pursuant to 807 KAR §1(1)(g), Sabre Communications Corporation is responsible for the design specifications of the proposed tower (identified in Exhibit "B").

8. Pursuant to 807 KRS 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 Exhibit "B".

9. Pursuant to 807 KRS 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 Exhibit "B".

10. Pursuant to 807 KRS 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 Exhibit "B".

11. Pursuant to 807 KRS 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 Exhibit "E".

12. Pursuant to 807 KRS 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 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 right to request intervention.

14. Pursuant to 807 KRS 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 Exhibit "F".

15. Pursuant to 807 KRS 5:063 § 1 (1)(n), applicant's legal counsel hereby affirms that the Pulaski 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 KRS 5:063 §1(1)(o), a copy of the notice sent to the Pulaski County Judge Executive is Exhibit "G".

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

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

> (a) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Bluegrass Wireless, LLC proposes to construct a telecommunications tower on this site***", including the addresses 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 "***Bluegrass Wireless, LLC 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 KRS 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 Exhibit "I".

20. Pursuant to 807 KRS 5:063 § 1(1)(r), the cell site which has been selected is in a relatively undeveloped area in Bronston, Kentucky.

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

22. Pursuant to 807 KRS 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 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 Exhibit "K".

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

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

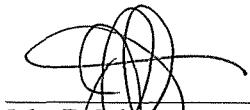
John E. Selent
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
selent@dinslaw.com

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

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

2. Granting all other relief as appropriate.

Respectfully submitted,



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

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33597-11

LUKAS, NACE GUTIERREZ & SACHS

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1650 TYSONS BOULEVARD, SUITE 1500
MCLEAN, VIRGINIA 22102
703 584 8678 • 703 584 8696 FAX

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DAVID L. NACE*
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ELIZABETH R. SACHS*
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PAMELA L. GIST*
DAVID A. LAFURIA
B. LYNN F. RATNAVALE*
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LEILA REZANAVAZ
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OF COUNSEL
JOHN J. MCAVOY*
J.K. HAGE III*
LEONARD S. KOLSKY*
HON. GERALD S. MCGOWAN*

*NOT ADMITTED IN VA

November 11, 2005

Via Federal Express

Tel: 703-584-8668

EXPRESS PROCESSING CENTER
Federal Aviation Administration
Southwest Regional Office
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-4298

Dear FAA Evaluator:

Enclosed please find a completed FAA Form 7460-1, Notice of Proposed Construction/Alteration, for a new tower structure (Bronston) near Burnside, Kentucky. The height of the structure, including top-mounted PCS antennas, will be 255 feet Above Ground Level ("AGL").

The enclosed FAA Form 7460-1 and the attached Exhibit include all the pertinent information for the new structure at this site. Also enclosed is a non-reduced copy of a portion of the 7-1/2' US Geological Survey map illustrating the location of the proposed cell site. Additionally, the copy of the 1A Certification is enclosed. Please do not hesitate to contact the undersigned if there are questions regarding this matter.

Sincerely,

Leila Rezanavaz

Leila Rezanavaz
Consulting Engineer

Enclosures

cc: Scott McCloud

Please Type or Print on This Form

Form Approved OMB No. 2120-0001

U.S. Department of Transportation
Federal Aviation Administration

Failure To Provide All Requested Information May Delay Processing of Your Notice

Notice of Proposed Construction or Alteration

FOR FAA USE ONLY
Aeronautical Study Number
- - -

1. Sponsor *(person, company, etc. proposing this action)*:
Attn. of: Scott McCloud
Name: Bluegrass Cellular
Address: 2902 Ring Road
City: Elizabethtown State: KY Zip: 42702
Telephone: (270) 769-0339 Fax: (270) 737-0580

2. Sponsor's Representative *(if other than #1)*:
Attn. of: Leila Rezanavaz
Name: Lukas, Nace, Gutierrez & Sachs, Chartered
Address: 1650 Tysons BLVD
Suite 1500
City: McLean State: VA Zip: 22102
Telephone: (703) 854-8668 Fax: (703) 584-8692

3. Notice of: ☒ New Construction ☐ Alteration ☐ Existing

4. Duration: ☒ Permanent ☐ Temporary (months, days)

5. Work Schedule: Beginning 11/25/2005 End 11/30/2005

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 and Medium Intensity White
☐ White - Medium Intensity ☐ Dual - Red and High Intensity White
☐ White - High Intensity ☐ Other

8. FCC Antenna Structure Registration Number *(if applicable)*:
N/A

9. Latitude: 36° 58' 26. 37"

10. Longitude: 84° 39' 10. 07"

11. Datum: ☒ NAD 83 ☐ NAD 27 ☐ Other

12. Nearest: City: Burnside State: KY

13. Nearest Public-use (not private-use) or Military Airport or Heliport:
Somerset-Pulaski County Airport

14. Distance from #13. to Structure: 5.8 miles

15. Direction from #13. to Structure: South southwest

16. Site Elevation *(AMSL)*: 1057 ft.

17. Total Structure Height *(AGL)*: 255 ft.

18. Overall height (#16. + #17.) *(AMSL)*: 1312 ft.

19. Previous FAA Aeronautical Study Number (if applicable):
N/A - OE

20. Description of Location: (Attach a USGS 7.5 minute Quadrangle Map with the precise site marked and any certified survey.)
Site is located 3.0 miles west of Burnside, KY

21. Complete Description of Proposal:

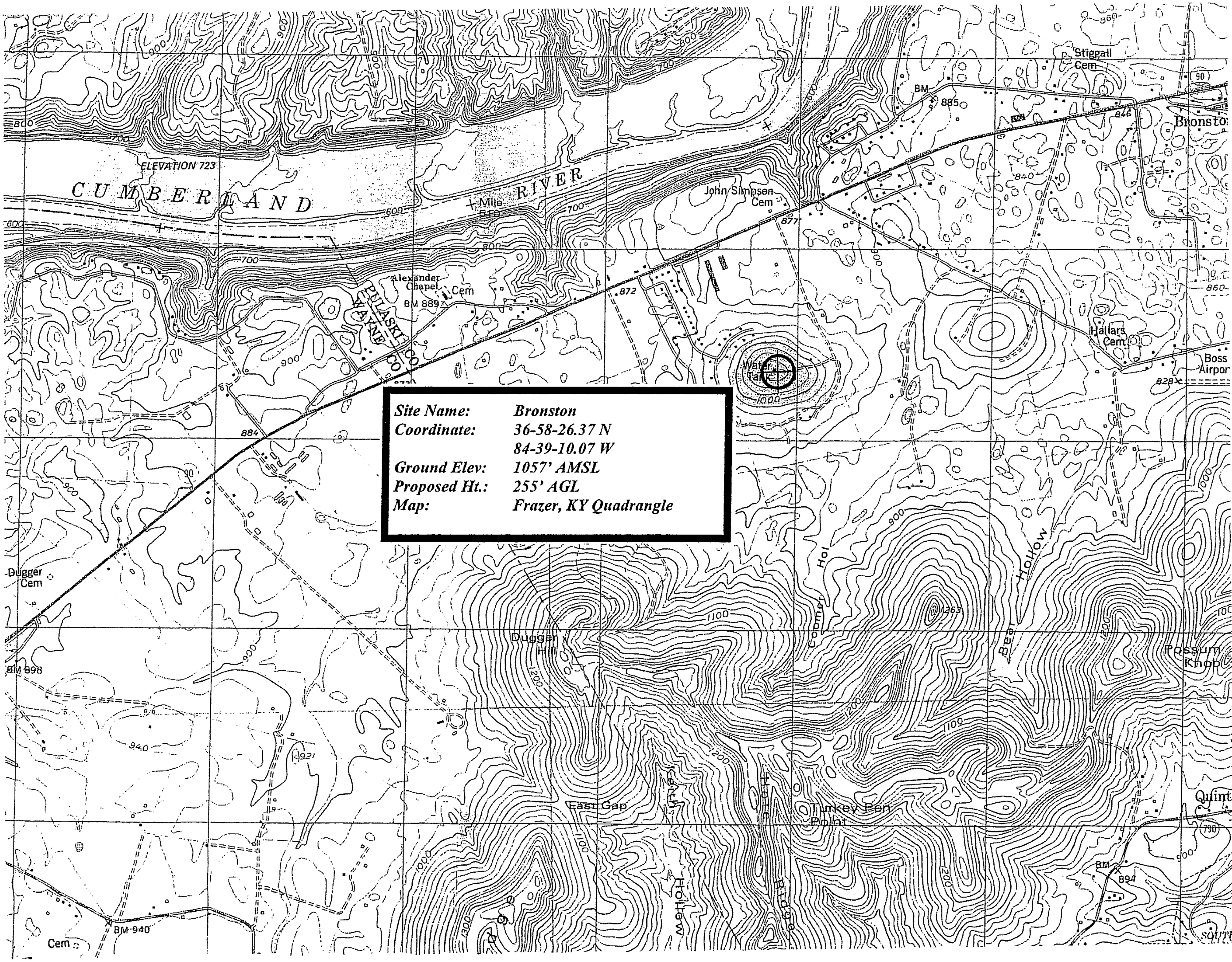
The structure including top-mounted PCS antennas has an overall height of 255' AGL

Frequency/Power (kW)	
1975-1983 MHz	0.2

Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 49 U.S.C., Section 44718. Persons who knowingly and willingly violate the notice requirements of part 77 are subject to a civil penalty of $1,000 per day until the notice is received, pursuant to 49 U.S.C., section 46301 (a).

I hereby certify that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to mark and/or light the structure in accordance with established marking and lighting standards as necessary.

Date	Typed or Printed name and Title of Person Filing Notice	Signature
11/11/2005	Leila Rezanavaz / Consulting Engineer	Leila Rezanavaz


Site Name: Bronston
Coordinate: 36-58-26.37 N
84-39-10.07 W
Ground Elev: 1057' AMSL
Proposed Ht.: 255' AGL
Map: Frazer, KY Quadrangle
CUMBERLAND RIVER
ELEVATION 723
Mile 510
Alexander Chapel Cem
BM 889
PULASKI CO
WAYNE CO
John Simpson Cem
Water Tank
Stiggall Cem
Bronston
Hallars Cem
Boss Airport
Dugger Cem
BM 898
Dugger Hill
East Gap
Turkey Pen Point
Bear Hollow
Coomer Hol
Possum Knob
BM 940
Cem

BLUEGRASS CELLULAR
2902 Ring Road
Elizabethtown, KY 42702

1A Letter

Date: October 25, 2005
FSTAN Project No: 05-3597

Site Name:		**Bronston**
For Aeronautical Study No.		
Location:	City	Bronston, KY
	County	Pulaski
U.S.G.S. Quadrangle:		Frazer, KY
(NAD 27)	LATITUDE	36° 58' 26.10"
	LONGITUDE	84° 39' 10.28"
(NAD 83)	LATITUDE	36° 58' 26.37"
	LONGITUDE	84° 39' 10.07"

SITE ELEVATION (NAVD 88)	1057' ± AMSL
PROPOSED TOWER HEIGHT	240' ± FAA AGL
TOWER HEIGHT WITH ANTENNA	265' ± FAA AGL
OVERALL HEIGHT ELEVATION	1322' ± AMSL

I Certify, to the best of my knowledge and belief, that the horizontal and vertical datum as established from the referenced U.S.G.S. Quadrangle, Frazer, is accurate to 1A Reporting requirements of ± 20 feet horizontally and ± 3 vertically.

The horizontal datum (coordinates) are in terms of the North American Datum of 1927 (NAD 27) and 1983 (NAD 83) and expressed as degrees, minutes and seconds.

The vertical datum (heights) are in terms of the National Geodetic Vertical Datum of 1988 and are determined to the nearest foot.

Kentucky State Plane Coordinates (South Zone) were established with Trimble Global Positioning Systems (GPS) receivers. This site has ties to the National Geodetic Reference System established by the National Geodetic Survey, formerly the U.S. Coast & Geodetic Survey by measurements to PID Station "GZ2627", designated as "SOMERPORT".

CONSULTANT

STATE OF KENTUCKY
FRANK L. SELLINGER #3282
LICENSED PROFESSIONAL LAND SURVEYOR

Frank L. Sellinger II, P.L.S. No. 3282
FSTAN Land Surveyors and Consulting Engineers
2313/2315 Crittenden Drive, Louisville, Ky. 40217
Phone: 502-635-5866 Fax: 502-636-5263

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OF COUNSEL
JOHN J. MCAVOY*
J.K. HAGE III*
LEONARD S. KOLSKY*
HON. GERALD S. MCGOWAN*

*NOT ADMITTED IN VA

November 11, 2005

Telephone
(703)584-8668
FACSIMILE
(703) 584-8692

Via Federal Express

Mr. John Houlihan
Kentucky Airport Zoning Commission
200 Mero Street
Frankfort, Kentucky 40622

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 (Bronston) near Burnside, Kentucky. The Structure will have an overall height of 255 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 copy of the 1A Certification 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: Scott McCloud

– INSTRUCTIONS ON REVERSE SIDE OF FORM –

Kentucky Transportation Cabinet, Kentucky Airport Zoning Commission, 125 Holmes Street, Frankfort KY 40622

Kentucky Aeronautical Study Number

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

1. APPLICANT – Name, Address, Telephone, Fax, etc.

Scott McCloud
Bluegrass Wireless
2902 Ring Road
Elizabethtown, KY 42702
Tel: 270-769-0339
Fax: 270-737-0580

2. Representative of Applicant – Name, Address, Telephone, Fax

Leila Rezanavaz
Lukas, Nace, Gutierrez & Sachs, Chartered
1650 Tysons Blvd., Suite 1500
McLean, VA 22102
T: 703-584-8668

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

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

5. Work Schedule: Start 11/25/05 End 11/30/05

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 N/A

9. Latitude: 36 ° 58 ' 26.37 "

10. Longitude: 84 ° 39 ' 10.07 "

11. Datum: ☒ NAD 83 ☐ NAD 27 ☐ Other _____

12. Nearest Kentucky City Burnside County: Pulaski

13. Nearest Kentucky public use or Military airport:
Somerset-Pulaski County Airport

14. Distance from #13 to Structure: 5.8 miles

15. Direction from #13 to Structure: south southwest

16. Site Elevation (*AMSL*): 1057 Feet

17. Total Structure Height (*AGL*): 255 Feet

18. Overall Height (#16 + #17) (*AMSL*): 1312 Feet

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

20. Description of Location: (Attach a USGS 7.5 minute Quadrangle Map or an Airport Layout Drawing with the precise site marked and any certified survey)

The proposed site is located 3.0 miles west of Burnside, KY.

21. Description of Proposal:

Structure: The tower including top-mounted PCS antennas will have an overall height of 255' AGL.

Frequencies: 1975-1982.5 MHz (Base Transmit)

Max ERP: 200 Watts

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration? ☐ No ☒ Yes, When 11/11/2005

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 — Leila Rezanavaz — 11/11/2005
Printed Name — 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 _____

BLUEGRASS CELLULAR
2902 Ring Road
Elizabethtown, KY 42702

1A Letter

Date: October 25, 2005
FSTAN Project No: 05-3597

Site Name:		**Bronston**
For Aeronautical Study No.		
Location:	City	Bronston, KY
	County	Pulaski
U.S.G.S. Quadrangle:		Frazer, KY
(NAD 27)	LATITUDE	36° 58' 26.10"
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PROPOSED TOWER HEIGHT		240' ± FAA AGL
TOWER HEIGHT WITH ANTENNA		265' ± FAA AGL
OVERALL HEIGHT ELEVATION		1322' ± AMSL

I Certify, to the best of my knowledge and belief, that the horizontal and vertical datum as established from the referenced U.S.G.S. Quadrangle, Frazer, is accurate to 1A Reporting requirements of ± 20 feet horizontally and ± 3 vertically.

The horizontal datum (coordinates) are in terms of the North American Datum of 1927 (NAD 27) and 1983 (NAD 83) and expressed as degrees, minutes and seconds.

The vertical datum (heights) are in terms of the National Geodetic Vertical Datum of 1988 and are determined to the nearest foot.

Kentucky State Plane Coordinates (South Zone) were established with Trimble Global Positioning Systems (GPS) receivers. This site has ties to the National Geodetic Reference System established by the National Geodetic Survey, formerly the U.S. Coast & Geodetic Survey by measurements to PID Station "GZ2627", designated as "SOMERPORT".

CONSULTANT

STATE OF KENTUCKY
FRANK L. SELLINGER
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Frank L. Sellinger II, P.L.S. No. 3282
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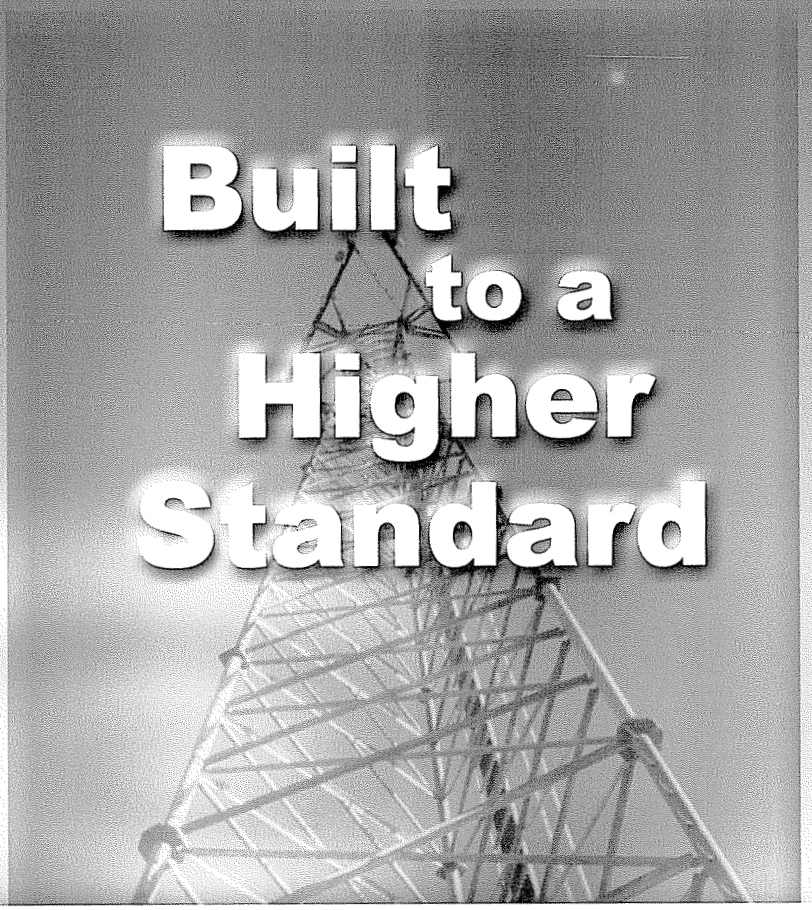
Phone: 502-635-5866 Fax: 502-636-5263



BLUEGRASS CELLULAR

Permit Pkg with Foundation

Bronston, KY

Sabre Job Number 06-12048

STAMPED PERMIT DRAWINGS

YOUR SABRE
REPRESENTATIVE IS
Jim Gibson
1-800-369-6690 EXT. 173

Sabre
Communications
Corporation ™

2101 Murray Street • P.O. Box 658 • Sioux City, IA 51102
Phone 712-258-6690 • FAX 712-258-8250

Sabre Communications Corporation ™

Structural Design Report

240' S3R Self-Supporting Tower
located at: Bronston, KY

prepared for: BLUEGRASS WIRELESS LLC
by: Sabre Communications Corporation ™

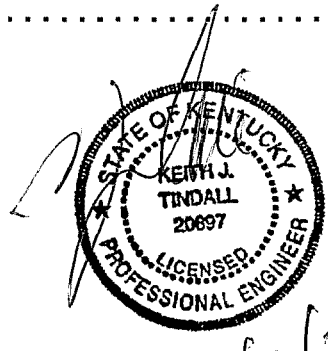
Job Number: 06-12048

December 7, 2005

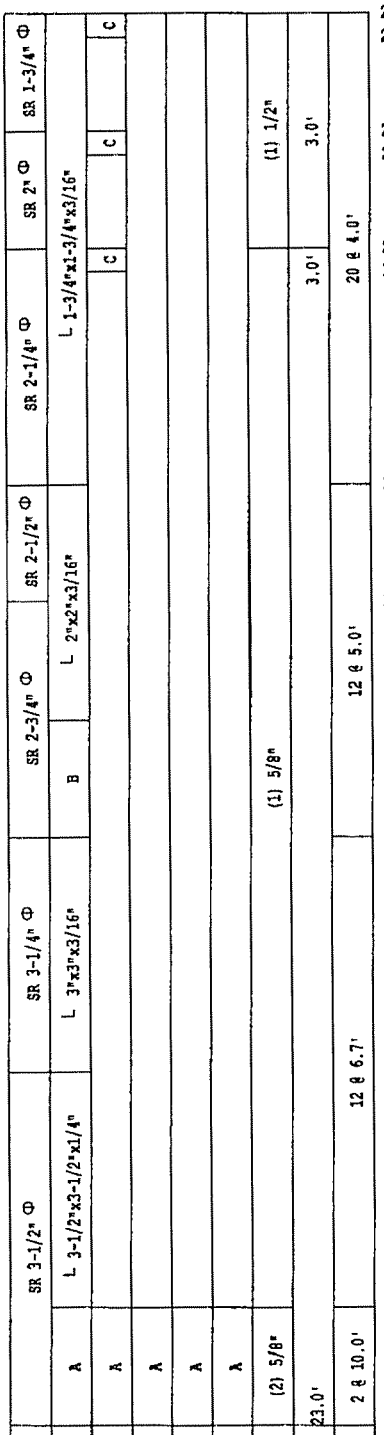
Prepared by RBB

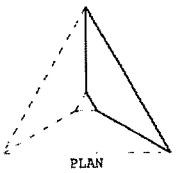
Checked by JAV

Approved by KJT



12/7/05





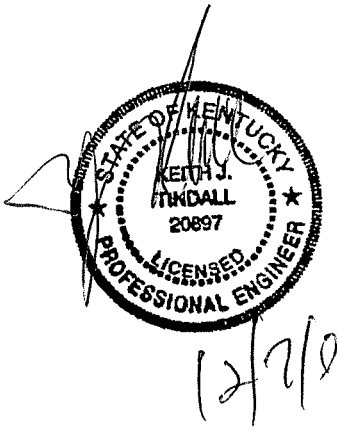
NOTES:
1. The tower model is S3R.
2. Transmission lines are to be attached to standard 6-over-6 waveguide ladders.
3. Azimuths are relative (not based on true north).
4. Foundation loads shown are maximums.
5. (4) 1 1/2" dia. A572 anchor bolts per leg. Minimum 49" embedment from top of concrete to top of nut.
6. All unequal angles are oriented with the short leg vertical.

ANTENNA LIST

NO	ELEV	ANTENNA	TX-LINE
1	240'	(6) 59210 + 3T-Boom	(6) 1 5/8
2	220'	(6) 59210 + 3T-Boom	(6) 1 5/8
3	200'	(6) 59210 + 3T-Boom	(6) 1 5/8
4	180'	(6) 59210 + 3T-Boom	(6) 1 5/8
5	160'	(6) 59210 + 3T-Boom	(6) 1 5/8
6	140'	(1) 6' H.P. Dish	(1) 1 5/8

MATERIAL LIST

NO	TYPE
A	L 3"x3"x3/16"
B	L 2-1/2"x2-1/2"x3/16"
C	L 1-3/4"x1-3/4"x3/16"



12/7/05

TOTAL FOUNDATION LOADS

H=30.70k
V=75.47k
M=3859.70k-ft
T=2.12k-ft

INDIVIDUAL FOOTING LOADS

H=18.96k
V=210.49k
U=-163.98k

Sabre Communications Corporation
2101 Murray Street (P.O. Box 658), Sioux City, Iowa 51102-0658
Phone: (712) 258-6690 Fax: (712) 258-8250

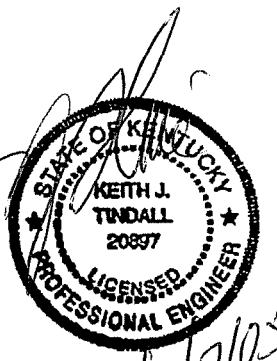
Client: BLUEGRASS WIRELESS LLC Job No: 06-12048 Date: 7 dec 2005

Location: Bronston, KY Total Height: 240.00' Tower Height: 240.00'

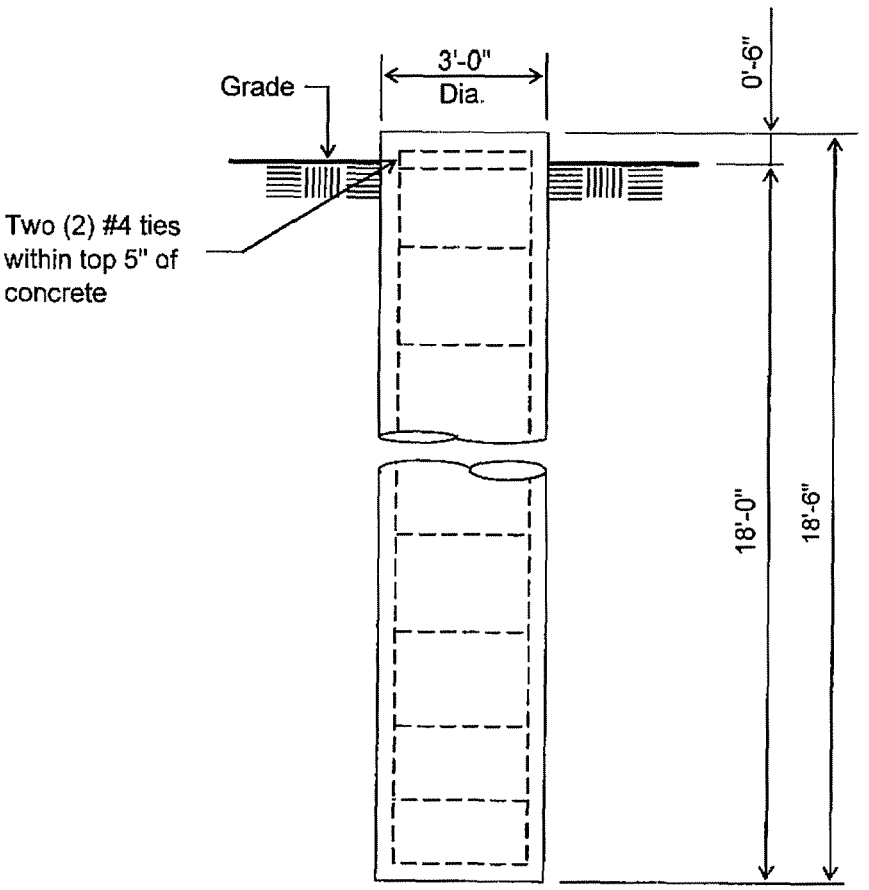
Standard: ANSI/TIA/EIA 222-F-1996 Design Wind & Ice: 70 mph + 0.5" ice

Customer: BLUEGRASS WIRELESS LLC
Site: Bronston, KY

240 ft. Model S3R Self Supporting Tower At
70 mph Wind + 0.5 in. Ice per ANSI/TIA/EIA-222-F-1996.
Antenna Loading per Page 1



12/7/05



ELEVATION VIEW
(4.84 Cu. Yds. each)
(3 REQUIRED)

Notes:

1). Concrete shall have a minimum 28-day compressive strength of 3000 PSI, in accordance with ACI 318-02.

2). Rebars to conform to ASTM specification A615 Grade 60.

3). All rebar to have a minimum of 3" concrete cover.

4). All exposed concrete corners to be chamfered 3/4".

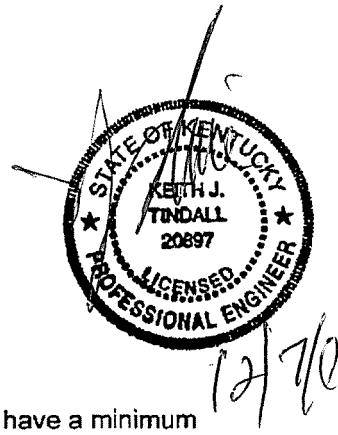
5). The foundation design is based on the geotechnical report by Terracon project no. 57057366G, dated: 11-14-05

6). See the geotechnical report for drilled pier installation requirements, if specified.

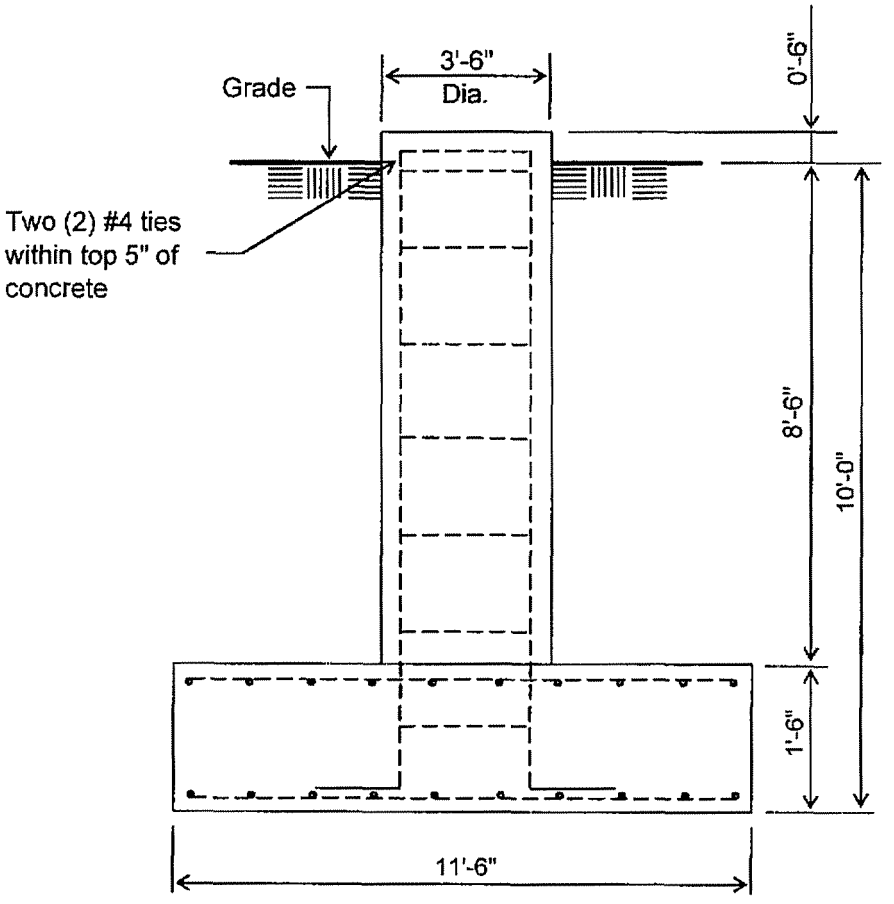
Rebar Schedule per Pier	
Pier	(12) #7 vertical rebar w/#4 ties, two (2) within top 5" of pier then 12" C/C

Customer: BLUEGRASS WIRELESS LLC
Site: Bronston, KY

240 ft. Model S3R Self Supporting Tower At
70 mph Wind + 0.5 in. Ice per ANSI/TIA/EIA-222-F-1996.
Antenna Loading per Page 1



12/7/05



ELEVATION VIEW
(10.55 Cu. Yds. each)
(3 REQUIRED)

Notes:

1). Concrete shall have a minimum 28-day compressive strength of 3000 PSI, in accordance with ACI 318-02.

2). Rebar to conform to ASTM specification A615 Grade 60.

3). All rebar to have a minimum of 3" concrete cover.

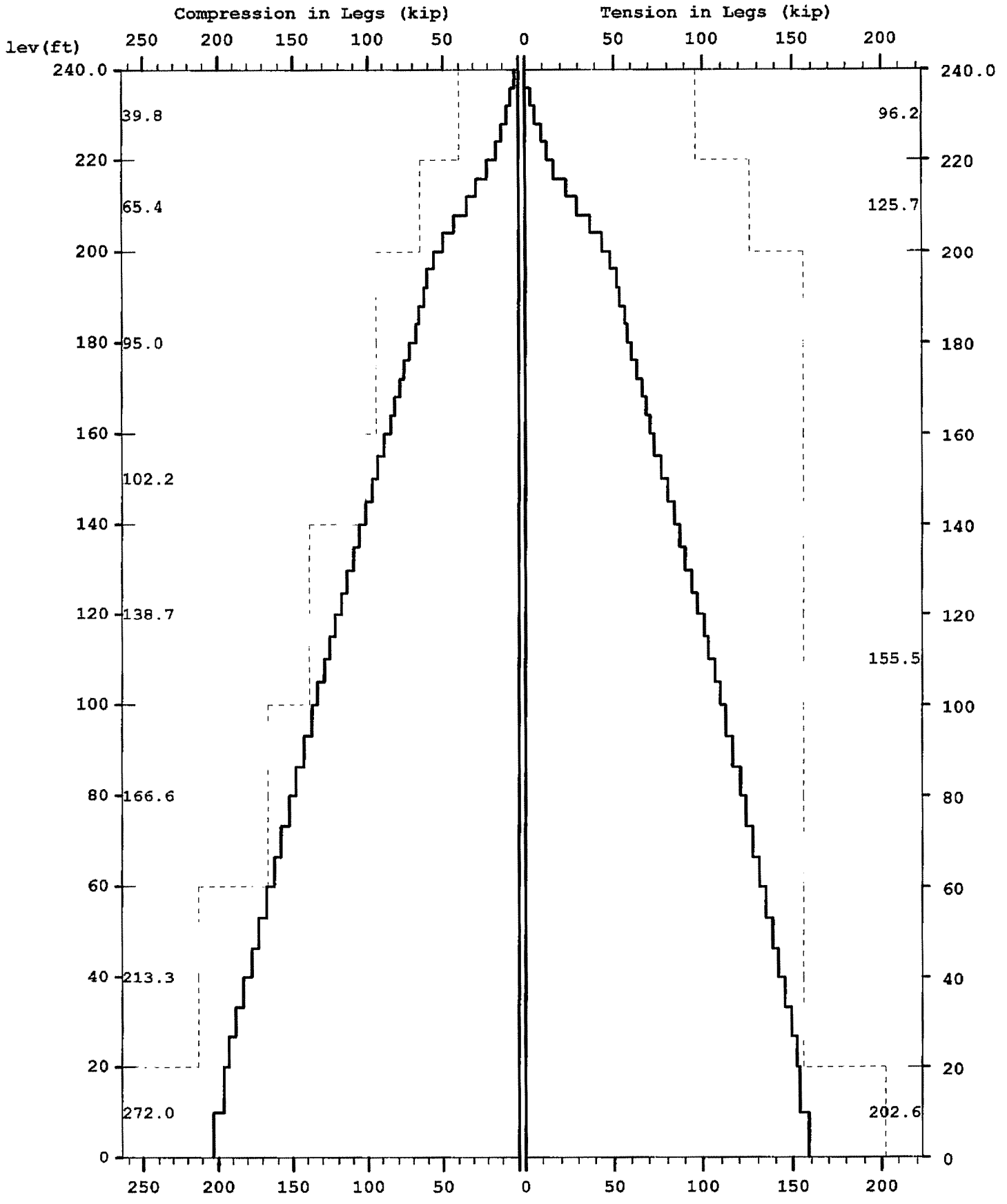
4). All exposed concrete corners to be chamfered 3/4".

5). The foundation design is based on the geotechnical report by Terracon project no. 57057366G, dated: 11-14-05

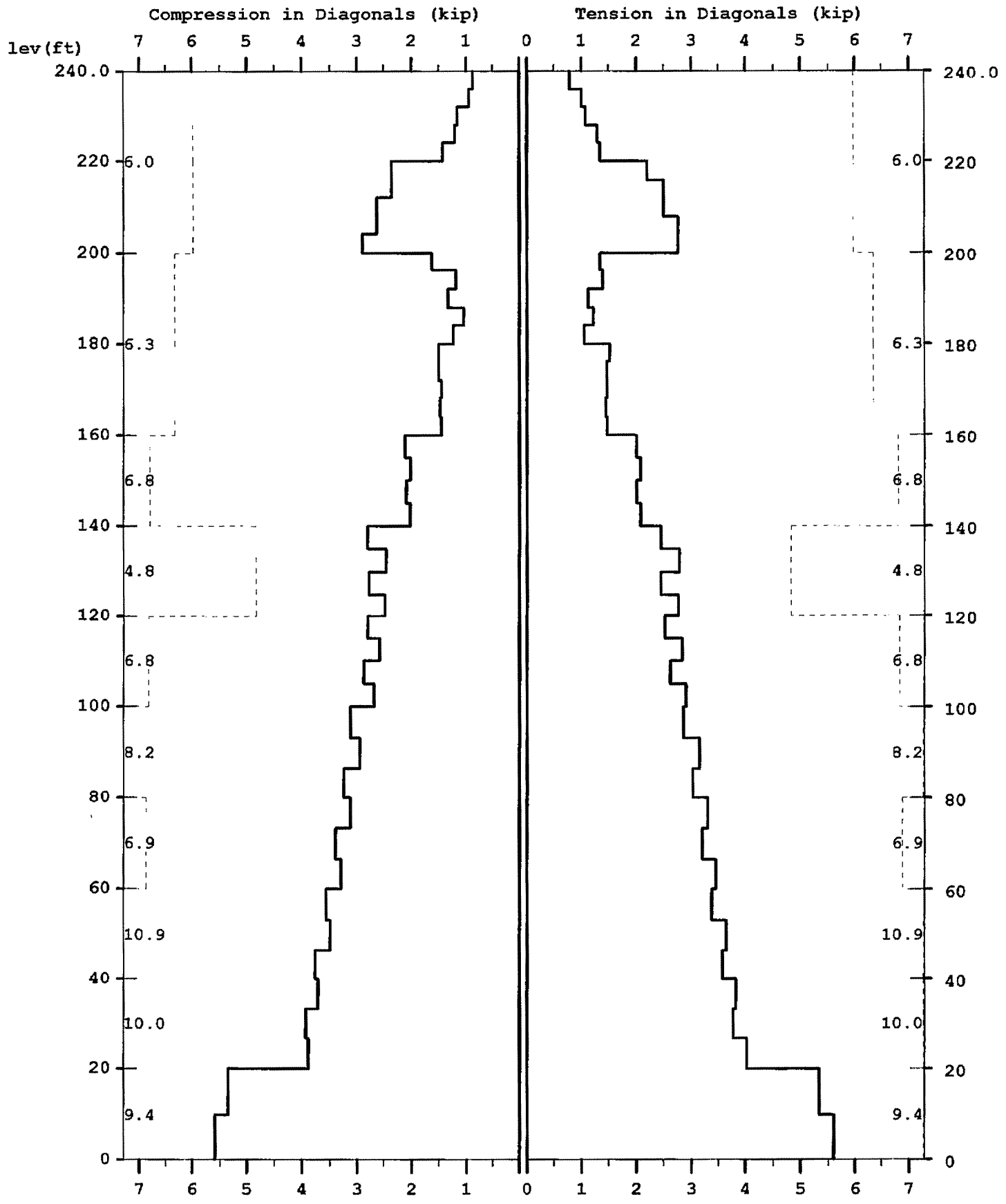
6). See the geotechnical report for compaction requirements, if specified.

Rebar Schedule per Pad and Pier	
Pier	(12) #7 vertical rebar w/hooks at bottom w/#4 ties, two (2) within top 5" of pier then 12" C/C
Pad	(12) #7 horizontal rebar evenly spaced each way top and bottom (48 Total)

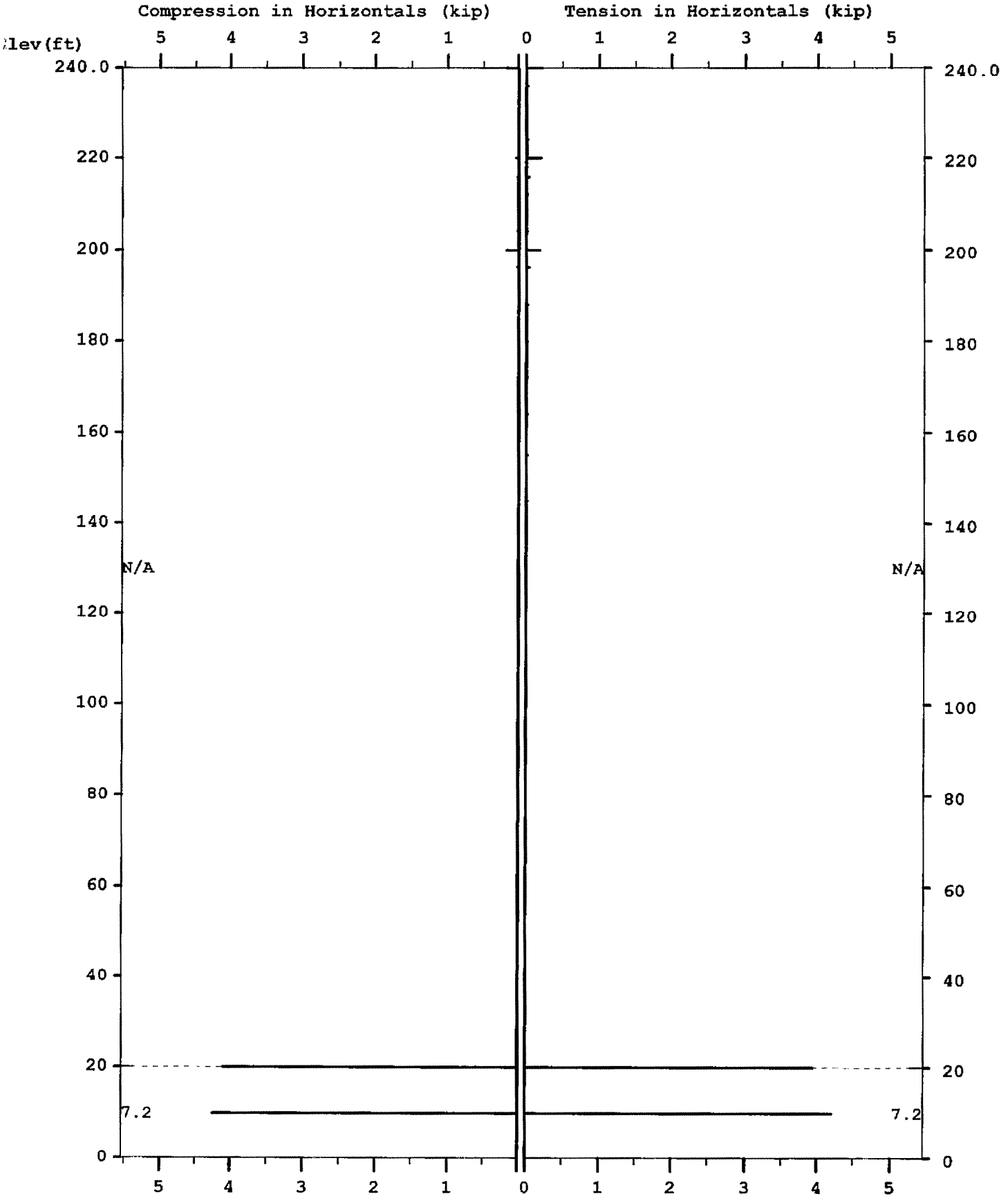
240' S3R BLUEGRASS WIRELESS LLC Bronston KY (06-12048) REBEACOM
Maximum



240' S3R BLUEGRASS WIRELESS LLC Bronston KY (06-12048) REBEACOM
Maximum

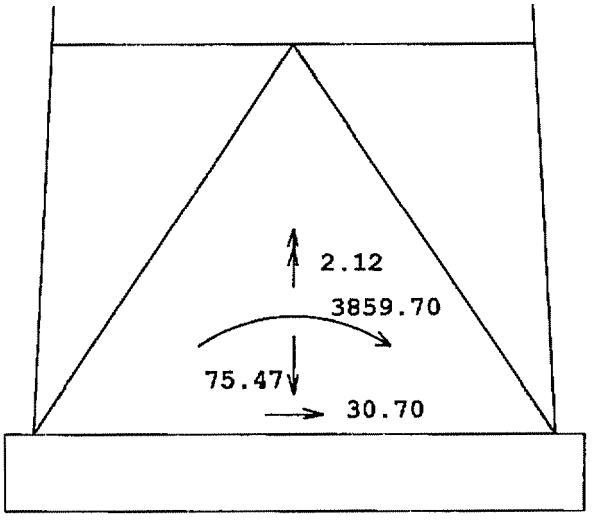


240' S3R BLUEGRASS WIRELESS LLC Bronston KY (06-12048) REBEACOM
Maximum

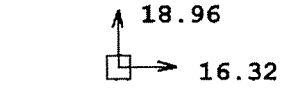


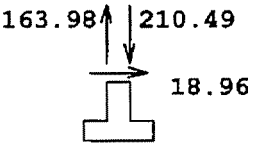
240' S3R BLUEGRASS WIRELESS LLC Bronston KY (06-12048) REBEACOM
Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)





MAST - Latticed Tower Analysis (Unguyed) (c)1997 Guymast Inc. 416-736-7453
Processed under license at:

Sabre Communications Corporation on: 7 dec 2005 at: 8:19:51

240' S3R BLUEGRASS WIRELESS LLC Bronston KY (06-12048) REBEACOM

MAST GEOMETRY (ft)

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	3	220.00	240.00	3.00	3.00	4.00
X	3	200.00	220.00	3.00	3.00	4.00
X	3	180.00	200.00	5.00	3.00	4.00
X	3	160.00	180.00	7.00	5.00	4.00
X	3	140.00	160.00	9.00	7.00	5.00
X	3	120.00	140.00	11.00	9.00	5.00
X	3	100.00	120.00	13.00	11.00	5.00
X	3	80.00	100.00	15.00	13.00	6.67
X	3	60.00	80.00	17.00	15.00	6.67
X	3	40.00	60.00	19.00	17.00	6.67
X	3	20.00	40.00	21.00	19.00	6.67
A	3	0.00	20.00	23.00	21.00	10.00

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	220.00	240.00	2.405	0.000	29000.	0.0000000
LE	200.00	220.00	3.142	0.000	29000.	0.0000000
LE	160.00	200.00	3.976	0.000	29000.	0.0000000
LE	140.00	160.00	4.909	0.000	29000.	0.0000000
LE	100.00	140.00	5.940	0.000	29000.	0.0000000
LE	60.00	100.00	8.296	0.000	29000.	0.0000000
LE	0.00	60.00	9.621	0.000	29000.	0.0000000
DI	160.00	240.00	0.621	0.000	29000.	0.0000000
DI	120.00	160.00	0.715	0.000	29000.	0.0000000
DI	100.00	120.00	0.902	0.000	29000.	0.0000000
DI	60.00	100.00	1.090	0.000	29000.	0.0000000
DI	20.00	60.00	1.687	0.000	29000.	0.0000000
DI	0.00	20.00	1.090	0.000	29000.	0.0000000
HO	236.00	240.00	0.621	0.000	29000.	0.0000000
HO	216.00	220.00	0.621	0.000	29000.	0.0000000
HO	196.00	200.00	0.621	0.000	29000.	0.0000000
HO	0.00	20.00	1.090	0.000	29000.	0.0000000
BR	0.00	20.00	1.090	0.000	29000.	0.0000000

* 12 wind directions were analyzed, with & without ice. Only two conditions are shown in full.

LOADING CONDITION A ==========

70 MPH + NO ICE WIND AZ 0 DEGREES

MAST LOADING
============

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	240.0	0.00	0.0	0.0	1.36	2.49	0.00	0.00
C	220.0	0.00	0.0	0.0	1.33	2.49	0.00	0.00
C	200.0	0.00	0.0	0.0	1.30	2.49	0.00	0.00
C	180.0	0.00	0.0	0.0	1.26	2.49	0.00	0.00
C	160.0	0.00	0.0	0.0	1.22	2.49	0.00	0.00
D	240.0	0.00	0.0	0.0	0.07	0.06	0.00	0.00
D	236.0	0.00	0.0	0.0	0.07	0.06	0.00	0.00
D	236.0	0.00	0.0	0.0	0.06	0.05	0.00	0.00
D	220.0	0.00	0.0	0.0	0.06	0.05	0.00	0.00
D	220.0	0.00	0.0	0.0	0.06	0.07	0.00	0.00
D	216.0	0.00	0.0	0.0	0.06	0.07	0.00	0.00
D	216.0	0.00	0.0	0.0	0.06	0.07	0.00	0.00
D	200.0	0.00	0.0	0.0	0.06	0.07	0.00	0.00
D	200.0	0.00	0.0	0.0	0.06	0.09	0.00	0.00
D	196.0	0.00	0.0	0.0	0.06	0.09	0.00	0.00
D	196.0	0.00	0.0	0.0	0.06	0.09	0.00	0.00
D	180.0	0.00	0.0	0.0	0.07	0.09	0.00	0.00
D	180.0	0.00	0.0	0.0	0.07	0.10	0.00	0.00
D	160.0	0.00	0.0	0.0	0.07	0.10	0.00	0.00
D	160.0	0.00	0.0	0.0	0.08	0.12	0.00	0.00
D	140.0	0.00	0.0	0.0	0.08	0.13	0.00	0.00
D	140.0	0.00	0.0	0.0	0.08	0.14	0.00	0.00
D	120.0	0.00	0.0	0.0	0.09	0.14	0.00	0.00
D	120.0	0.00	0.0	0.0	0.09	0.15	0.00	0.00
D	100.0	0.00	0.0	0.0	0.10	0.16	0.00	0.00
D	100.0	0.00	0.0	0.0	0.10	0.18	0.00	0.00
D	80.0	0.00	0.0	0.0	0.10	0.19	0.00	0.00
D	80.0	0.00	0.0	0.0	0.10	0.19	0.00	0.00
D	60.0	0.00	0.0	0.0	0.10	0.19	0.00	0.00
D	60.0	0.00	0.0	0.0	0.10	0.24	0.00	0.00
D	40.0	0.00	0.0	0.0	0.10	0.25	0.00	0.00
D	40.0	0.00	0.0	0.0	0.09	0.25	0.00	0.00
D	20.0	0.00	0.0	0.0	0.10	0.26	0.00	0.00
D	20.0	0.00	0.0	0.0	0.13	0.26	0.00	0.00
D	0.0	0.00	0.0	0.0	0.13	0.27	0.00	0.00

ANTENNA LOADING
===============

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT RAD ft	AZI	.....ANTENNA FORCES..... AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
HP	140.0	0.0	6.7	0.0	0.75	0.00	0.28	0.00

LOADING CONDITION M ==========

60.63 MPH + 0.5 ICE WIND AZ 0 DEGREES

MAST LOADING
============

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	240.0	0.00	0.0	0.0	1.13	3.13	0.00	0.00
C	220.0	0.00	0.0	0.0	1.11	3.13	0.00	0.00
C	200.0	0.00	0.0	0.0	1.08	3.13	0.00	0.00
C	180.0	0.00	0.0	0.0	1.04	3.13	0.00	0.00
C	160.0	0.00	0.0	0.0	1.01	3.13	0.00	0.00
D	240.0	0.00	0.0	0.0	0.07	0.09	0.00	0.00
D	236.0	0.00	0.0	0.0	0.07	0.09	0.00	0.00
D	236.0	0.00	0.0	0.0	0.07	0.09	0.00	0.00
D	220.0	0.00	0.0	0.0	0.07	0.09	0.00	0.00
D	220.0	0.00	0.0	0.0	0.07	0.12	0.00	0.00
D	216.0	0.00	0.0	0.0	0.07	0.12	0.00	0.00
D	216.0	0.00	0.0	0.0	0.07	0.11	0.00	0.00
D	200.0	0.00	0.0	0.0	0.07	0.11	0.00	0.00
D	200.0	0.00	0.0	0.0	0.07	0.15	0.00	0.00
D	196.0	0.00	0.0	0.0	0.07	0.15	0.00	0.00
D	196.0	0.00	0.0	0.0	0.06	0.14	0.00	0.00
D	180.0	0.00	0.0	0.0	0.07	0.15	0.00	0.00
D	180.0	0.00	0.0	0.0	0.07	0.17	0.00	0.00
D	160.0	0.00	0.0	0.0	0.07	0.17	0.00	0.00
D	160.0	0.00	0.0	0.0	0.07	0.21	0.00	0.00
D	140.0	0.00	0.0	0.0	0.08	0.21	0.00	0.00
D	140.0	0.00	0.0	0.0	0.08	0.23	0.00	0.00
D	120.0	0.00	0.0	0.0	0.08	0.24	0.00	0.00
D	120.0	0.00	0.0	0.0	0.09	0.25	0.00	0.00
D	100.0	0.00	0.0	0.0	0.09	0.26	0.00	0.00
D	100.0	0.00	0.0	0.0	0.09	0.28	0.00	0.00
D	80.0	0.00	0.0	0.0	0.09	0.29	0.00	0.00
D	80.0	0.00	0.0	0.0	0.09	0.29	0.00	0.00
D	60.0	0.00	0.0	0.0	0.09	0.30	0.00	0.00
D	60.0	0.00	0.0	0.0	0.09	0.36	0.00	0.00
D	40.0	0.00	0.0	0.0	0.09	0.37	0.00	0.00
D	40.0	0.00	0.0	0.0	0.09	0.38	0.00	0.00
D	20.0	0.00	0.0	0.0	0.09	0.39	0.00	0.00
D	20.0	0.00	0.0	0.0	0.12	0.42	0.00	0.00
D	0.0	0.00	0.0	0.0	0.12	0.42	0.00	0.00

ANTENNA LOADING
===============

.....ANTENNA..... TYPE	ELEV ft	AZI	ATTACHMENT RAD ft	AZI	.....ANTENNA FORCES..... AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
HP	140.0	0.0	6.7	0.0	0.57	0.00	0.50	0.00

MAXIMUM MAST DISPLACEMENTS:
===========================

ELEV ft	------DEFLECTIONS (ft)----- NORTH	EAST	DOWN	--TILTS (DEG)--- NORTH	EAST	TWIST DEG
240.0	2.455 G	2.346 J	0.031 S	1.478 G	1.424 J	0.018 D
236.0	2.351 G	2.246 J	0.030 S	1.477 G	1.422 J	0.018 D

232.0	2.248 G	2.147 J	0.029 S	1.469 G	1.415 J	0.018 D
228.0	2.146 G	2.048 J	0.028 S	1.457 G	1.403 J	0.018 D
224.0	2.044 G	1.950 J	0.026 S	1.438 G	1.384 J	0.018 D
220.0	1.944 G	1.854 J	0.025 S	1.412 G	1.359 J	0.018 D
216.0	1.845 G	1.759 J	0.024 S	1.385 G	1.332 J	0.018 D
212.0	1.750 G	1.667 J	0.023 S	1.347 G	1.296 J	0.018 D
208.0	1.657 G	1.578 J	0.022 S	1.300 G	1.250 J	0.018 D
204.0	1.566 G	1.491 J	0.021 S	1.241 G	1.192 J	0.018 D
200.0	1.481 G	1.409 J	0.020 S	1.171 G	1.125 J	0.018 D
196.0	1.401 G	1.332 J	0.019 S	1.114 G	1.069 J	0.018 D
192.0	1.326 G	1.260 J	0.018 S	1.061 G	1.018 J	0.018 D
188.0	1.253 G	1.190 J	0.018 S	1.010 G	0.968 J	0.018 D
184.0	1.184 G	1.124 J	0.017 S	0.962 G	0.922 J	0.018 D
180.0	1.118 G	1.061 J	0.016 S	0.917 G	0.878 J	0.018 D
176.0	1.056 G	1.001 J	0.016 S	0.873 G	0.835 J	0.018 D
172.0	0.996 G	0.944 J	0.015 S	0.830 G	0.794 J	0.018 D
168.0	0.939 G	0.890 J	0.014 S	0.789 G	0.754 J	0.018 D
164.0	0.885 G	0.838 J	0.014 S	0.749 G	0.715 J	0.018 D
160.0	0.834 G	0.789 J	0.013 S	0.709 G	0.677 J	0.018 D
155.0	0.773 G	0.731 J	0.013 S	0.670 G	0.639 J	0.018 D
150.0	0.716 G	0.677 J	0.012 S	0.632 G	0.603 J	0.018 D
145.0	0.661 G	0.624 J	0.012 S	0.595 G	0.566 J	0.018 D
140.0	0.610 G	0.576 J	0.011 S	0.558 G	0.531 J	0.018 D
135.0	0.562 G	0.530 J	0.011 S	0.528 G	0.502 J	0.016 D
130.0	0.516 G	0.487 J	0.010 W	0.499 G	0.474 J	0.014 D
125.0	0.473 G	0.445 J	0.010 S	0.470 G	0.446 J	0.013 D
120.0	0.432 G	0.407 J	0.009 W	0.441 G	0.419 J	0.011 D
115.0	0.393 G	0.370 J	0.009 S	0.413 G	0.391 J	0.010 D
110.0	0.358 G	0.337 J	0.008 W	0.385 G	0.365 J	0.009 D
105.0	0.324 G	0.305 J	0.008 S	0.357 G	0.338 J	0.008 D
100.0	0.293 G	0.276 J	0.007 W	0.330 G	0.312 J	0.007 D
93.3	0.255 G	0.239 J	0.007 S	0.304 G	0.287 J	0.006 D
86.7	0.220 G	0.207 J	0.007 W	0.279 G	0.263 J	0.006 D
80.0	0.188 G	0.176 J	0.006 S	0.254 G	0.239 J	0.005 D
73.3	0.158 G	0.148 J	0.006 W	0.229 G	0.216 J	0.004 D
66.7	0.131 G	0.123 J	0.005 S	0.204 G	0.193 J	0.004 D
60.0	0.107 G	0.100 J	0.005 W	0.180 G	0.170 J	0.003 D
53.3	0.086 G	0.081 J	0.004 S	0.159 G	0.150 J	0.003 D
46.7	0.068 G	0.063 J	0.004 W	0.139 G	0.131 J	0.002 D
40.0	0.052 G	0.048 J	0.003 S	0.119 G	0.112 J	0.002 D
33.3	0.038 G	0.035 J	0.003 M	0.098 G	0.093 J	0.002 D
26.7	0.025 G	0.023 J	0.002 S	0.078 G	0.073 J	0.002 D
20.0	0.016 G	0.014 J	0.002 M	0.058 G	0.055 J	0.001 D
10.0	0.006 G	0.005 J	0.001 P	0.029 G	0.027 J	0.001 D
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM ANTENNA ROTATIONS:

ELEV ft	ANT AZI	ANT TYPE	BEAM DEFLECTIONS (DEG) PITCH	YAW	ROLL	TOTAL
140.0	0.0	HP	-0.531 J	0.018 D	-0.558 G	0.531 J

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
240.0	----------		0.23 G	0.00 A

	0.23 I	0.79 F			
236.0				0.01 A	0.00 A
	2.68 A	1.01 B			
232.0				0.00 E	0.00 A
	5.45 A	1.08 H			
228.0				0.00 W	0.00 A
	8.67 A	1.29 J			
224.0				0.01 E	0.00 A
	12.18 A	1.36 H			
220.0				0.20 M	0.00 A
	16.06 A	2.20 F			
216.0				0.03 A	0.00 A
	22.93 A	2.49 F			
212.0				0.01 I	0.00 A
	29.17 A	2.49 H			
208.0				0.01 A	0.00 A
	36.79 A	2.76 B			
204.0				0.02 A	0.00 A
	43.76 A	2.77 H			
200.0				0.18 G	0.00 A
	48.02 A	1.34 A			
196.0				0.03 A	0.00 A
	51.76 A	1.40 G			
192.0				0.00 Q	0.00 A
	53.47 A	1.13 A			
188.0				0.02 A	0.00 A
	56.36 A	1.22 G			
184.0				0.01 A	0.00 A
	57.98 A	1.04 A			
180.0				0.01 M	0.00 A
	59.98 A	1.53 B			
176.0				0.01 A	0.00 A
	62.82 A	1.47 B			
172.0				0.01 M	0.00 A
	65.65 A	1.48 B			
168.0				0.01 E	0.00 A
	68.17 A	1.45 H			
164.0				0.01 A	0.00 A
	70.70 A	1.48 J			
160.0				0.00 Q	0.00 A
	72.79 A	2.02 H			
155.0				0.01 A	0.00 A
	76.77 A	2.08 J			
150.0				0.00 M	0.00 A
	80.02 E	2.01 L			
145.0				0.01 J	0.00 A
	83.57 A	2.08 H			
140.0				0.00 G	0.00 A
	86.80 A	2.44 H			
135.0				0.01 J	0.00 A
	90.25 E	2.78 L			
130.0				0.00 H	0.00 A
	93.71 A	2.46 H			
125.0				0.01 P	0.00 A
	96.70 A	2.78 L			
120.0				0.00 H	0.00 A
	100.14 A	2.52 H			
115.0				0.01 V	0.00 A
	103.00 A	2.83 L			
110.0				0.00 M	0.00 A
	106.27 A	2.62 H			
105.0				0.00 V	0.00 A
	109.07 A	2.91 L			

100.0	----------	0.00 M	0.00 A
	112.69 A 2.87 H		
93.3	----------	0.01 V	0.00 A
	116.31 A 3.17 L		
86.7	----------	0.00 M	0.00 A
	120.29 A 3.03 H		
80.0	----------	0.00 V	0.00 A
	123.86 A 3.31 L		
73.3	----------	0.00 M	0.00 A
	127.72 A 3.20 H		
66.7	----------	0.00 U	0.00 A
	131.23 A 3.46 L		
60.0	----------	0.00 M	0.00 A
	134.95 A 3.38 H		
53.3	----------	0.00 U	0.00 A
	138.32 A 3.64 L		
46.7	----------	0.00 M	0.00 A
	141.92 A 3.58 H		
40.0	----------	0.00 U	0.00 A
	145.28 A 3.83 B		
33.3	----------	0.00 J	0.00 A
	148.81 A 3.77 H		
26.7	----------	0.00 U	0.00 A
	152.12 A 4.01 B		
20.0	----------	3.95 H	0.00 S
	153.44 A 5.35 L		
10.0	----------	4.20 L	0.00 E
	158.56 A 5.60 L		
0.0	----------	0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
240.0	----------		-0.18 A	0.00 A
	-1.91 O	-0.87 F		
236.0	----------		0.00 G	0.00 A
	-4.73 G	-0.94 H		
232.0	----------		0.00 K	0.00 A
	-7.50 G	-1.15 H		
228.0	----------		0.00 A	0.00 A
	-11.22 G	-1.22 H		
224.0	----------		-0.01 G	0.00 A
	-14.80 G	-1.43 H		
220.0	----------		-0.05 K	0.00 A
	-20.58 G	-2.37 G		
216.0	----------		-0.03 C	0.00 A
	-28.36 G	-2.35 H		
212.0	----------		-0.01 C	0.00 A
	-34.62 G	-2.63 H		
208.0	----------		0.00 C	0.00 A
	-43.18 G	-2.63 H		
204.0	----------		-0.02 G	0.00 A
	-50.24 G	-2.90 B		
200.0	----------		-0.18 I	0.00 A
	-56.50 G	-1.63 G		

196.0			-0.03	G	0.00 A
	-61.25	G -1.18 A			
192.0			0.00	G	0.00 A
	-62.85	G -1.34 G			
188.0			-0.02	G	0.00 A
	-66.52	G -1.04 A			
184.0			-0.01	G	0.00 A
	-68.20	G -1.23 S			
180.0			-0.01	G	0.00 A
	-72.46	G -1.51 B			
176.0			-0.01	G	0.00 A
	-75.63	G -1.50 B			
172.0			-0.01	G	0.00 A
	-78.96	G -1.46 B			
168.0			-0.01	K	0.00 A
	-81.85	G -1.48 B			
164.0			-0.01	G	0.00 A
	-84.88	G -1.47 J			
160.0			0.00	C	0.00 A
	-89.04	G -2.11 G			
155.0			-0.01	G	0.00 A
	-93.84	G -2.01 H			
150.0			0.00	C	0.00 A
	-97.58	K -2.08 H			
145.0			-0.01	G	0.00 A
	-101.93	G -2.03 L			
140.0			0.00	A	0.00 A
	-106.08	G -2.81 L			
135.0			-0.01	J	0.00 A
	-110.20	G -2.45 H			
130.0			0.00	A	0.00 A
	-114.19	G -2.78 L			
125.0			0.00	J	0.00 A
	-118.16	G -2.49 H			
120.0			0.00	B	0.00 A
	-122.00	G -2.81 L			
115.0			0.00	J	0.00 A
	-125.86	G -2.57 H			
110.0			0.00	B	0.00 A
	-129.63	G -2.88 L			
105.0			0.00	J	0.00 A
	-133.43	G -2.68 H			
100.0			0.00	K	0.00 A
	-137.78	G -3.12 L			
93.3			0.00	G	0.00 A
	-142.82	G -2.96 H			
86.7			0.00	K	0.00 A
	-147.78	G -3.25 L			
80.0			0.00	G	0.00 A
	-152.77	G -3.13 H			
73.3			0.00	K	0.00 A
	-157.70	G -3.40 L			
66.7			0.00	G	0.00 A
	-162.65	G -3.30 H			
60.0			0.00	K	0.00 A
	-167.61	G -3.57 L			
53.3			0.00	G	0.00 A
	-172.66	G -3.50 H			
46.7			0.00	K	0.00 A
	-177.69	G -3.76 L			
40.0			0.00	G	0.00 A
	-182.75	G -3.70 H			
33.3			0.00	C	0.00 A

	-187.78 G	-3.94 B	
26.7	----------	0.00 G	0.00 A
	-192.83 G	-3.89 H	
20.0	----------	-4.11 B	0.00 L
	-195.82 G	-5.35 L	
10.0	----------	-4.26 B	0.00 V
	-203.47 G	-5.60 L	
0.0	----------	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD---COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
18.96 G	16.32 K	210.49 G	-163.98 A	18.96 G

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
30.7 G	28.3 J	30.7 G	75.5 P	3859.7 G	3617.1 J	3859.7 G	2.1 D

DRILLED STRAIGHT PIER DESIGN BY SABRE COMMUNICATIONS CORP.

Tower Description 240' S3R
Customer Name BLUEGRASS WIRELESS LLC
Job Number 06-12048
Date 12/7/2005
Engineer REB

Uplift (kips)	163.98	Anchor Bolt Count (per leg)	4
Download (kips)	210.49		
Shear (kips)	18.96		
Allowable End Bearing (ksf)	20		
Water Table Below Grade (ft)	999		
Bolt Circle Diameter (in)	16		
Top of Concrete to Top of Bottom Threads (in)	49		
Pier Diameter (ft)	3	Minimum Pier Diameter (ft)	2.83
Ht. Above Ground (ft)	0.5		
Pier Length Below Ground (ft)	18		
Quantity of Bars	12		
Bar Diameter (in)	0.875		
Tie Bar Diameter (in)	0.5		
Spacing of Ties (in)	12		
Area of Bars (in^2)	7.22	Minimum Area of Steel (in^2)	5.09
Spacing of Bars (in)	7.36		
f'c (ksi)	3		
fy (ksi)	60		
Unit Wt. of Soil (kcf)	0.130		
Unit Wt. of Concrete (kcf)	0.15		
Load Factor	1.3		
S.F. of Concrete	1.25		
S.F. of Skin Friction	2		
Volume of Concrete (yd^3)	4.84		
Skin Friction Factor for Uplift	1	Length to Ignore Download (ft)	
Ignore Bottom Length in Download?	☐	0	

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	(Ult. Skin Friction)*(Uplift Factor)	γ (kcf)
3	0.00	0.00	0.1
11	0.85	0.85	0.115
21	10.00	10.00	0.16
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0

Download:

Net Weight of Concrete (kips)	3.1		
Allowable End Bearing (kips)	141.4		
Allowable Skin Friction (kips)	361.9		
Allowable Download (kips)	503.3	Total Download (kips)	213.6

DRILLED STRAIGHT PIER DESIGN BY SABRE COMMUNICATIONS CORP. (CONTINUED)

Uplift:

Allowable Skin Friction (kips)	361.9		
Wc, Weight of Concrete (kips)	19.6		
W_R, Soil Resistance (kips)	330.0		
$(W_R/2)+(Wc/1.25)$ (kips)	180.7		
$(W_R+W_C)/1.5$ (kips)	233.1		
Allowable Uplift (kips)	180.7	Uplift (kips)	164.0

Pier Design:

Design Tensile Strength (kips)	389.7	Ultimate Tensile Load (kips)	213.2
ϕV_n (kips)	91.9	V_u (kips)	24.6
$\phi V_c=\phi 2(1+N_u/(500A_g))f'_c{}^{1/2}b_wd$ (kips)	49.5		
V_s (kips)	56.5	*** V_s max = $4\ f'_c{}^{1/2}b_wd$ (kips)	227.2
Maximum Spacing (in)	13.09	(Only if Shear Ties are Required)	
		*** Ref. To Spacing Requirements ACI 11.5.4.3	

Anchor Bolt Pull-Out:

$\phi P_c=\phi\lambda(2/3)f'_c{}^{1/2}(2.8A_{SLOPE}+4A_{FLAT})$	125.4	P_u (kips)	213.2
Rebar Development Length (in)	39.94	Required Length of Development (in)	26.22

Condition	1 is OK, 0 Fails
Download	1
Uplift	1
Area of Steel	1
Shear	1
Anchor Bolt Pull-Out	1
Interaction Diagram Visual Check	1

PIER AND PAD DESIGN BY SABRE COMMUNICATIONS CORP.

Tower Description 240' S3R
Customer BLUEGRASS WIRELESS LLC
Project Number 06-12048
Date 12/7/2005
Engineer REB

Uplift (kips)	163.98	Anchor Bolt Count (per leg)	4
Download (kips)	210.49		
Shear (kips)	18.96		
Width of Tower (ft)	23		
Allowable Bearing Pressure (ksf)	3	Maximum Soil Bearing Pressure (ksf)	2.46
Angle of Internal Friction (deg.)	30		
Water Table Below Grade (ft)	999		
Width of Pad (ft)	11.5	Maximum Width of Pad (ft)	19.42
Thickness of Pad (ft)	1.5		
Depth to Bottom of Pad (ft)	10		
Bolt Circle Diameter (in)	16		
Top of Concrete to Top of Bottom Threads (in)	49		
Diameter of Pier (ft)	3.5	Minimum Pier Diameter (ft)	2.83
Ht. of Pier Above Ground (ft)	0.5	Equivalent Square b (ft)	3.10
Ht. of Pier Below Ground (ft)	8.5		
Quantity of Bars in Pad	12		
Bar Diameter in Pad (in)	0.875		
Area of Bars in Pad (in^2)	7.22		
Spacing of Bars in Pad (in)	11.92	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	12		
Bar Diameter in Pier (in)	0.875		
Tie Bar Diameter in Pier (in)	0.5		
Spacing of Ties (in)	12		
Area of Bars in Pier (in^2)	7.22	Minimum Pier Area of Steel (in^2)	6.93
Spacing of Bars in Pier (in)	8.93		
f'c (ksi)	3		
fy (ksi)	60		
Unit Wt. of Soil (kcf)	0.115		
Unit Wt. of Concrete (kcf)	0.15		
Load Factor	1.3		
Volume of Concrete (yd^3)	10.55		
Uplift:			
Wc, Weight of Concrete (kips)	42.7		
W_R, Soil Resistance (kips)	261.6		
$(W_R/2)+(Wc/1.25)$ (kips)	165.0		
$(W_R+W_C)/1.5$ (kips)	202.9		
Allowable Uplift (kips)	165.0	Uplift (kips)	164.0
Pier Design:			
Design Tensile Strength (kips)	389.7	Ultimate Tensile Load (kips)	213.2
ϕV_n (kips)	80.3	V_u (kips)	24.6
$\phi V_c=\phi 2(1+N_u/(500A_g))f'_c{}^{1/2}b_w d$ (kips)	80.3		
V_s (kips)	0.0	*** V_s max = $4\ f'_c{}^{1/2}b_w d$ (kips)	309.2

p-A-11

PIER AND PAD DESIGN BY SABRE COMMUNICATIONS CORP. (CONTINUED)

Pier Design (Continued) :

Maximum Spacing (in)	11.22	(Only if Shear Ties are Required)
		*** Ref. To Spacing Requirements ACI 11.5.4.3

Anchor Bolt Pull-Out:

$\phi P_c = \phi\lambda(2/3)f'_c{}^{1/2}(2.8A_{SLOPE} + 4A_{FLAT})$	170.5	P_u (kips)	213.2
Pier Rebar Development Length (in)	36.94	Required Length of Development (in)	26.22

Two-Way Shear Action:

q_{ult} (ksf)	3.22		
Average d (in)	14.13		
ϕV_c (kips)	409.2	V_u (kips)	370.3
$\phi V_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}b_o d$	613.9		
$\phi V_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}b_o d$	532.5		
$\phi V_c = \phi 4f'_c{}^{1/2}b_o d$	409.2		
Shear perimeter, b_o (in)	176.32		
β_c	1		

One-Way Shear:

ϕV_c (kips)	160.1	V_u (kips)	111.8

Flexure:

ϕM_n (ft-kips)	438.7	M_u (ft-kips)	326.2
a (in)	1.23		
Steel Ratio	0.00370		
β_1	0.85		
Maximum Steel Ratio	0.0160		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	47.39	Required Development in Pad (in)	35.22

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Maximum Width of Pad	1
Uplift	1
Pier Area of Steel	1
Pier Shear	1
Anchor Bolt Pull-Out	1
Two-Way Shear Action	1
One-way Shear	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Interaction Diagram Visual Check	1

GEOTECHNICAL ENGINEERING REPORT

PROPOSED BRONSTON COMMUNICATION TOWER
BRONSTON, PULASKI COUNTY, KENTUCKY

TERRACON PROJECT NO.: 57057364G
November 7, 2005

Prepared For:

RSB DESIGN
Louisville, Kentucky

Prepared by:

Terracon

Louisville, Kentucky

Terracon

November 7, 2005

Terracon
Consulting Engineers & Scientists

Terracon Consultants, Inc.
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Phone 615.333.6444
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www.terracon.com

RSB Design
6403 Mercury Drive
Louisville, Kentucky 40291

Attention: Robin Becker

Re: Geotechnical Engineering Report
Proposed Bronston Communication Tower
Bronston, Pulaski County, Kentucky
Terracon Project No.: 57057364G

Dear Mr. Becker:

We are submitting, herewith, the results of our subsurface exploration for the referenced project. The purpose of this exploration was to obtain information on subsurface conditions at the proposed project site and, based on this information, to provide recommendations regarding the design and construction of foundations for the proposed tower.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service to you in any way, please feel free to contact us.

Sincerely,
Terracon

Shaikh Z. Rahman, EIT.
Staff Engineer

Timothy G. LaGrow, P.E.
Kentucky No. 17758

STATE OF KENTUCKY
TIMOTHY G. LaGROW
17758
REGISTERED
PROFESSIONAL ENGINEER

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Attachments: Geotechnical Engineering Report

Copies: (4) Addressee

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GEOTECHNICAL ENGINEERING REPORT

PROPOSED BRONSTON COMMUNICATION TOWER
BROSTON, PULASKI COUNTY, KENTUCKY

TERRACON PROJECT NO.: 57057364G
November 7, 2005

1.0 INTRODUCTION

The purpose of this report is to describe the subsurface conditions encountered in the boring, analyze and evaluate the test data, and provide recommendations regarding the design and construction of foundations and earthwork for the proposed tower. One (1) boring extending to a depth of about 18 feet below the existing ground surface was drilled at the site. An individual boring log and a boring location plan are included with this report.

2.0 PROJECT DESCRIPTION

Terracon understands the proposed project will consist of the construction of a 240-foot self supporting lattice tower. Exact tower loads are not available, but based on our past experience are anticipated to be as follows:

Vertical Load:	600 kips
Horizontal Shear:	80 kips
Uplift:	500 kips

A small, lightly loaded equipment building will also be constructed. Wall and floor loads for this building are not anticipated to exceed 1 kip per linear foot and 100 pounds per square foot, respectively. Existing and proposed grades within the tower leasehold area were not available as of this writing. We assumed minimal cut and fill will be required to level the site for construction.

3.0 EXPLORATION PROCEDURES

3.1 Field Exploration

The subsurface exploration consisted of drilling and sampling one (1) boring at the site to a depth of about 18 feet below existing grade. The boring was advanced at the center of the tower, staked by the project surveyor. Ground surface elevation was not available at the time of this writing and has been omitted from the boring log. The location of the boring should be considered accurate only to the degree implied by the means and methods used to define them.

The boring was drilled with a truck-mounted rotary drill rig using hollow stem augers to advance the borehole. Representative soil samples were obtained by the split-barrel

sampling procedure in general accordance with the appropriate ASTM standard. In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance (SPT) value (N-Value). This value is used to estimate the in-situ relative density of cohesionless soils and the consistency of cohesive soils. The sampling depths, penetration distance, and standard penetration resistance values are shown on the boring log. The samples were sealed and delivered to the laboratory for testing and classification.

Auger refusal was encountered at a depth of about 8 feet below the existing ground surface. The boring was extended into the refusal materials using a diamond bit attached to the outer barrel of a double core barrel. The inner barrel collected the cored material as the outer barrel was rotated at high speeds to cut the rock. The barrel was retrieved to the surface upon completion of each drill run. Once the core samples were retrieved, they were placed in a box and logged. The rock was later classified by an engineer and the "percent recovery" and rock quality designation (RQD) was determined.

The "percent recovery" is the ratio of the sample length retrieved to the drilled length, expressed as a percent. An indication of the actual in-situ rock quality is provided by calculating the sample's RQD. The RQD is the percentage of the length of broken cores retrieved which have core segments at least 4 inches in length compared to each drilled length. The RQD is related to rock soundness and quality as illustrated below:

Table 1 – Rock Quality Designation (RQD)

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 -25	Very Poor

A field log of the boring was prepared by a subcontract driller. This log included visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. The final boring log included with this report represents an interpretation of the driller's field log and a visual classification of the soil samples made by the Geotechnical Engineer.

3.2 Laboratory Testing

The samples were classified in the laboratory based on visual observation, texture and plasticity. The descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are given on the boring log. A brief description of this classification system is attached to this report.

The laboratory testing program consisted of performing water content tests and an Atterberg Limits test on representative soil samples. A calibrated hand penetrometer was used to estimate the approximate unconfined compressive strength of the samples. The calibrated hand penetrometer has been correlated with unconfined compression tests and provides a better estimate of soil consistency than visual examination alone. Information from these tests was used in conjunction with field penetration test data to evaluate soil strength in-situ, volume change potential, and soil classification. Results of these tests are provided on the boring log.

Classification and descriptions of rock core samples are in accordance with the enclosed General Notes, and are based on visual and tactile observations. Petrographic analysis of thin sections may indicate other rock types. Percent recovery and rock quality designation (RQD) were calculated for these samples and are noted at their depths of occurrence on the boring log.

4.0 EXPLORATORY FINDINGS

4.1 Subsurface Conditions

Conditions encountered at the boring location are indicated on the boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types and the transition between materials may be gradual. Water levels shown on the boring log represent the conditions only at the time of our exploration. Based on the results of the boring, subsurface conditions on the project site can be generalized as follows.

In general our boring encountered about 3 inches of topsoil overlying native fat clays (CH) to a depth of about 6 feet below grade. Under the clay stratum, highly weathered limestone was encountered, extending to auger refusal at about 8 feet below grade. The clays exhibited a very stiff to hard consistency based on standard penetration test (N) values in the range of 29 to 30 blows per foot (bpf). The underlying highly weathered limestone was hard based on an N-value of over 50 bpf.

Auger refusal was encountered at a depth of about 8 feet below existing grade. Rock coring techniques were employed to sample the refusal materials. The core samples consist of slightly weathered, hard, closely jointed limestone. Core recovery was 87 percent. Bedrock

quality is considered fair as defined by an RQD value of 69 percent. Coring operations were terminated at a depth of approximately 18 feet below grade.

4.2 Site Geology

Based on a review of the Frazer, Kentucky Geologic Quadrangle Map (1975), the site is underlain by the Kidder Limestone member of the Monteagle Limestone formation. The Kidder limestone member is made up of limestone, siltstone and shale. The limestone is medium to light-bluish gray and yellowish gray, micro-grained to medium-grained, thick bedded with interbedded clay shale. The Kidder limestone member can be 105 to 125 feet thick and the Monteagle limestone formation can be up to 190 feet thick.

It should be noted that the site is underlain by a limestone formation that is highly susceptible to dissolution along joints and bedding planes in the rock mass. This results in voids and solution channels within the rock strata and a highly irregular bedrock surface. The weathering of the bedrock and subsequent collapse or erosion of the overburden into these openings results in what is referred to as a karst topography. Any construction in karst topography is accompanied by some degree of risk for future internal soil erosion and ground subsidence that could affect the stability of the proposed structures. Our review of the available topographic and geologic mapping did not note any sinkholes on or around the site, or within a 1 mile radius of the property. Furthermore, the boring drilled at the site did not disclose any obvious signs of impending overburden collapse.

4.3 Groundwater Conditions

No groundwater was encountered during the auger drilling portion of the borehole. Water was used to advance the borehole during rock coring operations. The introduction of water into the borehole precluded obtaining accurate groundwater level readings at the time of drilling operations. Long term observation of the groundwater level in monitoring wells, sealed from the influence of surface water, would be required to obtain accurate groundwater levels on the site.

It should be recognized that fluctuations of the groundwater table may occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the boring was performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring log. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

5.0 ENGINEERING RECOMMENDATIONS

Based on the encountered subsurface conditions, the proposed tower can be either founded on drilled piers or on a mat foundation. The equipment building may be supported on shallow

spread footings. Design recommendations for the tower drilled piers and mat foundation as well as shallow footings for the equipment building are presented in the following paragraphs.

5.1 Tower Foundation

Tower Foundations - Drilled Pier Alternative: The proposed tower can be supported on drilled pier foundations. Based on the results of the boring, the following tower foundation design parameters have been developed:

Drilled Pier Foundation Design Parameters

Depth * (feet)	Description **	Allowable Skin Friction (psf)	Allowable End Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Internal Angle of Friction (Degree)	Cohesion (psf)	Lateral Subgrade Modulus (pci)	Strain, $\&_{50}$ (in/in)
0 - 3	Topsoil and Fat Clay	Ignore	Ignore	Ignore	-	-	Ignore	Ignore
3 - 6	Fat Clay	475	4,000	2,000	0	2,000	160	0.006
6 - 8	Weathered Limestone	650	8,000	4,000	0	4,000	320	0.004
8 - 18	Competent Limestone ***	6,000	20,000	12,500	0	120,000	3,000	0.00001

* Pier inspection is recommended to adjust pier length if variable soil/rock conditions are encountered.
** A total unit weight of 120 and 150 pcf can be estimated for the clays and limestone, respectively.
*** The pier should be embedded a minimum of 3 feet into competent limestone to mobilize these higher rock strength parameters. Furthermore, it is assumed the rock socket will be extended using coring techniques rather than blasting/shooting.

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety, and the allowable skin friction and the passive resistances have factors of safety of 2. The cohesion, internal friction angle, lateral subgrade modulus and strain values given in the above table are based on the boring, published correlation values and Terracon's past experience with similar soil/rock types. These values should, therefore, be considered approximate. To mobilize the higher rock strength parameters, the pier should be socketed at least 3 feet into competent bedrock. Furthermore, it is assumed that the rock socket is developed using coring rather than blasting techniques. The allowable end bearing pressure provided in the table has an approximate factor of safety of at least 3. Total settlement of drilled piers designed using the above parameters is not anticipated to exceed 1/2 inch.

The upper 3 feet of topsoil and fat clay should be ignored due to the potential affects of frost action and construction disturbance. To avoid a reduction in lateral and uplift resistance caused by variable subsurface conditions and or bedrock depths, the drawings should instruct the contractor to notify the engineer if subsurface conditions significantly different than encountered in the boring are disclosed during drilled pier installation. Under these circumstances, it may be necessary to adjust the overall length of the pier. To facilitate these

adjustments and assure that the pier is embedded in suitable materials, it is recommended that a Terracon representative observe the drilled pier excavation.

If a bedrock socket is required, it is recommended that a minimum pier length and minimum competent rock socket length be stated on the design drawings. Competent bedrock was encountered in the boring below a depth of about 8 feet, but could vary between tower legs or if the tower is moved from the location of the boring. If the tower center is moved from the planned location, Terracon should be notified to review the recommendations and determine whether an additional boring is required. To facilitate pier length adjustments that may be necessary because of variable rock conditions, it is recommended that a Terracon representative observe the drilled pier excavation.

A drilled pier foundation should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and possible dewatering of the pier excavation. Temporary casing may be required during the pier excavation in order to control possible groundwater seepage and support the sides of the excavation in weak soil zones. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement.

A concrete slump of at least 6 inches is recommended to facilitate temporary casing removal. It should be possible to remove the casing from a pier excavation during concrete placement provided that the concrete inside the casing is maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

Tower Foundations - Mat Foundation Alternative: If desired, a mat foundation can be used to support the proposed tower. The mat foundation can be designed using the following natural soil/engineered fill parameters. These parameters are based on the findings of the boring, a review of published correlation values and Terracon's experience with similar soil conditions. These design parameters also assume that the base of the mat foundation will rest on natural soils or well-graded crushed stone that is compacted and tested on a full time basis.

Mat Foundation Design Parameters

Depth (feet)	Description	Allowable Contact Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Coefficient of Friction, Tan δ	Vertical Modulus of Subgrade Reaction (pci)
0 - 2	Topsoil and Fat Clays	Ignore	Ignore	-	
≥ 2	Fat Clay or Crushed Stone Fill	4,000	Ignore	0.35	150

To assure that soft soils are not left under the mat foundation, it is recommended that a geotechnical engineer observe the foundation subgrade prior to concrete placement. Provided

the above recommendations are followed, total mat foundation settlements are not anticipated to exceed about 1 inch. Differential settlement should not exceed 50 percent of the total settlement. Differential settlements could reach 75 percent or more of the total settlement value, depending on the finished grades, any fill placement, and varying bedrock elevations.

5.2 Equipment Building Foundations

The proposed equipment shed may be supported on shallow footings bearing on stiff natural soils. The equipment building foundations should be dimensioned using a net allowable soil bearing pressure of 3,000 pounds per square foot (psf). In using net allowable soil pressures for footing dimensioning, the weight of the footings and backfill over the footings need not be considered. Furthermore, the footings should be at least 12 inches wide and a minimum of 1.5 feet square.

The geotechnical engineer or a qualified representative should observe the foundation excavations to verify that the bearing materials are suitable for support of the proposed loads. If, at the time of such observation, any soft soils are encountered at the design foundation elevation, the excavations should be extended downward so that the footings rest on stiff soils. If it is inconvenient to lower the footings, the proposed footing elevations may be re-established by backfilling after the undesirable material has been removed.

The recommended soil bearing value should be considered an upper limit, and any value less than that listed above would be acceptable for the foundation system. Using the value given, total settlement would be about 1 inch or less with differential settlements being less than 75 percent of total settlement. Footings should be placed at a depth of 2.0 feet, or greater, below finished exterior grade for protection against frost damage.

5.3 Parking and Drive Areas

The drive that accesses the site will be surfaced with crushed stone. Parking and drive areas that are surfaced with crushed stone should have a minimum thickness of 6 inches and be properly placed and compacted as outlined herein. The crushed stone should meet Kentucky Transportation Cabinet specifications and applicable local codes.

A paved section consisting only of crushed graded aggregate base course should be considered a high maintenance section. Regular care and maintenance is considered essential to the longevity and use of the section. Site grades should be maintained in such a manner as to allow for adequate surface runoff. Any potholes, depressions or excessive rutting that may develop should be repaired as soon as possible to reduce the possibility of degrading the soil subgrade.

5.4 Site Preparation

Site preparation should begin with the removal of any topsoil, loose, soft or otherwise unsuitable materials from the construction area. The geotechnical engineer should evaluate the actual stripping depth, along with any soft soils that require undercutting at the time of construction.

Any fill and backfill placed on the site should consist of approved materials that are free of organic matter and debris. Suitable fill material should consist of either granular material or low-plasticity cohesive soil (equipment building and roads only). Low-plasticity cohesive soil should have a liquid limit of less than 45 percent and a plasticity index of less than 25 percent. The on site soils are considered marginal for re-use as fill due to their high plasticity. It is recommended that during construction these soils should be further tested and evaluated prior to use as fill. Fill should not contain frozen material and it should not be placed on a frozen subgrade.

The fill should be placed and compacted in lifts of 9 inches or less in loose thickness. Fill placed below structures or used to provide lateral resistance should be compacted to at least 98 percent of the material's maximum standard Proctor dry density (ASTM D-698). Fill should be placed, compacted, and maintained at moisture contents within minus 1 to plus 3 percent of the optimum value determined by the standard Proctor test.

The geotechnical engineer should be retained to monitor fill placement on the project and to perform field density tests as each lift of fill is placed in order to evaluate compliance with the design requirements. Standard Proctor and Atterberg limits tests should be performed on the representative samples of fill materials before their use on the site.

6.0 GENERAL COMMENTS

Terracon should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Terracon also should be retained to provide testing and observation during excavation, grading, foundation and construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at the indicated location and from other information discussed in this report. This report does not reflect variations that may occur across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing.

APPENDIX

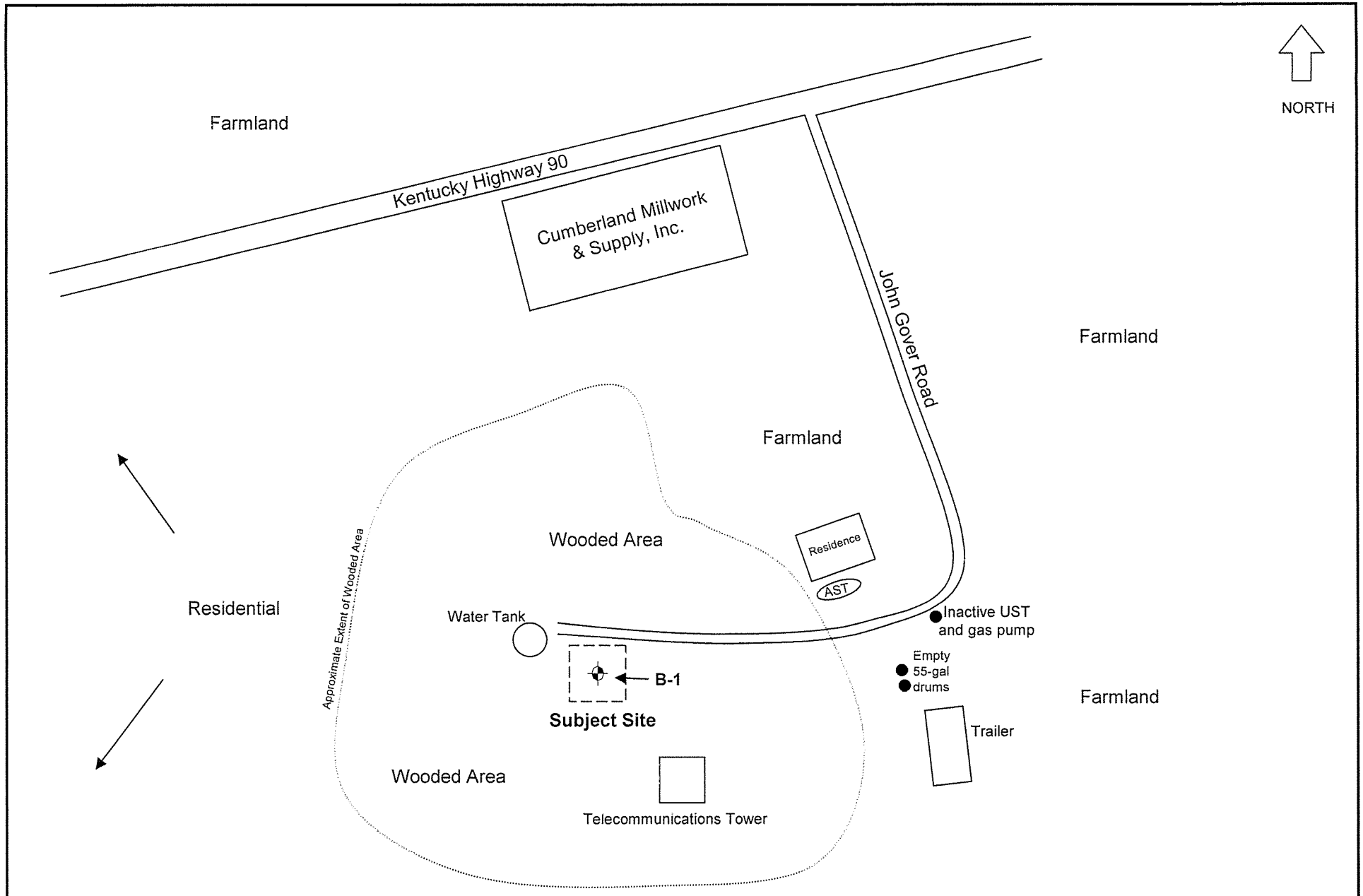

Figure 1

BORING LOCATION PLAN

SCALE: NTS

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RSB Design
Bronston Site
Bronston, Kentucky
PROJECT NO. 57057364G

LOG OF BORING NO. B-1

CLIENT **RSB Design**

SITE **Bronston, Kentucky**

PROJECT **240' Self-SupportingTower Bronston Site**

GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES NUMBER	SAMPLES TYPE	SAMPLES RECOVERY, in.	SAMPLES SPT - N BLOWS / ft.	TESTS WATER CONTENT, %	TESTS DRY UNIT WT pcf	TESTS UNCONFINED STRENGTH, psf	ATTERBERG LIMITS
	0.2 **TOPSOIL**										
	FAT CLAY, reddish brown, very stiff to hard, slightly moist		CH	1	SS	13	29	23		9000*	
			CH	2	SS	18	30	23		9000*	LL=60 PL=28 PI=32
	6 **WEATHERED LIMESTONE FRAGMENTS**, reddish brown	5		3	SS	2	50/2"				
	8 AUGER REFUSAL **LIMESTONE**, slightly weathered, light gray, hard, closely jointed, fine to coarse grained			R-1	DB	87%	RQD 69%				
	18 CORING TERMINATED	10									
		15									

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

*Calibrated Hand Penetrometer

WATER LEVEL OBSERVATIONS, ft		
WL	▽	▼
WL	▽	▼
WL	N/E	

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BORING STARTED	10-17-05		
BORING COMPLETED	10-17-05		
RIG	Hoosier	FOREMAN	GT
LOGGED	SR	JOB #	57057364G

GENERAL NOTES

DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1-3/8" I.D., 2" O.D., unless otherwise noted	HS:	Hollow Stem Auger
ST:	Thin-Walled Tube - 2" O.D., unless otherwise noted	PA:	Power Auger
RS:	Ring Sampler - 2.42" I.D., 3" O.D., unless otherwise noted	HA:	Hand Auger
DB:	Diamond Bit Coring - 4", N, B	RB:	Rock Bit
BS:	Bulk Sample or Auger Sample	WB:	Wash Boring or Mud Rotary

The number of blows required to advance a standard 2-inch O.D. split-spoon sampler (SS) the last 12 inches of the total 18-inch penetration with a 140-pound hammer falling 30 inches is considered the "Standard Penetration" or "N-value".

WATER LEVEL MEASUREMENT SYMBOLS:

WL:	Water Level	WS:	While Sampling	N/E:	Not Encountered
WCI:	Wet Cave in	WD:	While Drilling		
DCI:	Dry Cave in	BCR:	Before Casing Removal		
AB:	After Boring	ACR:	After Casing Removal		

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels may not be possible with only short-term observations.

DESCRIPTIVE SOIL CLASSIFICATION: Soil classification is based on the Unified Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

CONSISTENCY OF FINE-GRAINED SOILS

Unconfined Compressive Strength, Qu, psf	Standard Penetration or N-value (SS) Blows/Ft.	Consistency
< 500	<2	Very Soft
500 – 1,000	2-3	Soft
1,001 – 2,000	4-7	Medium Stiff
2,001 – 4,000	8-15	Stiff
4,001 – 8,000	16-30	Very Stiff
8,000+	30+	Hard

RELATIVE DENSITY OF COARSE-GRAINED SOILS

Standard Penetration or N-value (SS) Blows/Ft.	Relative Density
0 – 3	Very Loose
4 – 9	Loose
10 – 29	Medium Dense
30 – 49	Dense
50+	Very Dense

RELATIVE PROPORTIONS OF SAND AND GRAVEL

Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	< 15
With	15 – 29
Modifier	> 30

GRAIN SIZE TERMINOLOGY

Major Component of Sample	Particle Size
Boulders	Over 12 in. (300mm)
Cobbles	12 in. to 3 in. (300mm to 75 mm)
Gravel	3 in. to #4 sieve (75mm to 4.75 mm)
Sand	#4 to #200 sieve (4.75mm to 0.075mm)
Silt or Clay	Passing #200 Sieve (0.075mm)

RELATIVE PROPORTIONS OF FINES

Descriptive Term(s) of other constituents	Percent of Dry Weight
Trace	< 5
With	5 – 12
Modifiers	> 12

PLASTICITY DESCRIPTION

Term	Plasticity Index
Non-plastic	0
Low	1-10
Medium	11-30
High	30+

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GENERAL NOTES

Sedimentary Rock Classification

DESCRIPTIVE ROCK CLASSIFICATION:

Sedimentary rocks are composed of cemented clay, silt and sand sized particles. The most common minerals are clay, quartz and calcite. Rock composed primarily of calcite is called limestone; rock of sand size grains is called sandstone, and rock of clay and silt size grains is called mudstone or claystone, siltstone, or shale. Modifiers such as shaly, sandy, dolomitic, calcareous, carbonaceous, etc. are used to describe various constituents. Examples: sandy shale; calcareous sandstone.

LIMESTONE	Light to dark colored, crystalline to fine-grained texture, composed of $CaCo_3$, reacts readily with HCl.
DOLOMITE	Light to dark colored, crystalline to fine-grained texture, composed of $CaMg(CO_3)_2$, harder than limestone, reacts with HCl when powdered.
CHERT	Light to dark colored, very fine-grained texture, composed of micro-crystalline quartz ($Si0_2$), brittle, breaks into angular fragments, will scratch glass.
SHALE	Very fine-grained texture, composed of consolidated silt or clay, bedded in thin layers. The unlaminated equivalent is frequently referred to as siltstone, claystone or mudstone.
SANDSTONE	Usually light colored, coarse to fine texture, composed of cemented sand size grains of quartz, feldspar, etc. Cement usually is silica but may be such minerals as calcite, iron-oxide, or some other carbonate.
CONGLOMERATE	Rounded rock fragments of variable mineralogy varying in size from near sand to boulder size but usually pebble to cobble size (½ inch to 6 inches). Cemented together with various cementing agents. Breccia is similar but composed of angular, fractured rock particles cemented together.

PHYSICAL PROPERTIES:

DEGREE OF WEATHERING

Slight	Slight decomposition of parent material on joints. May be color change.
Moderate	Some decomposition and color change throughout.
High	Rock highly decomposed, may be extremely broken.

HARDNESS AND DEGREE OF CEMENTATION

Limestone and Dolomite:

Hard	Difficult to scratch with knife.
Moderately Hard	Can be scratched easily with knife, cannot be scratched with fingernail.
Soft	Can be scratched with fingernail.

Shale, Siltstone and Claystone

Hard	Can be scratched easily with knife, cannot be scratched with fingernail.
Moderately Hard	Can be scratched with fingernail.
Soft	Can be easily dented but not molded with fingers.

Sandstone and Conglomerate

Well Cemented	Capable of scratching a knife blade.
Cemented	Can be scratched with knife.
Poorly Cemented	Can be broken apart easily with fingers.

BEDDING AND JOINT CHARACTERISTICS

Bed Thickness	Joint Spacing	Dimensions
Very Thick	Very Wide	> 10′
Thick	Wide	3′ - 10′
Medium	Moderately Close	1′ - 3′
Thin	Close	2″ - 1′
Very Thin	Very Close	.4″ - 2″
Laminated	—	.1″ - .4″

Bedding Plane	A plane dividing sedimentary rocks of the same or different lithology.
Joint	Fracture in rock, generally more or less vertical or transverse to bedding, along which no appreciable movement has occurred.
Seam	Generally applies to bedding plane with an unspecified degree of weathering.

SOLUTION AND VOID CONDITIONS

Solid	Contains no voids.
Vuggy (Pitted)	Rock having small solution pits or cavities up to ½ inch diameter, frequently with a mineral lining.
Porous	Containing numerous voids, pores, or other openings, which may or may not interconnect.
Cavernous	Containing cavities or caverns, sometimes quite large.

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UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests[A]					Soil Classification	
					Group Symbol	Group Name[B]
Coarse Grained Soils More than 50% retained on No. 200 sieve	Gravels More than 50% of coarse fraction retained on No. 4 sieve	Clean Gravels Less than 5% fines[C]	$Cu \geq 4$ and $1 \leq Cc \leq 3$[E]		GW	Well-graded gravel[F]
			$Cu < 4$ and/or $1 > Cc > 3$[E]		GP	Poorly graded gravel[F]
		Gravels with Fines More than 12% fines[C]	Fines classify as ML or MH		GM	Silty gravel[F,G,H]
			Fines classify as CL or CH		GC	Clayey gravel[F,G,H]
	Sands 50% or more of coarse fraction passes No. 4 sieve	Clean Sands Less than 5% fines[D]	$Cu \geq 6$ and $1 \leq Cc \leq 3$[E]		SW	Well-graded sand[I]
			$Cu < 6$ and/or $1 > Cc > 3$[E]		SP	Poorly graded sand[I]
		Sands with Fines More than 12% fines[D]	Fines classify as ML or MH		SM	Silty sand[G,H,I]
			Fines Classify as CL or CH		SC	Clayey sand[G,H,I]
Fine-Grained Soils 50% or more passes the No. 200 sieve	Silts and Clays Liquid limit less than 50	inorganic	PI > 7 and plots on or above "A" line[J]		CL	Lean clay[K,L,M]
			PI < 4 or plots below "A" line[J]		ML	Silt[K,L,M]
		organic	Liquid limit - oven dried / Liquid limit - not dried	< 0.75	OL	Organic clay[K,L,M,N] / Organic silt[K,L,M,O]
	Silts and Clays Liquid limit 50 or more	inorganic	PI plots on or above "A" line		CH	Fat clay[K,L,M]
			PI lots below "A" line		MH	Elastic Silt[K,L,M]
		organic	Liquid limit - oven dried / Liquid limit - not dried	< 0.75	OH	Organic clay[K,L,M,P] / Organic silt[K,L,M,Q]
Highly organic soils	Primarily organic matter, dark in color, and organic odor				PT	Peat

[A] Based on the material passing the 3-in. (75-mm) sieve

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

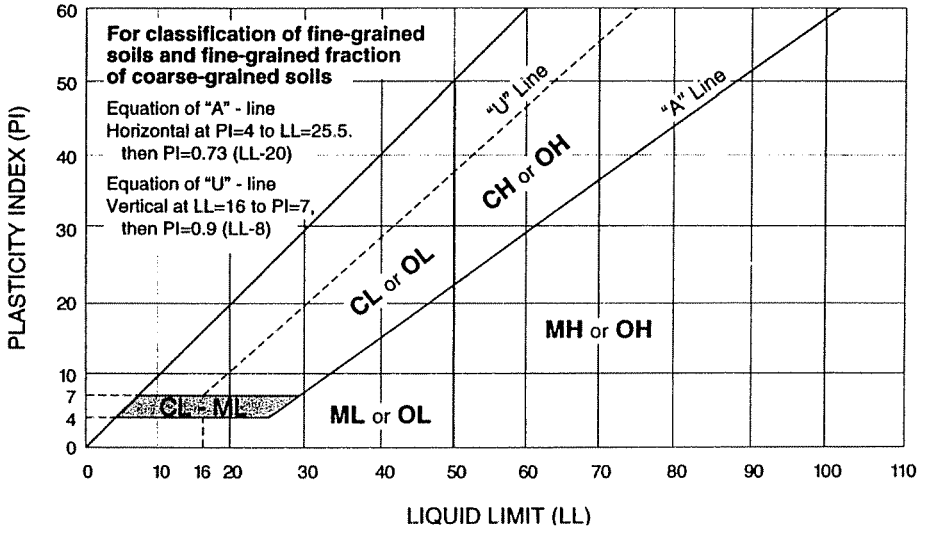
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.



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SHEET 1

S1/1 – VICINITY AND 500' STRUCTURAL MAP

S1/2 – ABUTTING PROPERTY OWNERS

S1/3 – U.S.G.S. QUAD MAP

SHEET 2

S2/1 – PROPOSED LEASE AREA

S2/2 – LEGAL DESCRIPTIONS

S2/3 – FLOOD ZONE DATA

COORDINATE POINT LOCATION

NAD 1983
LATITUDE: 36° 58' 26.″37
LONGITUDE: 84° 39' 10.″07
NAVD 1988
ELEVATION: 1057' AMSL
STATE PLANE COORDINATE SOUTH ZONE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 1875535.5747
EASTING: 1960930.2232

POWER POLE

UTILITY COMPANY: UNKNOWN
IDENTIFICATION #: N/A

SYMBOL LEGEND

- WOOD POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- GUY ANCHOR
- MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- F.P. FENCE POST
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

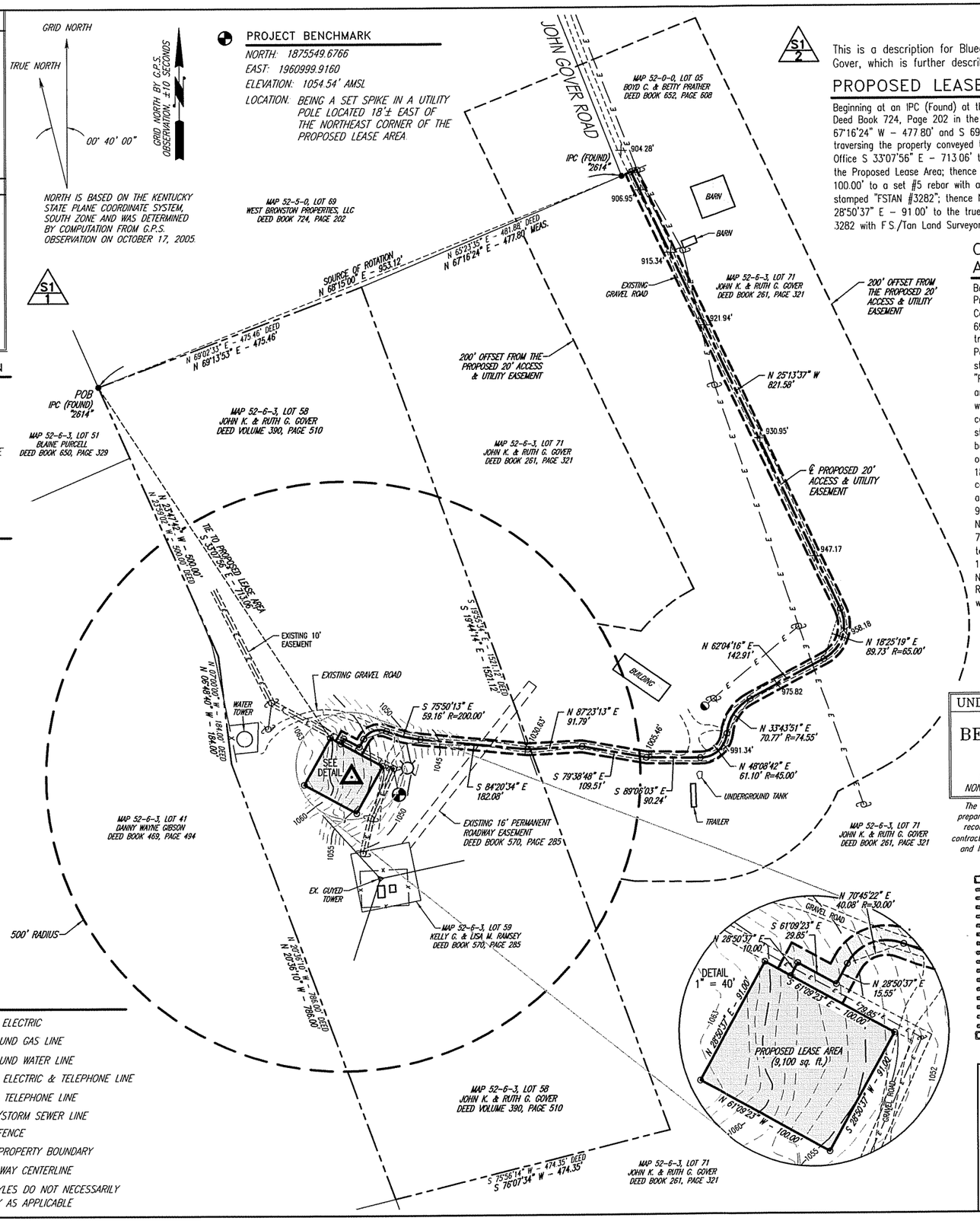
ABBREVIATIONS

EP	EDGE OF PAVEMENT
ROW	RIGHT OF WAY
℄	CENTERLINE
RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
℘	SUBJECT PROPERTY LINE
POB	POINT OF BEGINNING
IPC	IRON PIN CAPPED

LINE LEGEND

- E E E — OVERHEAD ELECTRIC
- G G G — UNDERGROUND GAS LINE
- W W W — UNDERGROUND WATER LINE
- E/T E/T E/T — OVERHEAD ELECTRIC & TELEPHONE LINE
- T T — OVERHEAD TELEPHONE LINE
- D D — DRAINAGE/STORM SEWER LINE
- X X X — EXISTING FENCE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE

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



LEGAL DESCRIPTIONS:

S1/2

This is a description for Bluegrass Cellular, of an area to be leased from the property of John K. and Ruth G. Gover, which is further described as follows:

PROPOSED LEASE AREA

Beginning at an IPC (Found) at the Southwest corner of the property conveyed to West Bronston Properties, LLC as recorded in Deed Book 724, Page 202 in the Office of the Clerk of the County Court of Wayne County, Kentucky, said point being S 67°16'24" W – 477.80' and S 69°13'53" W – 475.46' from an IPC (Found) at the Southeast Corner of said property; thence traversing the property conveyed to John K and Ruth G Gover as recorded in Deed Book 390, Page 510 in the aforesaid Clerks Office S 33°07'56" E – 713.06' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Proposed Lease Area; thence S 61°09'23" E passing a set #5 rebar with a cap stamped "FSTAN #3282" at 20.15', in all 100.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 28°50'37" W – 91.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 61°09'23" W – 100.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 28°50'37" E – 91.00' to the true point of beginning containing 9100 square feet as per survey by Frank L. Sellinger, II, PLS No. 3282 with F.S./Tan Land Surveyors and Consulting Engineers dated November 8, 2005.

CENTERLINE OF PROPOSED 20' ACCESS & UTILITY EASEMENT

Beginning at an IPC (Found) at the Southwest corner of the property conveyed to West Bronston Properties, LLC as recorded in Deed Book 724, Page 202 in the Office of the Clerk of the County Court of Wayne County, Kentucky, said point being S 67°16'24" W – 477.80' and S 69°13'53" W – 475.46' from an IPC (Found) at the Southeast Corner of said property; thence traversing the property conveyed to John K. and Ruth G. Gover as recorded in Deed Book 390, Page 510 in the aforesaid Clerks Office S 33°07'56" E – 713.06' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 61°09'23" E – 20.15' to a set #5 rebar with a cap stamped "FSTAN #3282" and the TRUE POINT OF BEGINNING of the Centerline of the Proposed 20' Access and Utility Easement; thence following said centerline N 28°50'37" E – 10.00' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence S 61°09'23" E – 29.85' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence N 28°50'37" E – 15.55' to a set #5 rebar with a cap stamped "FSTAN #3282"; thence with a curve to the right having a radius of 30.00', chord bearing N 70°45'22" E – 40.08' to a set Spike; thence with a curve to the left having a radius of 200.00', chord bearing S 75°50'13" E – 59.16' to a set Spike; thence S 84°20'34" E – 182.08' to a set Spike; thence N 87°23'13" E – 91.79' to a set Spike on the property conveyed to John K. and Ruth G. Gover as recorded in Deed Book 261, Page 321 in the aforesaid Clerks Office; thence S 79°38'48" E – 109.51' to a set Spike; thence S 89°08'03" E – 90.24' to a set Spike; thence with a curve to the left having a radius of 45.00', chord bearing N 48°08'42" E – 61.10' to a set Spike; thence with a curve to the right having a radius of 74.55', chord bearing N 33°43'51" E – 70.77' to a set Spike; thence N 62°04'16" E – 142.91' to a set Spike; thence with a curve to the left having a radius of 65.00', chord bearing N 18°25'19" W – 89.73' to a set Spike; thence N 25°13'37" W – 821.58' to a set Spike on the Northwest line of said Gover property (Deed Book 261, Page 321) at the end of John Gover Road, which is the end of said easement as per survey by Frank L. Sellinger, II, PLS No. 3282 with F.S./Tan Land Surveyors and Consulting Engineers dated November 8, 2005.

0' 100' 200' 400'

(IN FEET)
SCALE: 1" = 100'

UNDERGROUND UTILITIES

CALL 2 WORKING DAYS
BEFORE YOU DIG
INDIANA 1-800-382-5544
KENTUCKY 1-800-752-6007
UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST CALL DIRECTLY

The utility information shown on this plat, prepared by FSTAN was obtained from existing records and or by field locations. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations

SURVEYORS NOTES

SOURCE OF BEARING IS A G.P.S. OBSERVATION ON OCTOBER 17, 2005.

SOURCE OF ROTATION BASED ON THE SOUTH PROPERTY LINE OF THE WEST BRONSTON PROPERTIES, LLC PROPERTY WHICH HAS THE BEARING OF N 68°15'00" E

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

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.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.

LAND SURVEYOR'S CERTIFICATE

STATE OF KENTUCKY
FRANK L. SELLINGER #3282
LICENSED PROFESSIONAL LAND SURVEYOR

TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 10,000.

TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED
I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.
This survey and plat meets or exceeds the minimum standards of the governing authorities.
This property is subject to any recorded easements or right of ways not shown, hereon.

11-8-05
Frank L. Sellinger, II Ky. Reg. No. 3282

"CELLULAR COMMUNICATION TOWER SITE SURVEY"
REFERENCED AS "EXHIBIT B"

OWNER APPROVAL: _____ DATE: _____

BLUEGRASS CELLULAR APPROVAL: _____ DATE: _____

S1/3 I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 210197 0200 B, DATED 07-16-90 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE "X".

BLUEGRASS CELLULAR

2902 RING ROAD
ELIZABETHTOWN, KY 42702

F.S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers
PO Box 17546 2313/2315 Crittenden Drive
Louisville, KY 40217
Phone: (502) 635-5866 (502) 635-5111
Fax: (502) 636-5263

SITE NUMBER:

SITE NAME: BRONSTON

SITE ADDRESS: 680 JOHN GOVER LANE BRONSTON, KY 42518

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

PROPERTY OWNER: JOHN K. & RUTH G. GOVER 539 JOHN GOVER LANE BRONSTON, KY 42518

MAP NUMBER: 52-6-3

PARCEL NUMBER: 58

SOURCE OF TITLE: DEED BOOK 390, PAGE 510

DWG BY:	CHKD BY:	DATE:
JMW	FSII	11.08.05

FSTAN PROJECT NO.: 05-3597

SHEET 2 OF 2

REVISIONS:

C2

BLUEGRASS CELLULAR

PROJECT NAME: BRONSTON
PROJECT NUMBER: BG-043
SITE ADDRESS: 680 JOHN GOVER LN.
BRONSTON, KY. 42518
COUNTY: PULASKI

APPROVAL SIGNATURES

BLUEGRASS CELLULAR
CONSTRUCTION SUPERVISOR: _____
DATE: _____

CITY REPRESENTATIVE: _____
TITLE: _____
DATE: _____

PROPERTY OWNER/OWNERS: _____
_____
DATE: _____

TOWER OWNER/OWNERS: _____
_____
DATE: _____

SHEET INDEX

SHEET NO.	DESCRIPTION	REVISION
TITLE SHEET	TITLE SHEET	
SITE SURVEY	SITE SURVEY	
GENERAL NOTES	GENERAL NOTES	
ANTENNA NOTES	ANTENNA NOTES	
ANTENNA DETAILS	ANTENNA DETAILS	
GENERATOR DTLS.	GENERATOR DTLS.	
S1.1	FOUNDATION DETAILS	
A1.0	OVERALL SITE PLAN	
A1.1	SITE PLAN	
A1.2	SITE ELEVATION	
A1.3	BUILDING ELEVATIONS	
A2.1	FENCE DETAILS	
E1.1	SITE PLAN - ELECTRICAL	
E1.2	ELECTRICAL DETAILS	
LYNCOLE	GROUNDING DESIGN	
E2.1	ELEC. PLAN - GROUNDING	
E2.2	GROUNDING DETAILS	

TOWER LATITUDE & LONGITUDE

N 36* 58' 26.37" W 84* 39' 10.07"

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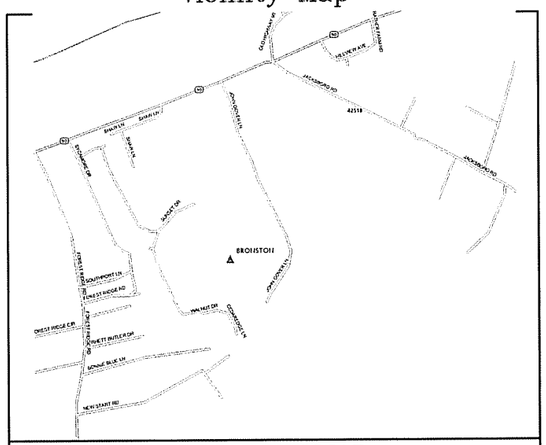
PO Box 17546 2313/2315 Crittenden Drive
Louisville, KY 40217
Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-5263

DESIGNED BY

RB DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY 40291
[502] 599-9427 Fax [502] 231-3656

BLUEGRASS CELLULAR
2902 RING ROAD. ELIZABETHTOWN, KY. 42702
PHONE: (270) 769-0339

Vicinity Map



VICINITY MAP
NOT TO SCALE

DIRECTIONS TO SITE

FROM ELIZABETHTOWN, KY PROCEED SOUTH ON I-65 TO EXIT #43 , WHICH IS CUMBERLAND PARKWAY. PROCEED EAST ON THE CUMBERLAND PARKWAY INTO SOMERSET, KY. AND GO SOUTH ON HWY. 27. TRAVEL SOUTH ON HWY. 27 UNTIL YOU SEE THE KY. HWY 90 JUNCTION. TAKE A RIGHT HWY. 90 OR TRAVEL WEST. AFTER CROSSING THE RIVER ON THE NEW 4 LANE BRIDGE, WATCH FOR A STREET ON THE LEFT HAND SIDE CALLED JOHN GOVER LANE. THERE WILL ALSO BE AN EXISTING GUYED TOWER AT THE END OF THIS ROAD. TURN LEFT ONTO JOHN GOVER LANE AND FOLLOW THE GRAVEL ROAD ALL THE WAY BACK TO THE TOP OF THE HILL. TRAVEL PAST AN EXISTING RESIDENTIAL HOUSE AND WATCH FOR THE TOWER SITE ON THE LEFT. THIS IS ALSO A DEADEND ROAD.

SITE DATA

PROPERTY OWNER:	JOHN & RUTH GOVER
TOWER OWNER:	BLUEGRASS CELLULAR (270) 769-0339
POWER COMPANY:	SOUTH KY. RECC (606) 678-4121
TELEPHONE COMPANY:	VERIZON (800) 595-3400
BLUEGRASS CONSTRUCTION SUPERVISOR:	LEE HILL (270)734-1028

SHEET 1

S1/1 – VICINITY AND 500' STRUCTURAL MAP

S1/2 – ABUTTING PROPERTY OWNERS

S1/3 – U.S.G.S. QUAD MAP

SHEET 2

S2/1 – PROPOSED LEASE AREA

S2/2 – LEGAL DESCRIPTIONS

S2/3 – FLOOD ZONE DATA

COORDINATE POINT LOCATION

NAD 1983
LATITUDE: 36° 58' 26."37
LONGITUDE: 84° 39' 10."07
NAVD 1988
ELEVATION: 1057' AMSL
STATE PLANE COORDINATE SOUTH ZONE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 1875535.5747
EASTING: 1960930.2232

POWER POLE

UTILITY COMPANY: UNKNOWN
IDENTIFICATION #: N/A

SYMBOL LEGEND

- WOOD POWER POLE
- LIGHT POLE
- TELEPHONE PEDESTAL
- GUY ANCHOR
- MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- F.P. FENCE POST
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

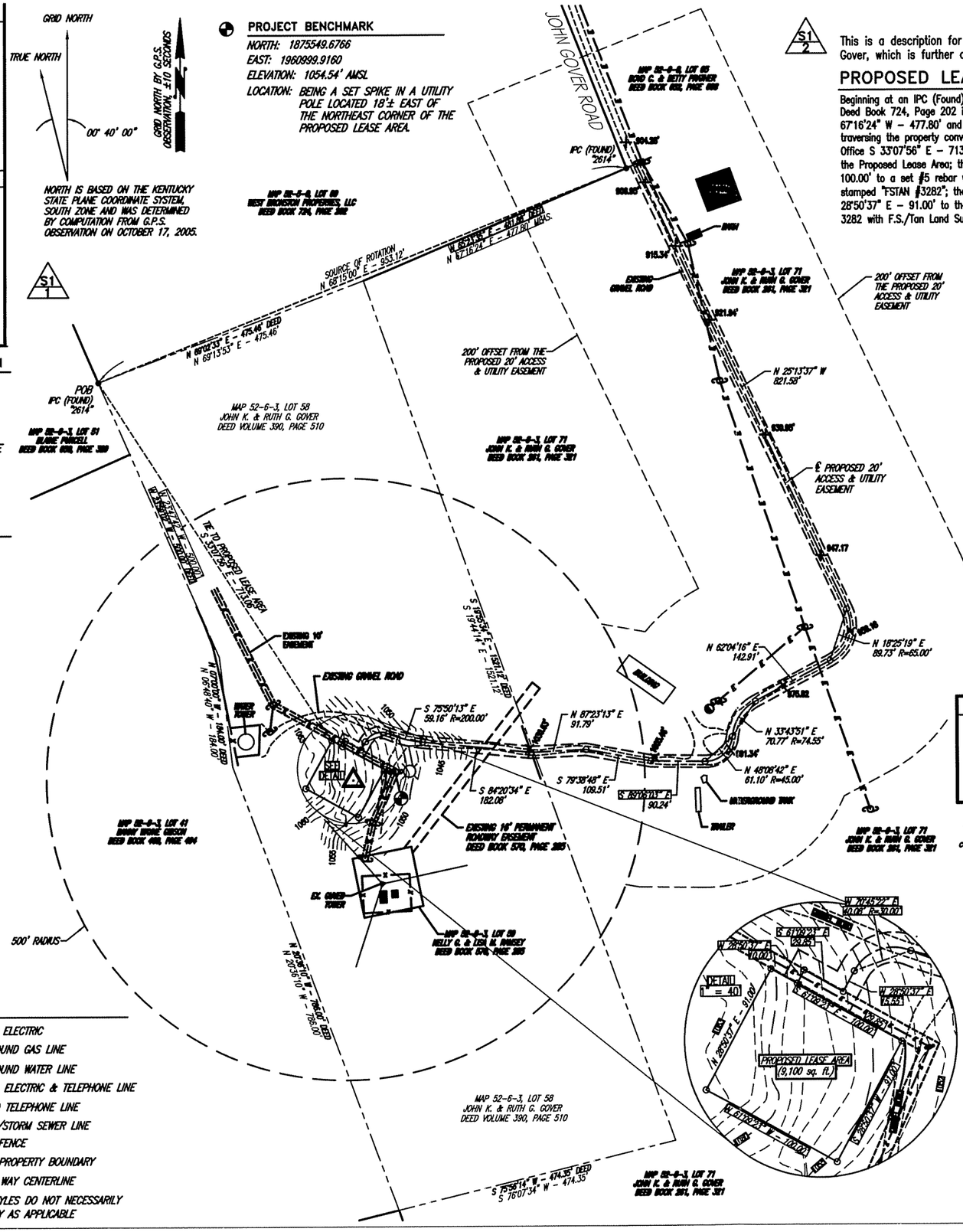
ABBREVIATIONS

EP	EDGE OF PAVEMENT
ROW	RIGHT OF WAY
℄	CENTERLINE
RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE
CMP	CORRUGATED METAL PIPE
℘	SUBJECT PROPERTY LINE
POB	POINT OF BEGINNING
IPC	IRON PIN CAPPED

LINE LEGEND

- E E E — OVERHEAD ELECTRIC
- G G G — UNDERGROUND GAS LINE
- W W W — UNDERGROUND WATER LINE
- E/T E/T E/T — OVERHEAD ELECTRIC & TELEPHONE LINE
- T T — OVERHEAD TELEPHONE LINE
- D D — DRAINAGE/STORM SEWER LINE
- X X X — EXISTING FENCE
- ——— SUBJECT PROPERTY BOUNDARY
- ——— RIGHT OF WAY CENTERLINE

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



LEGAL DESCRIPTIONS:

S1/2

This is a description for Bluegrass Cellular, of an area to be leased from the property of John K. and Ruth G. Gover, which is further described as follows:

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LAND SURVEYOR'S CERTIFICATE

TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 10,000.

TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED
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Frank L. Sellinger, II — Ky. Reg. No. 3282

"CELLULAR COMMUNICATION TOWER SITE SURVEY"
REFERENCED AS "EXHIBIT B"

OWNER APPROVAL: _____ DATE: _____

BLUEGRASS CELLULAR APPROVAL: _____ DATE: _____

S1/3 I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 210197 0200 B, DATED 07-16-90 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE "X".

BLUEGRASS CELLULAR
2902 RING ROAD
ELIZABETHTOWN, KY 42702

FSTan
F.S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers
PO Box 17848 2313/2315 Crittenden Drive
Louisville, KY 40217
Phone: (502) 635-5666 (502) 636-5111
Fax: (502) 636-5253

SITE NUMBER:

SITE NAME: BRONSTON

SITE ADDRESS: 680 JOHN GOVER LANE BRONSTON, KY 42518

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

PROPERTY OWNER: JOHN K. & RUTH G. GOVER 539 JOHN GOVER LANE BRONSTON, KY 42518

MAP NUMBER: 52-6-3

PARCEL NUMBER: 58

SOURCE OF TITLE: DEED BOOK 390, PAGE 510

DWG BY:	CHKD BY:	DATE:
JMW	FSII	11.08.05

FSTAN PROJECT NO.: 05-3597

SHEET 2 OF 2

REVISIONS:

C2

CONCRETE GENERAL NOTES:

1. ALL CONCRETE SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI-301.

2. CAST-IN-PLACE CONCRETE:
THE PROPORTIONING OF MATERIAL SHALL BE BASED ON THE REQUIREMENTS FOR A PLASTIC AND WORKABLE MIX WITH THE USE OF NOT LESS THAN SIX (6) SACKS OF CEMENT PER CUBIC YARD PRODUCING CONCRETE WITH A 28-DAY DEVELOPED COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 POUNDS PER SQUARE INCH.

3. CONCRETE PROTECTION:
A. CONCRETE POURED AGAINST EARTH. . . . . 3 INCHES
B. ALL CONCRETE PLACED IN FORMS . . . . . 1-1/2 INCHES

4. DETAILS, FABRICATION, AND PLACING OF REINFORCING SHALL CONFORM TO APPLICABLE PROVISIONS OF ACI 315 AND ACI 318.

5. REINFORCING STEEL:
STIRRUPS AND TIES . . . . . .ASTM A 615 GRADE 40
ALL OTHER REINFORCING . . . . . .ASTM A 615 GRADE 60
WELDED WIRE FABRIC . . . . . ASTM A 185

6. FILL SHALL BE 90% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-D-698 (STANDARD PROCTOR)(U.N.O.).

7. SOILS REPORT BY TERRACON AND TESTING, INC., GEOTECHNICAL REPORT; BORE HOLE LOCATIONS; AND FINDINGS OF SUBSURFACE MATERIALS. COPIES OF THE REPORT MAY BE OBTAINED FROM ARCHITECT.
A. SWITCHGEAR BUILDING FOUNDATION:
(a) SOIL BEARING PRESSURE. . . . . 1,500 PSF
B. TOWER FOUNDATION:
(a) ROCK SOCKET DESIGN PARAMETERS:
(1) END BEARING PRESSURE . . . . . 24,000 PSF
(c) SIDE FRICTION. . . . . 8,000 PSF

8. STRUCTURAL STEEL:
ALL ROLLED STEEL PLATES, SHAPES, BARS, AND MISCELLANEOUS ITEMS SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A36 (MINIMUM YIELD 36,000 PSI).

9. CONCRETE SEALER:
1. EUCO-GUARD 100 BY "THE EUCLID CHEMICAL CO."
2. MASTERSEAL SL BY "MASTER BUILDERS".

10. CONFIRM ANCHOR BOLT LOCATIONS WITH TOWER MANUFACTURER.

GENERAL NOTES:

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

2) THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND REVIEWING EXISTING STRUCTORS 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 TO VERIFY WITH OWNER THAT FAA APPROVAL HAS BEEN RECEIVED BEFORE STACKING OF TOWER.

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

10) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS, WORK TO BE DONE IN COMPLIANCE WITH OSHA RULES AND REGULATIONS.

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 RESPONSIBLE FOR ANY SEED AND STRAW NECESSARY TO 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 EXPIENCE.

GRADING & EXCAVATING NOTES:

1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER CONSTRUCTION SCHEDULE TO AVOID ANY INTERRUPTIONS TO PROPERTY OWNERS OPERATIONS.

2) CONTRACTOR TO ENSURE POSITIVE DRAINAGE DURING AND AFTER CONSTRUCTION IS COMPLETE.

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

4) 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 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.

5) BACK FILLING:
- EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLODS OVER 2 1/2" MAXIMUM SIZE.
- SHALL BE PLACED IN LAYERS OF 6" AND COMPACTED TO A 95% STANDARD PROCTOR, USE A 90% STANDARD 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 ENGINEER PRIOR TO FILL BEING ADDED.

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

7) AFTER COMPLETION OF BELOW GRADE EXCAVATING, AREA TO BE CLEANED AND CLEARED OF ANY UNSUITABLE MATERIAL SUCH AS, TRASH, DEBRIS, VEGETATION AND SO FORTH COMPLETE.

8) 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.

9) 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 CONTACT OWNER & ENGINEER FOR RECOMMENDATIONS.

10) 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 CONTACT ENGINEER FOR RECOMMENDATIONS.

SYMBOLS LEGEND

- KEYNOTE
- INSPEC. SLEEVE / GRND ROD
- INSPECTION SLEEVE
- CAD WELD CONNECTION
- T — TRANSFORMER
- LA — 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

* INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, GENERATOR PAD.

* INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.

* EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.

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

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

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

* GC WILL BE RESPONSIBLE FOR OFF LOADING AND STACKING OF TOWER WHEN APPLICABLE.

* GC WILL BE RESPONSIBLE FOR MOUNTING ALL LINES AND ANTENNAS.

* GC WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ICE BRIDGE.

* GC WILL BE RESPONSIBLE FOR SCHEDULING PROPANE TANK DELIVERY AND HOOK-UP.

* GC WILL BE RESPONSIBLE FOR CLEANING THE INSIDE OF BUILDING BEFORE I HAND SITE OVER TO OPERATIONS DEPARTMENT. THIS WILL INCLUDE SUPPLYING TRASHCAN, TRASH BAGS, BROOM, AND DOORMAT FOR BUILDING.

* GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND PAYING NECESSARY FEES REQUIRED.

* ALL WAREHOUSE MATERIAL (LINES, ANTENNAS, MOUNTING HARDWARE, GENERATOR, TOWER FOUNDATION KIT, ETC.) WILL NEED TO BE PICKED UP BY GC.

* ALL ALARMS WILL NEED TO BE HOOKED UP BY GC, THIS IS TO INCLUDE: GENERATOR ALARM AND TOWER LIGHT ALARM. (TO BLUEGRASS CELLULAR INC. ALARM BLOCK)

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

* 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.)

* GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCING.

* ALL TRASH AND DEBRIS TO BE REMOVED BY GC

* ALL BIDS ARE TO BE BROKE DOWN AS FOLLOWS:
  * EXCAVATING, ROAD, SITE WORK, ETC.
  * TOWER FOUNDATION
  * TOWER ERECTION
  * LINES AND ANTENNAS
  * ALL FOUNDATION SLABS
  * ELECTRICAL AND GROUNDING
  * FENCING
  * ICE BRIDGE

* GC TO SEPERATE ALL MATERIALS & LABOR IN BID.

NOTE: THIS SCOPE OF WORK IS A BASIC OUTLINE FOR THE GENERAL CONTRACTOR TO FOLLOW AND DOES NOT EXCLUDE OTHER DUTIES ASSOCIATED WITH THE GENERAL CONTRACTORS RESPONSIBILITIES TO COMPLETE THE CELLULAR SITE. IT IS RECOMMENDED THAT THE SPECIFICATIONS MANUAL BE READ PRIOR TO CONSTRUCTION.

A&E DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY. 40291
[502]239-3942 Fax[502]231-3696

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

SHEET NUMBER
General Notes

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 MANAGER.

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 SUPPLY & INSTALL GPS BRACKET & CABLING

ANTENNA SPECS

	TYPE	SIZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	DAPA 59210	L=70.3" W=6.3" D=2.7"	6	40*, 150*, 260*	240'-0" C/L
ANTENNA (SECONDARY)					

ANTENNA MOUNTING HARDWARE SPECS

	TYPE	SIZE	NUMBER	MOUNTING HEIGHT
MOUNT (PRIMARY)	TRI-SECTOR MOUNT		3	VERIFY WITH PROJECT MANAGER
MOUNT (SECONDARY)				

ANTENNA TRANSMISSION LINES SPECS

	TYPE	SIZE	NUMBER	LENGTH
TRANSMISSION LINE (PRIMARY)	ANDREW	1-5/8"	6	FIELD VERIFY
TRANSMISSION LINE (SECONDARY)				

DISH SPECS

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

DISH MOUNT SPECS

	TYPE	SIZE	NUMBER	MOUNTING HEIGHT
MOUNT #1				
MOUNT #2				

DISH TRANSMISSION LINES

	TYPE	SIZE	NUMBER	LENGTH
TRANSMISSION LINE #1				
TRANSMISSION LINE #2				

ANTENNA SYNOPSIS

* ANTENNAS TO HAVE A 2* ELECTRICAL DOWNTILT
* ANTENNA FREQUENCY 1975.00 – 1982.50

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(502) 599-8427 Fax (502) 231-3656

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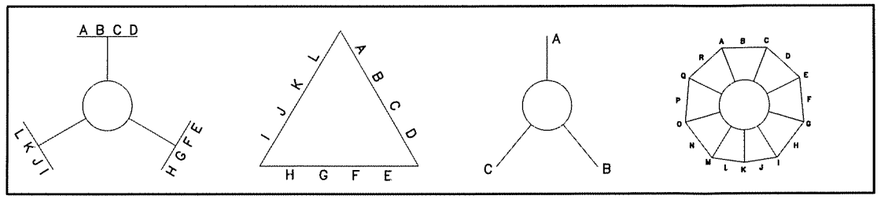
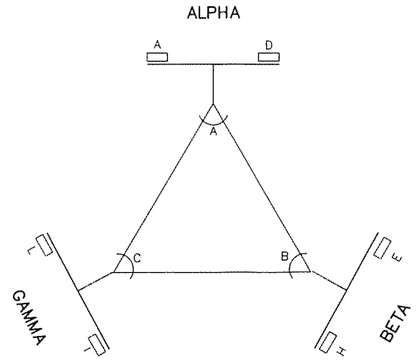
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

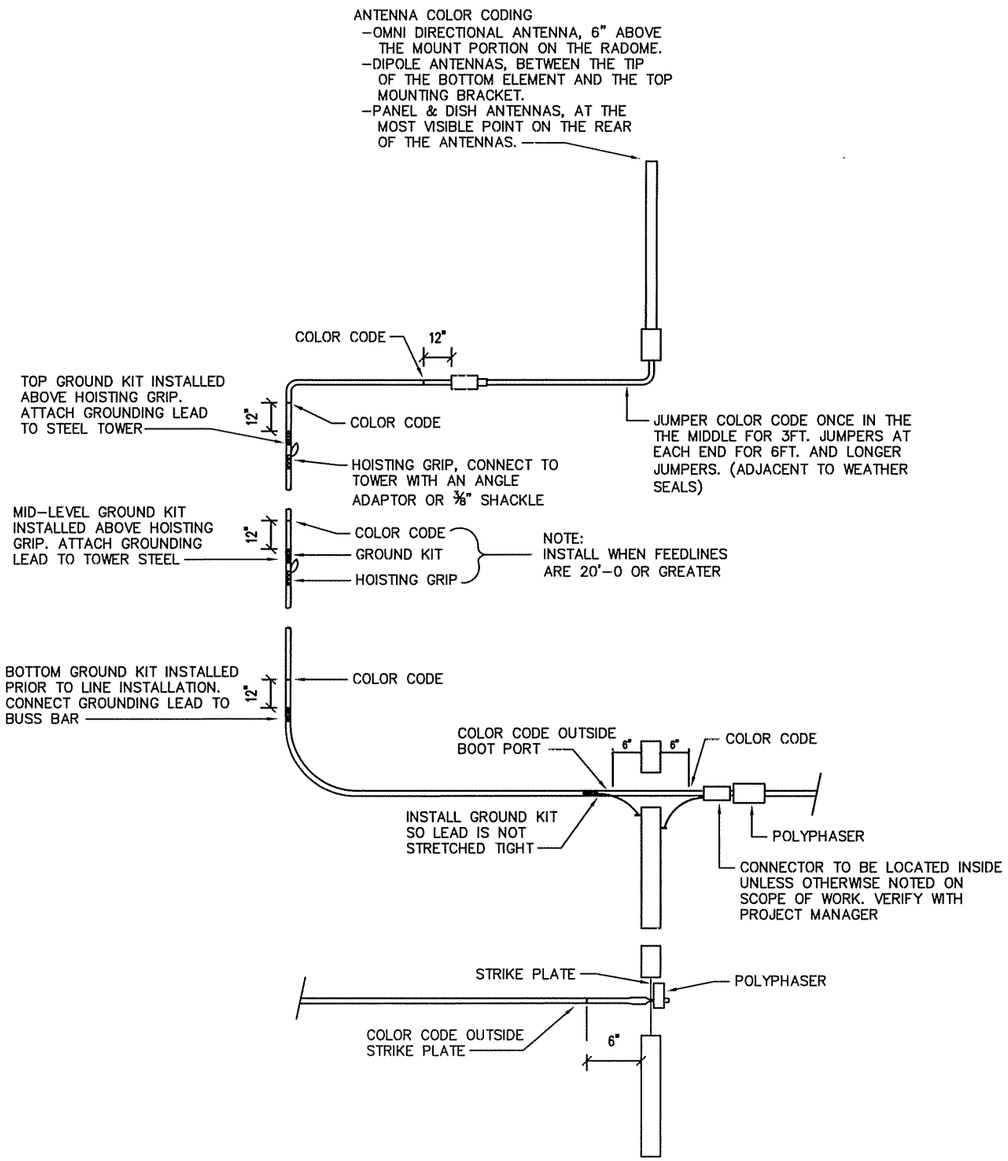
SHEET NUMBER
ANT. NOTES

ANTENNA CONFIGURATION DETAIL (LETTER DENOTES ANTENNA LOCATION)





TRI-SECTOR ANTENNA DIAGRAM
NO SCALE



COLOR CODING DETAIL
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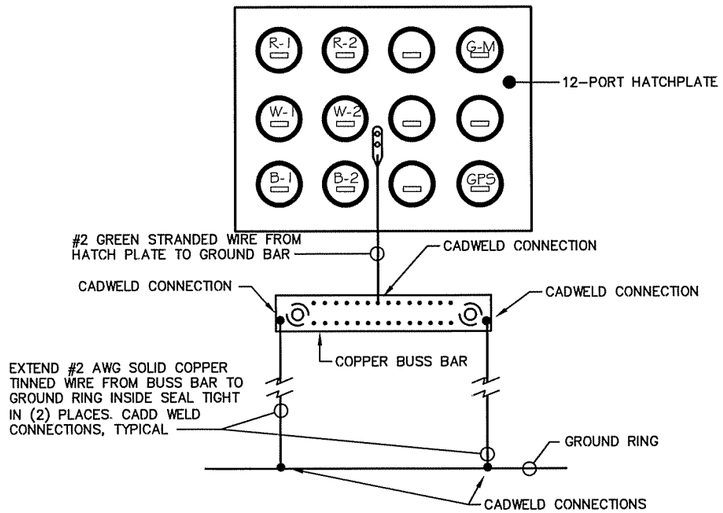

BOOT PORT GROUNDING DETAIL
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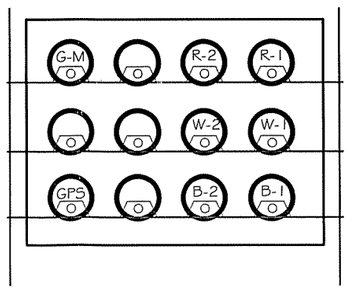

COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELTER)
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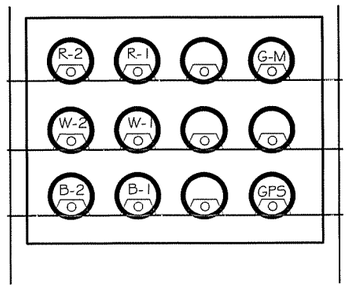

COAX ENTRY DETAIL A/C SIDE (VIEW FROM INSIDE SHELTER)
NO SCALE

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(502) 599-9427 Fax (502) 231-1856

NO.	DATE	REVISION

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STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
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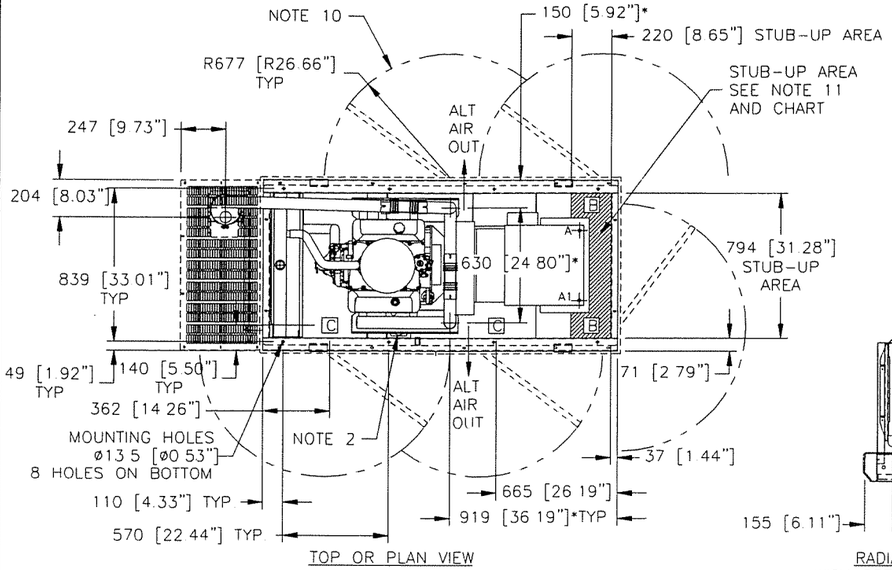
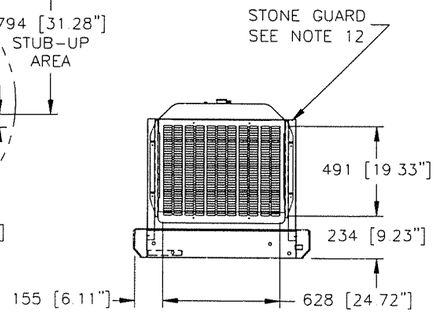
SHEET NUMBER
ANTENNA/LINES DETAILS



TOP OR PLAN VIEW



RADIATOR END VIEW WITH OPTIONAL STONE GUARD

RECOMMENDED FUEL/ELECTRICAL STUB-UPS (SEE TOP VIEW)

DESCRIPTION		INSIDE BASE
AC LOAD LEAD CONDUIT	(RIGHT)	A
	(LEFT)	A1
120/240V AC FOR OPT. BATTERY CHARGER, OPT. BATTERY HEATER, AND BLOCK HEATER		B
INSIDE STUB-UP FOR FUEL CONNECTIONS		C

NOTE:
FUEL SYSTEM SET UP WITH OUTSIDE STUB UPS (SEE LEFT SIDE VIEW). SMALL FUEL SYSTEM MODIFICATIONS REQUIRED FOR INSIDE STUB-UPS

WEIGHT DATA
UNIT: 729.7 kg [1609 lbs]
STEEL COMPARTMENT: 208.6 kg [460 lbs]

UNITS: mm [INCHES]

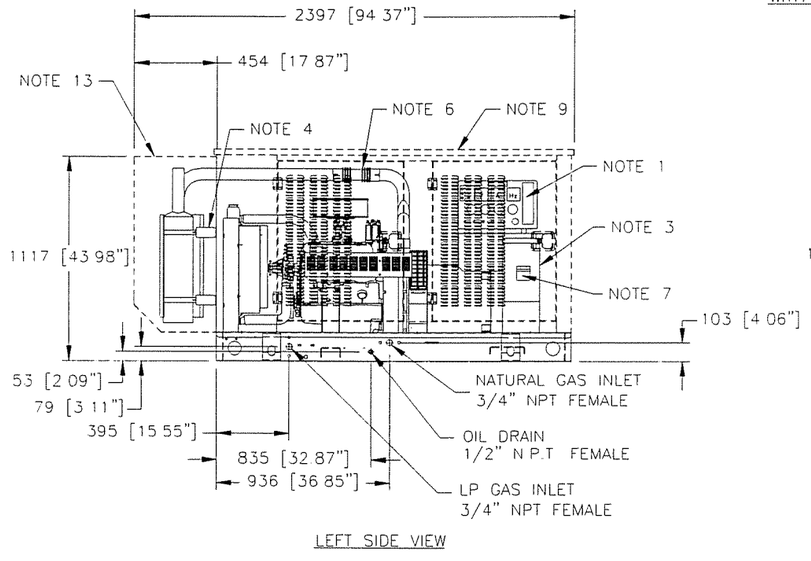
ENGINE SERVICE CONNECTIONS

INLET LP 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, 2.5" OD MUFFLER OUTLET WITH ENCLOSURE

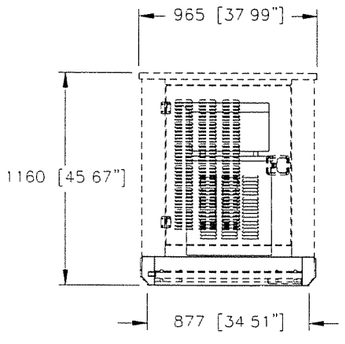
NOTES:

1. CONTROL PANEL MAY BE ROTATED 180° IN EITHER DIRECTION.
2. STANDARD BLOCK HEATER REQUIRES 120V AC CONNECTION (ALSO OPTIONAL BATTERY CHARGER, & BATTERY HEATER).
3. CONNECTION POINTS FOR AC LOAD LEADS AND ENGINE AUTOMATIC START/STOP CONTROL WIRES PROVIDED IN AC CONNECTION PANEL.
4. EXHAUST MUFFLER SUPPORT BRACKETS SUPPLIED WITH OPTIONAL COMPARTMENT.
5. 12 VOLT NEGATIVE GROUND SYSTEM
   BATTERY TRAY INSIDE DIMENSIONS: 178 X 342.5 [7" X 13.5"]
6. 2.5" I.D. FLEX EXHAUST, STANDARD WITH COMPARTMENT UNITS, OPTIONAL WITHOUT.
7. MAIN LINE CIRCUIT BREAKER.
8. REMOVABLE BLANK PANEL FOR OPTIONAL 2nd MAIN LINE CIRCUIT BREAKER.
9. OPTIONAL COMPARTMENT.
10. DOORS MUST BE OPENED 90 DEG. TO BE REMOVED.
11. A OR A1 MAY BE USED DEPENDING ON CIRCUIT BREAKER LOCATION.
12. STONE GUARDS AND AIR DUCT ADAPTER ARE OPTIONS AND CAN BE ORDERED FOR UNITS WITHOUT ENCLOSURES ONLY.
13. SEE DRAWING C3850 FOR DUCT REMOVAL. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.

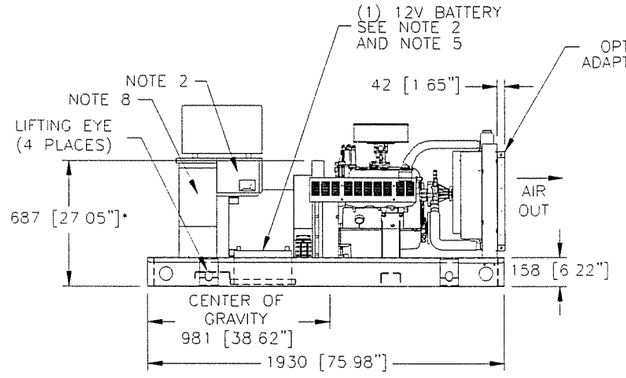
*DIMENSIONS ARE TO THE CENTER OF OUTLETS ON EXHAUST MANIFOLDS. DIMENSIONS SHOULD BE USED AS A REFERENCE WHEN EXHAUST SYSTEM IS NOT ORDERED. APPLIES TO OPEN SET ONLY.



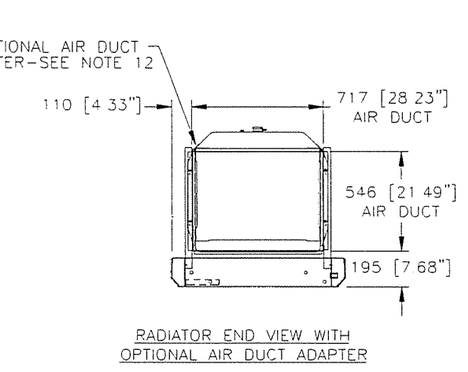
LEFT SIDE VIEW



REAR VIEW



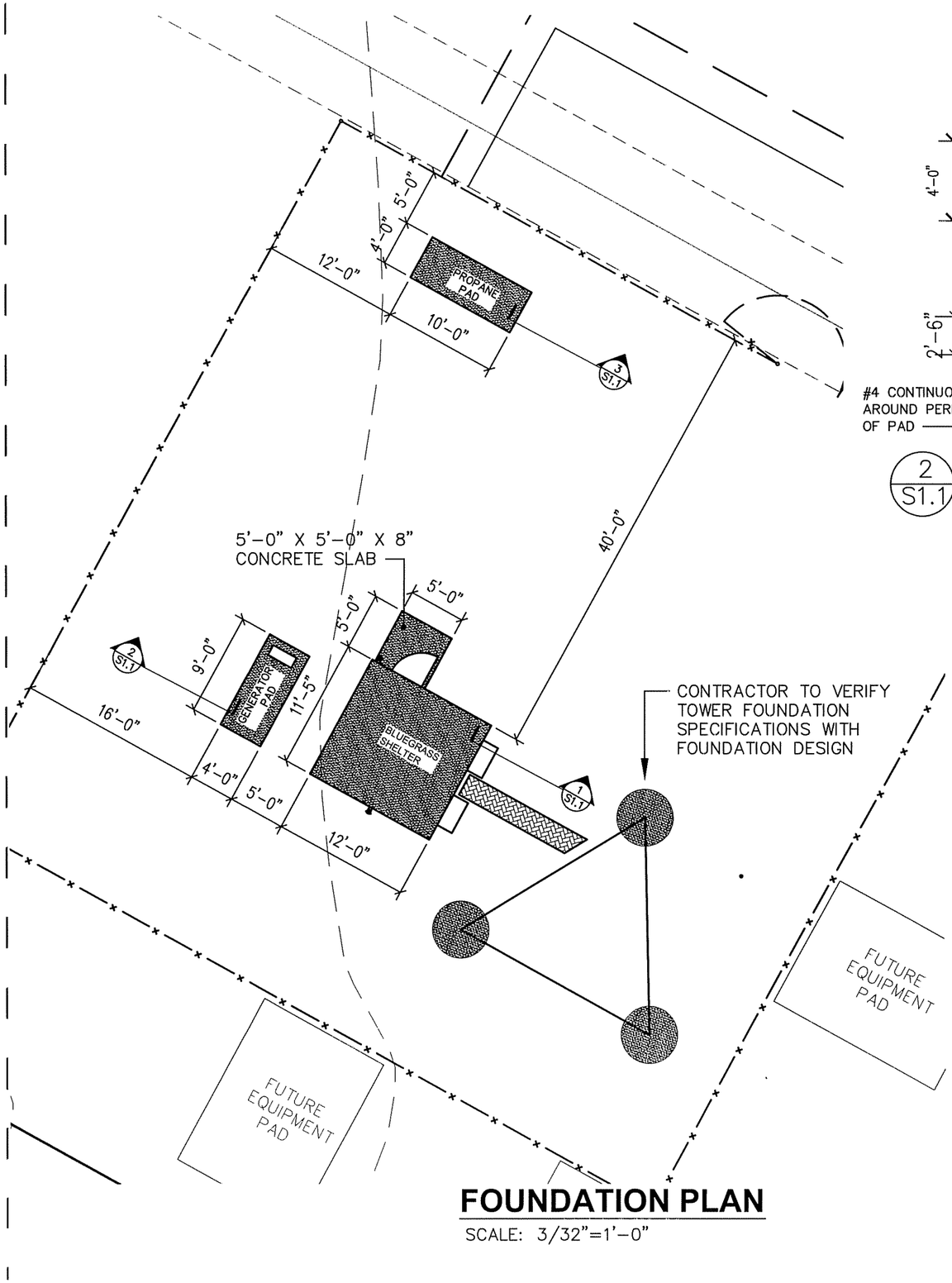
RIGHT SIDE VIEW



RADIATOR END VIEW WITH OPTIONAL AIR DUCT ADAPTER

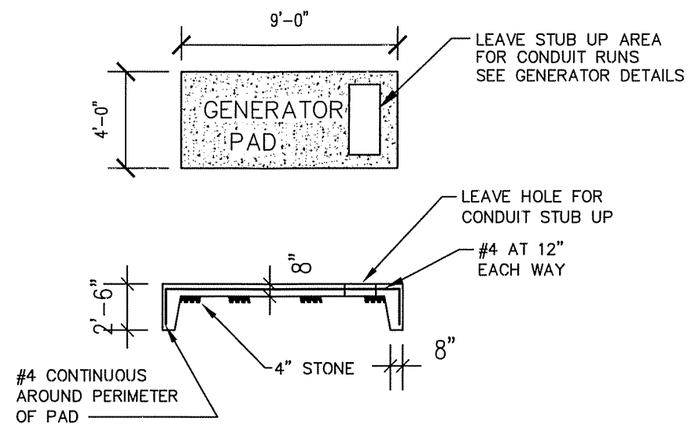
GENERAC®
INSTALLATION DRAWING

INSTALLATION DRAWING # C4505 REV -
SG035 & SG045
4.3 LITER SPARK-IGNITED ENGINE
NATURALLY ASPIRATED
ISSUE DATE 10/11/99



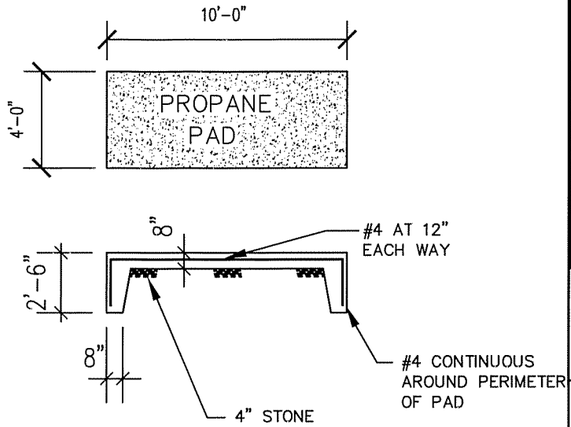
FOUNDATION PLAN

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



2 / S1.1 **FOUNDATION PLAN**

NO SCALE



3 / S1.1 **FOUNDATION PLAN**

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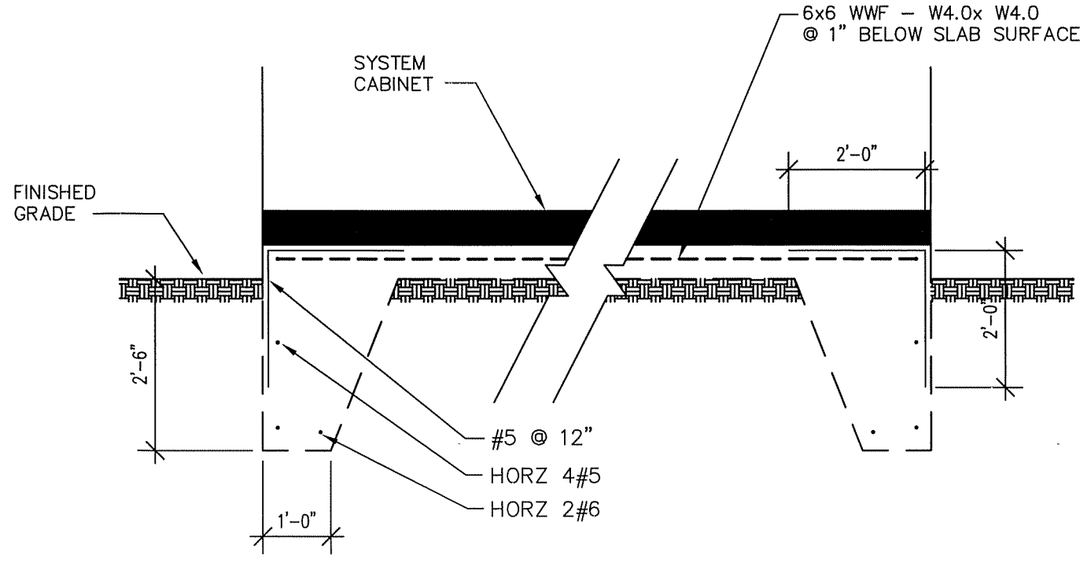

1 / S1.1 **FOUNDATION PLAN**

NO SCALE

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REVISION

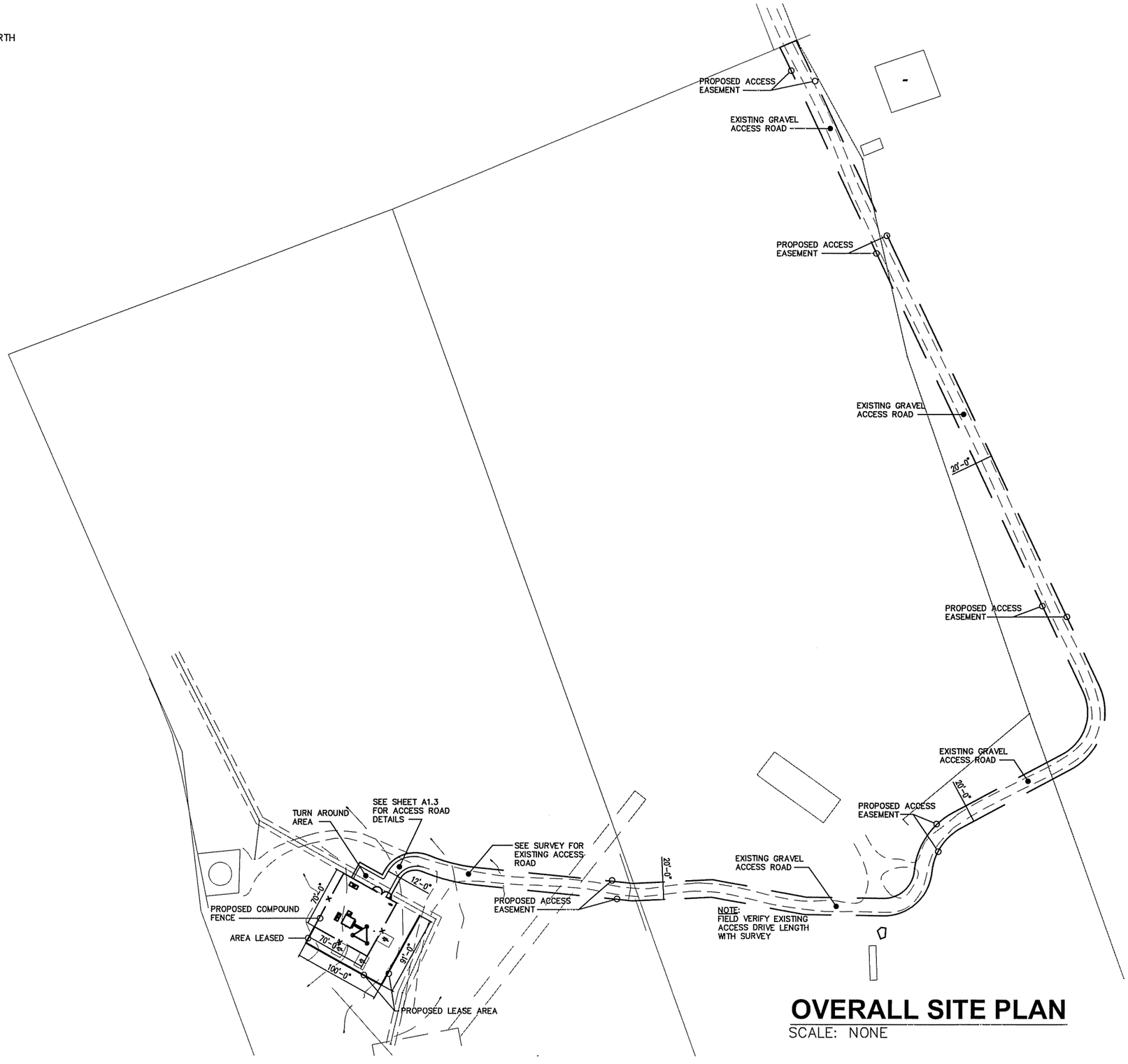
NO.	DATE

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

SHEET NUMBER S1.1 OF 1

FIELD VERIFY TRUE NORTH



OVERALL SITE PLAN

SCALE: NONE

RBS DESIGN
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(502)599-9427 Fax(502)231-3856

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
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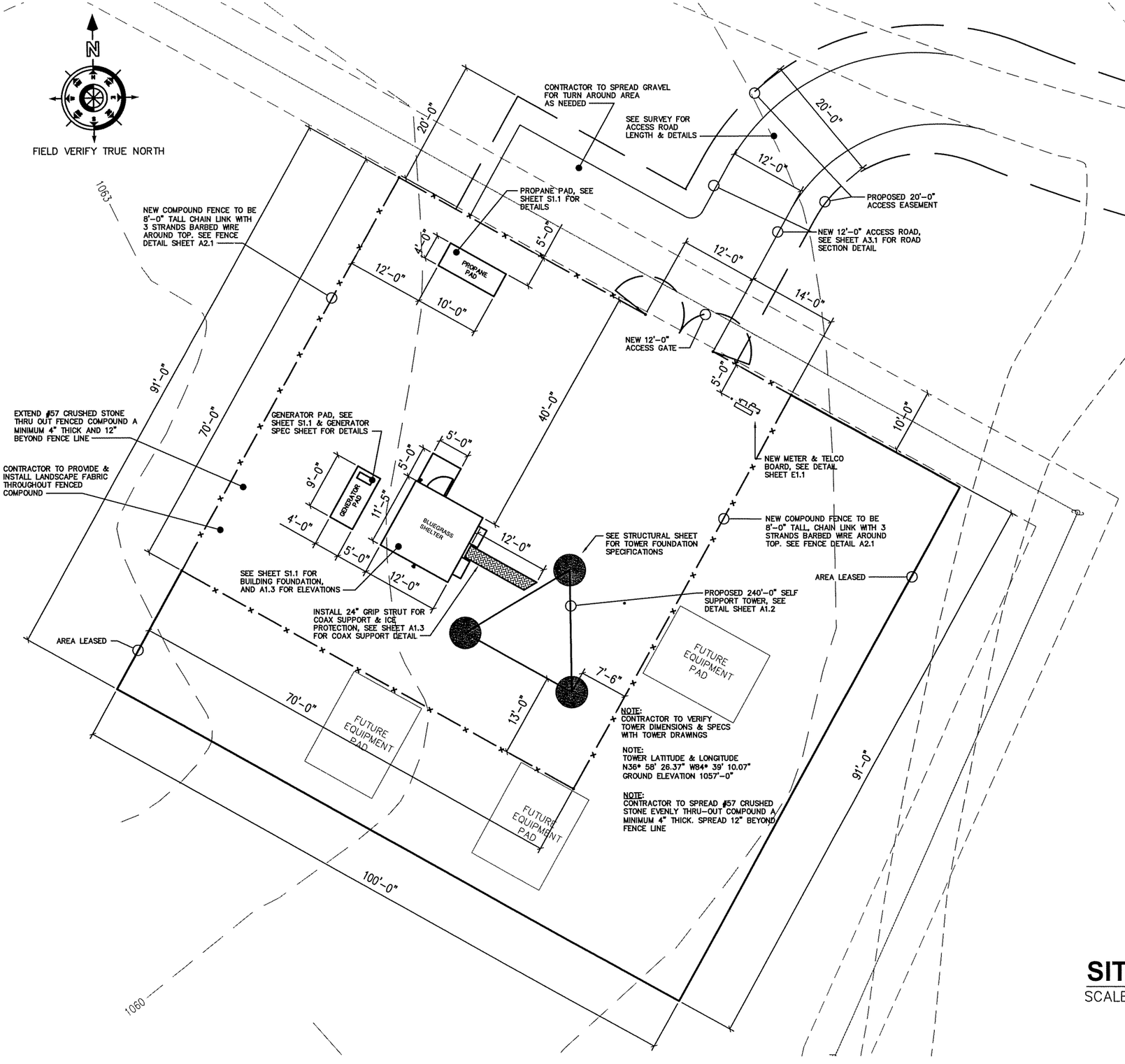
SHEET NUMBER
A1.0
OF
4



SITE PLAN

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

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..

B E S I G N
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[502]231-3656 Fax[502]239-9427

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STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

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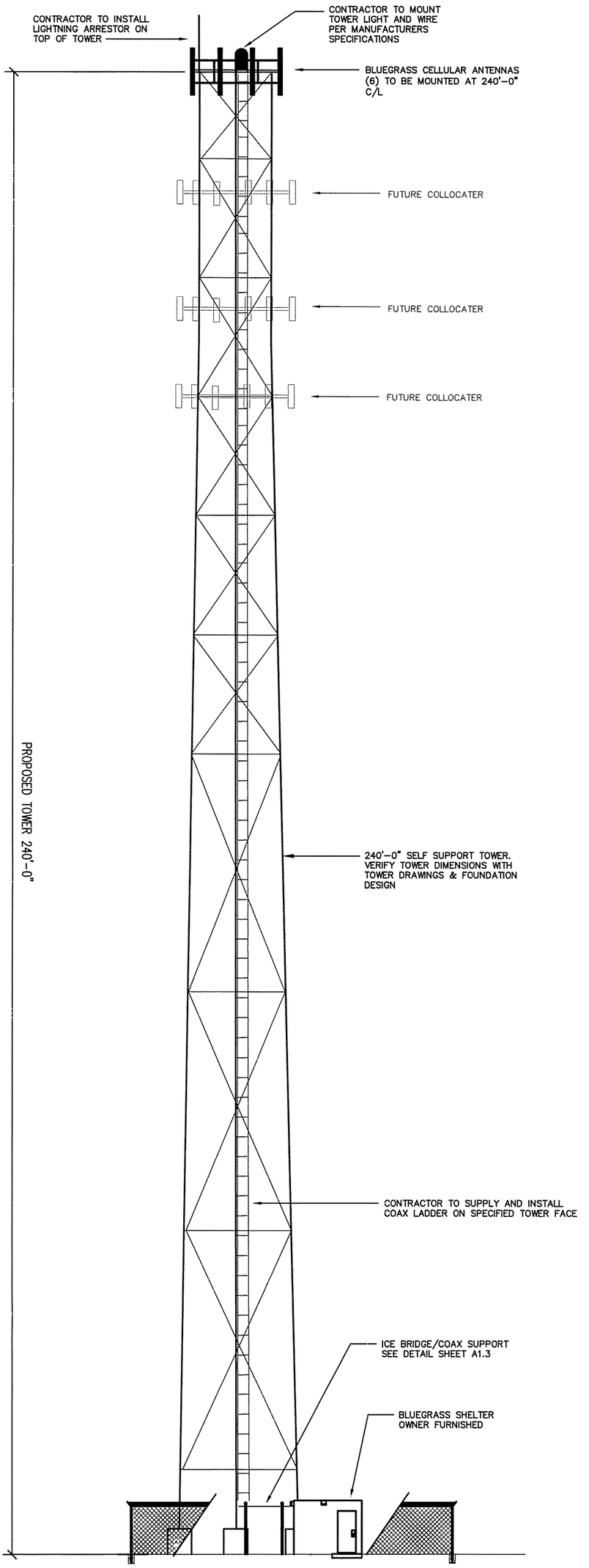
SHEET NUMBER
A1.1
OF
4

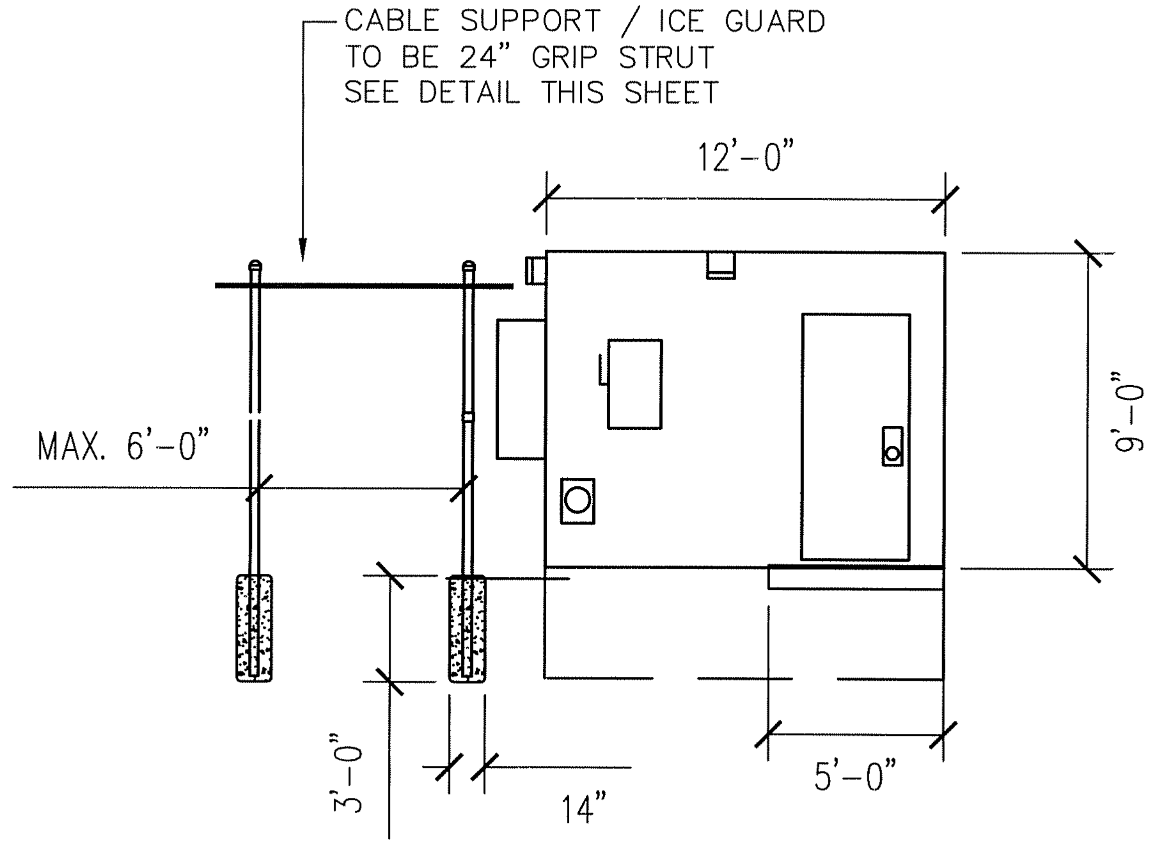
NOTE:
CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ANTENNA & LINES WORK. VERIFY PLACEMENT WITH BLUEGRASS CELLULAR



SITE ELEVATION

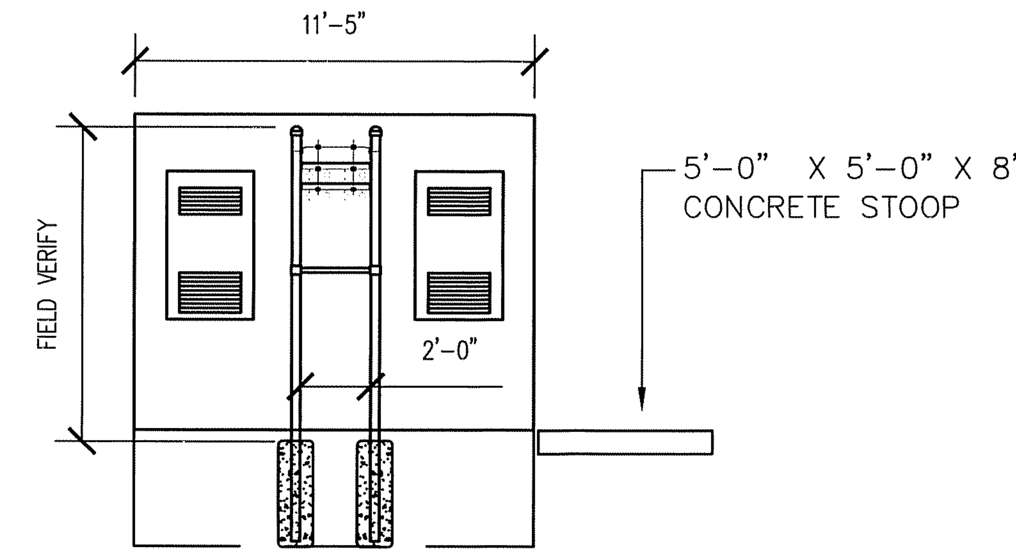
NO SCALE

SHEET NUMBER A1.2 OF 4	DRAWN BY: R. BECKER ISSUE DATE: 10-04-05 SCALE: LISTED	BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE **BRONSTON** 680 JOHN GOVER LN. BRONSTON, KY. 42518	NO.	DATE	REVISION	RSB DESIGN 5403 MERCURY DRIVE LOUISVILLE, KY. 40291 (502) 339-8427 Fax (502) 231-3656



BLDG. FRONT

NO SCALE



BLDG. SIDE

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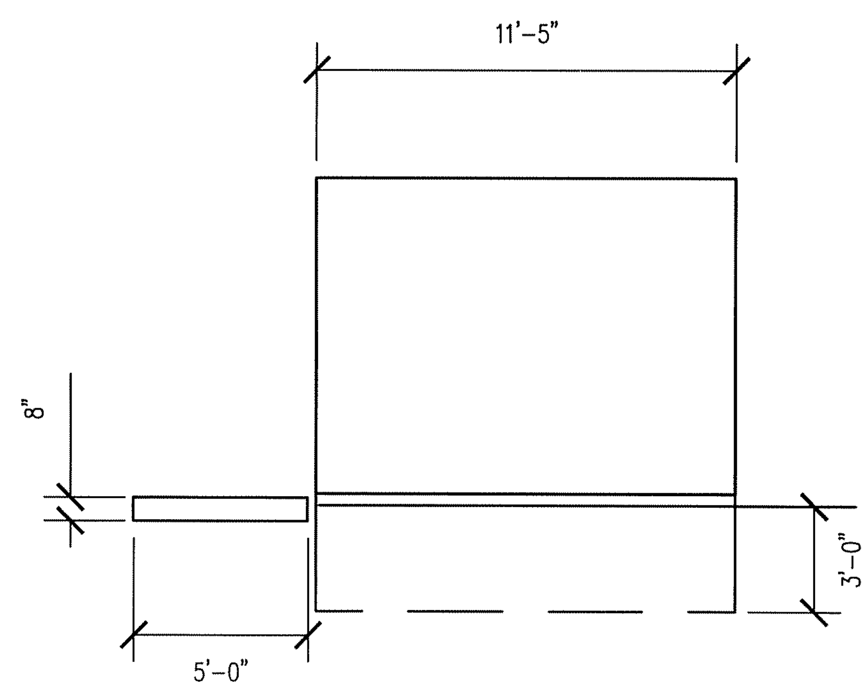

BLDG. REAR

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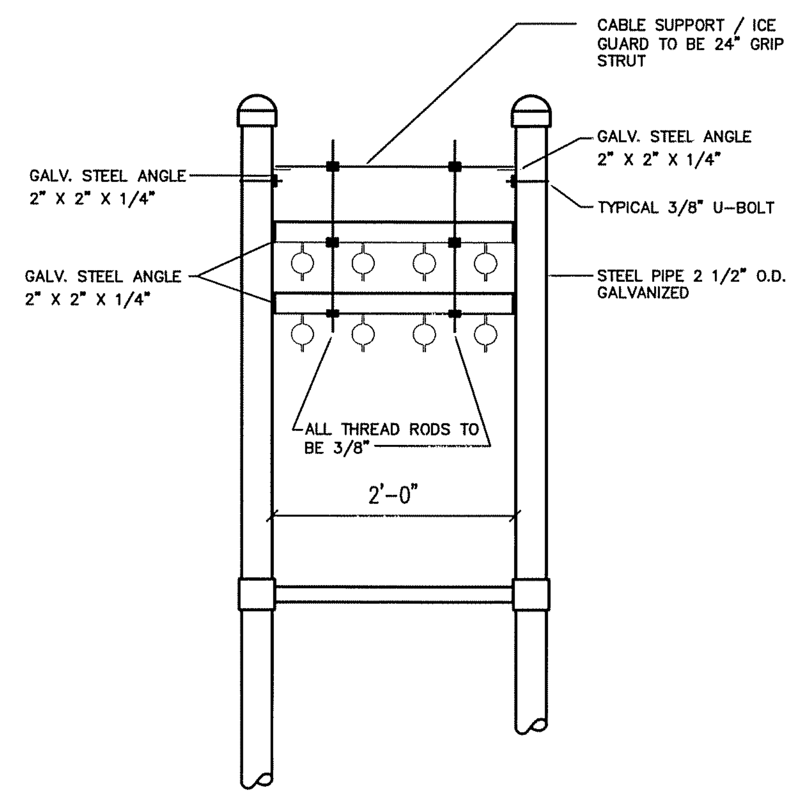

ICE BRIDGE DETAIL

NO SCALE

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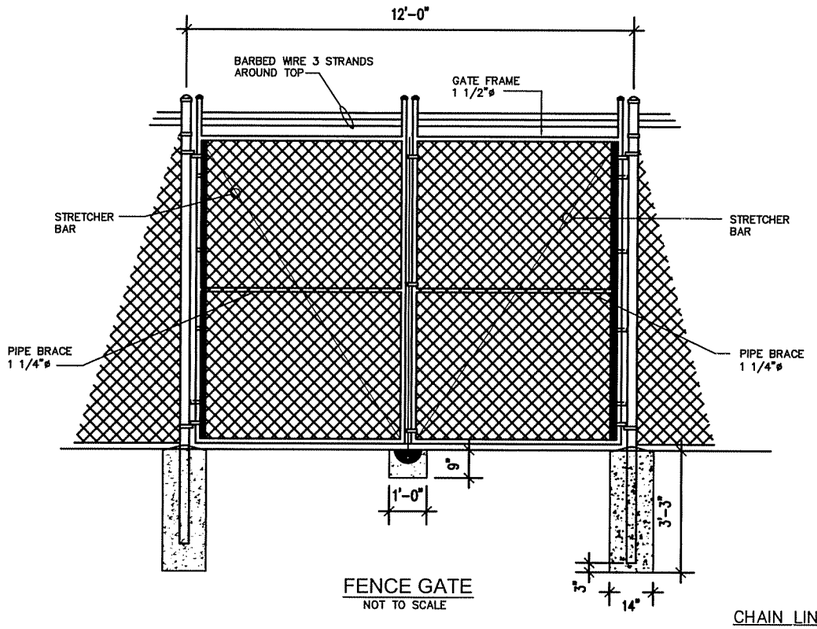
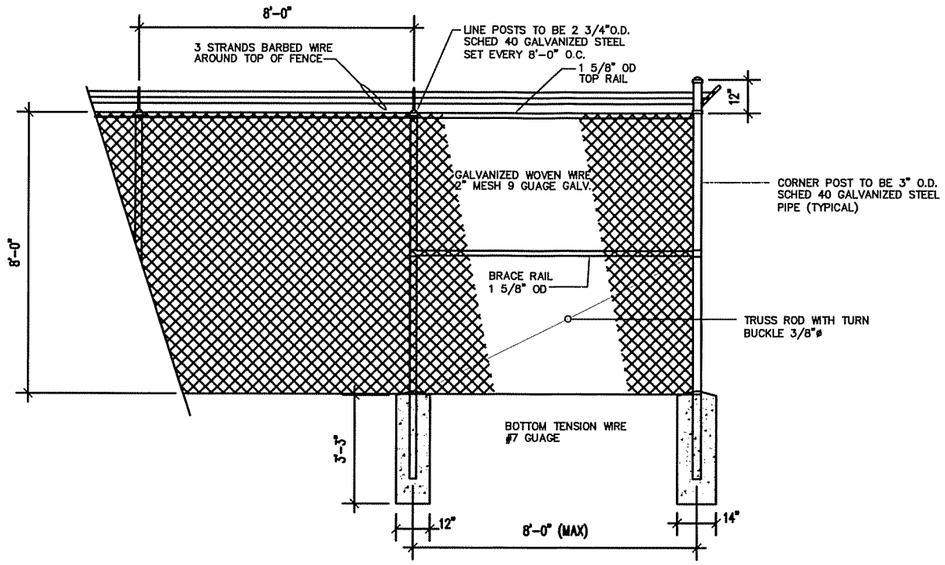
SHEET NUMBER A1.3 OF 4



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".

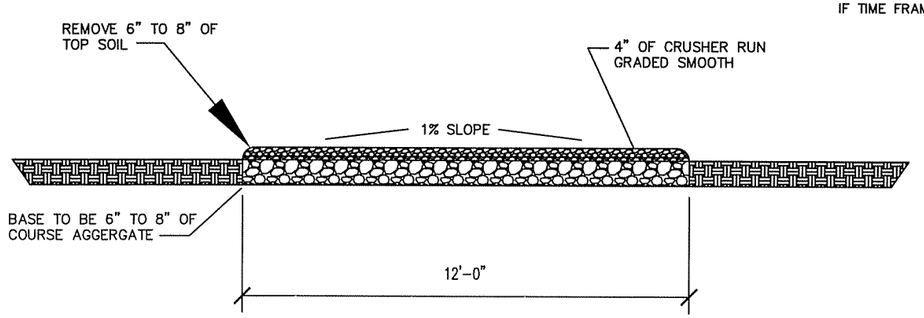
5 EXTENSION ARMS: CAST STEEL GALVANIZED TO ACCOMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45', AND VERTICAL ON TOP OF SWING GATES.

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.

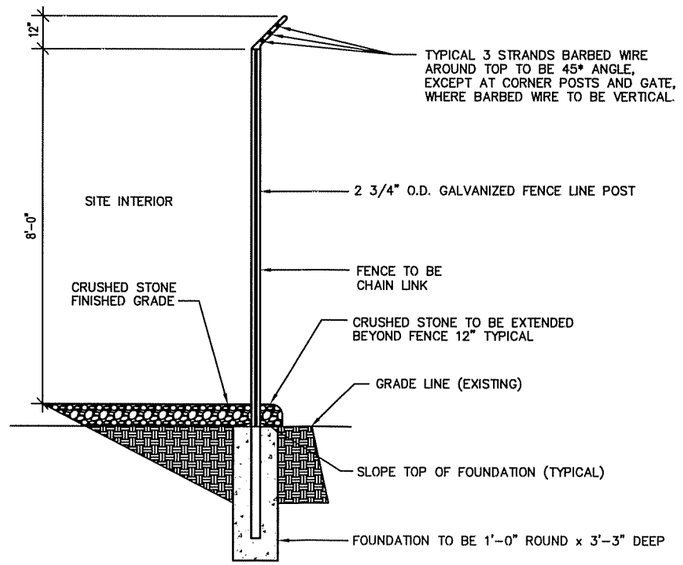
8 GATES: (a) SWING GATES: 2" O.C. STANDARD PIPE WITH INTERNAL BRACING OF 1 5/8" O.D. STANDARD PIPE; WELDED AT ALL JOINTS TO PROVIDE RIGID WATERTIGHT CONSTRUCTION. FABRIC SAME AS FENCE.

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



ROAD DETAIL

NOT TO SCALE



FENCE DETAIL LINE POLES

NOT TO SCALE

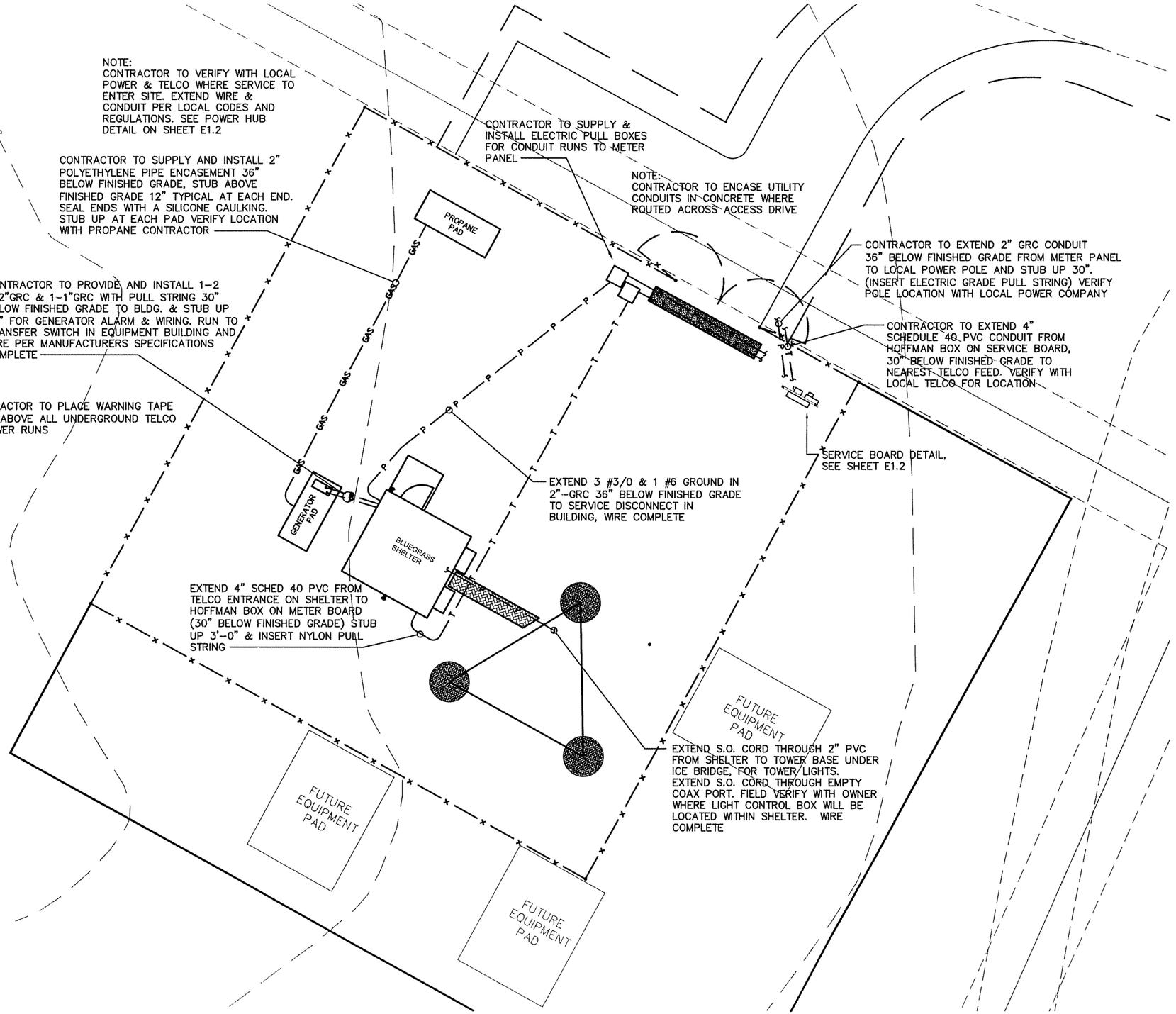
BESIGN
6403 MERCURY DRIVE LOUISVILLE, KY. 40291
[502]231-3656 Fax[502]933-9427

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

SHEET NUMBER
A2.1
OF
1



SITE PLAN- ELECTRICAL

SCALE: NONE

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. (CADD 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.

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.

SYMBOLS LEGEND

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

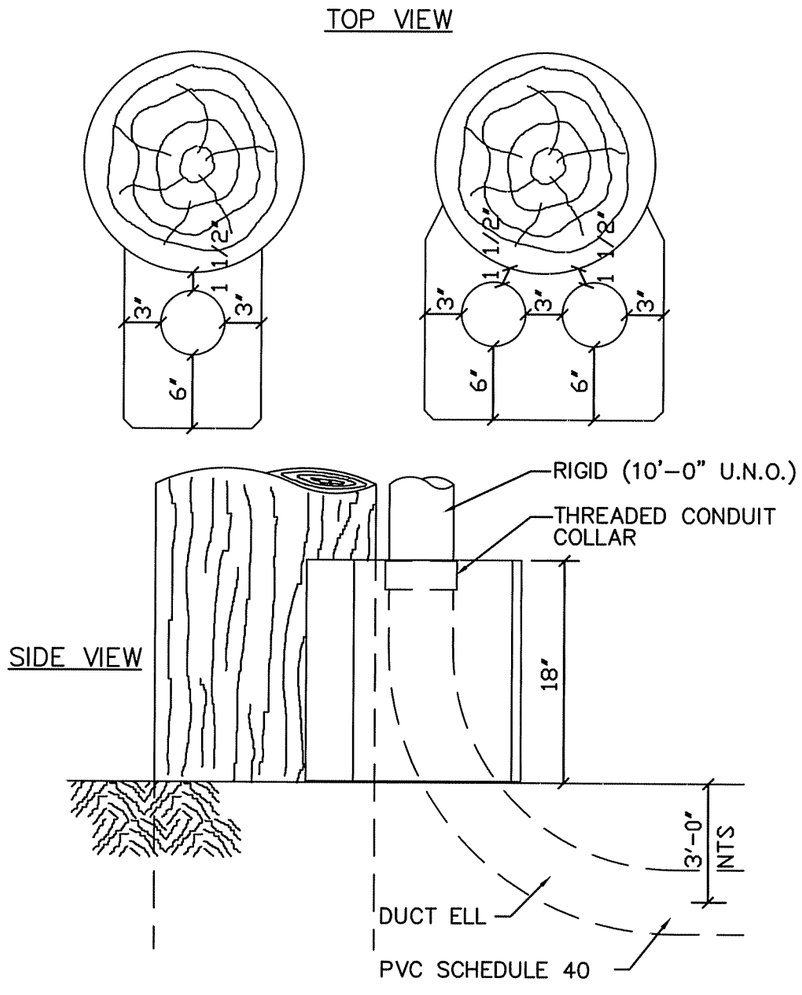
BES DESIGN
8403 MERCURY DRIVE LOUISVILLE, KY. 40291
(502) 239-9427 Fax (502) 231-3516

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

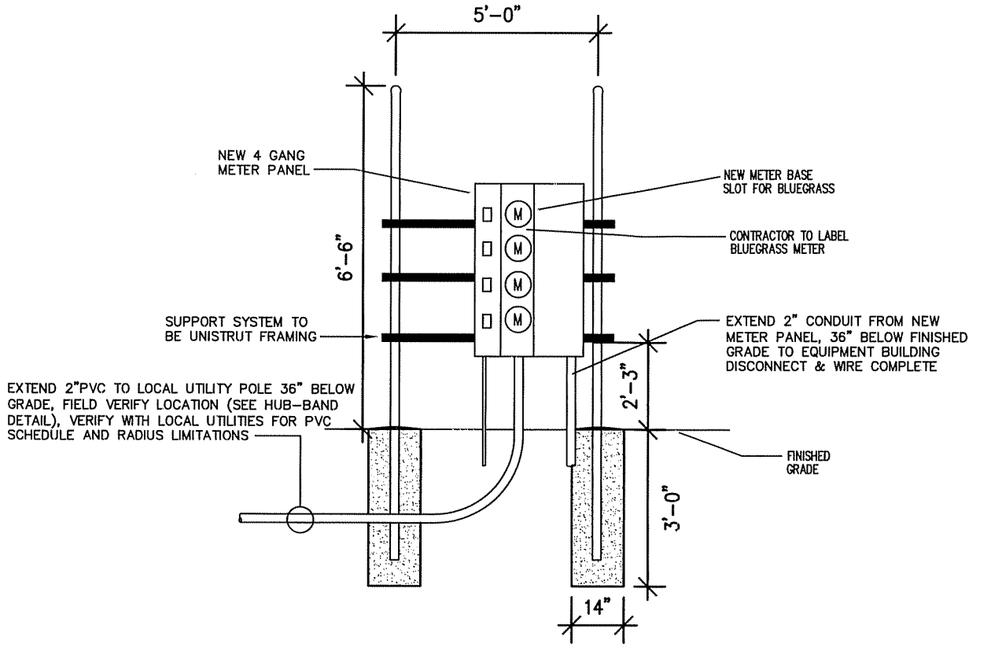
DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

SHEET NUMBER
E1.1
OF
2



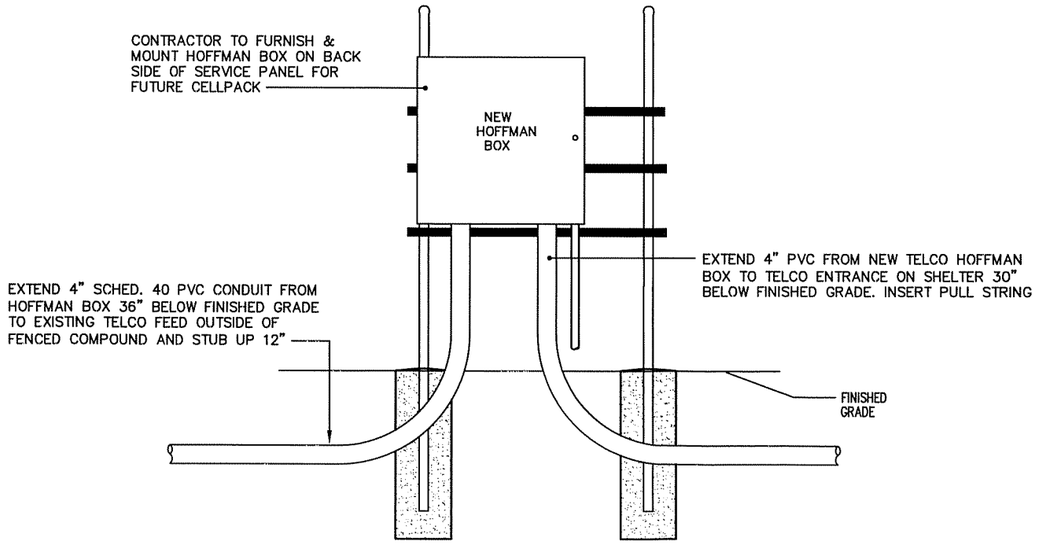
HUB-BAND DETAIL

NO SCALE



SERVICE BOARD DETAIL

NO SCALE



BACKBOARD DETAIL

NO SCALE

BASIGN
6403 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)599-9427 Fax(502)231-3656

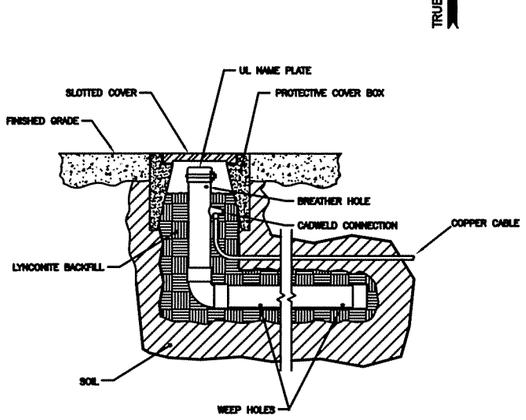
REVISION

NO.	DATE

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

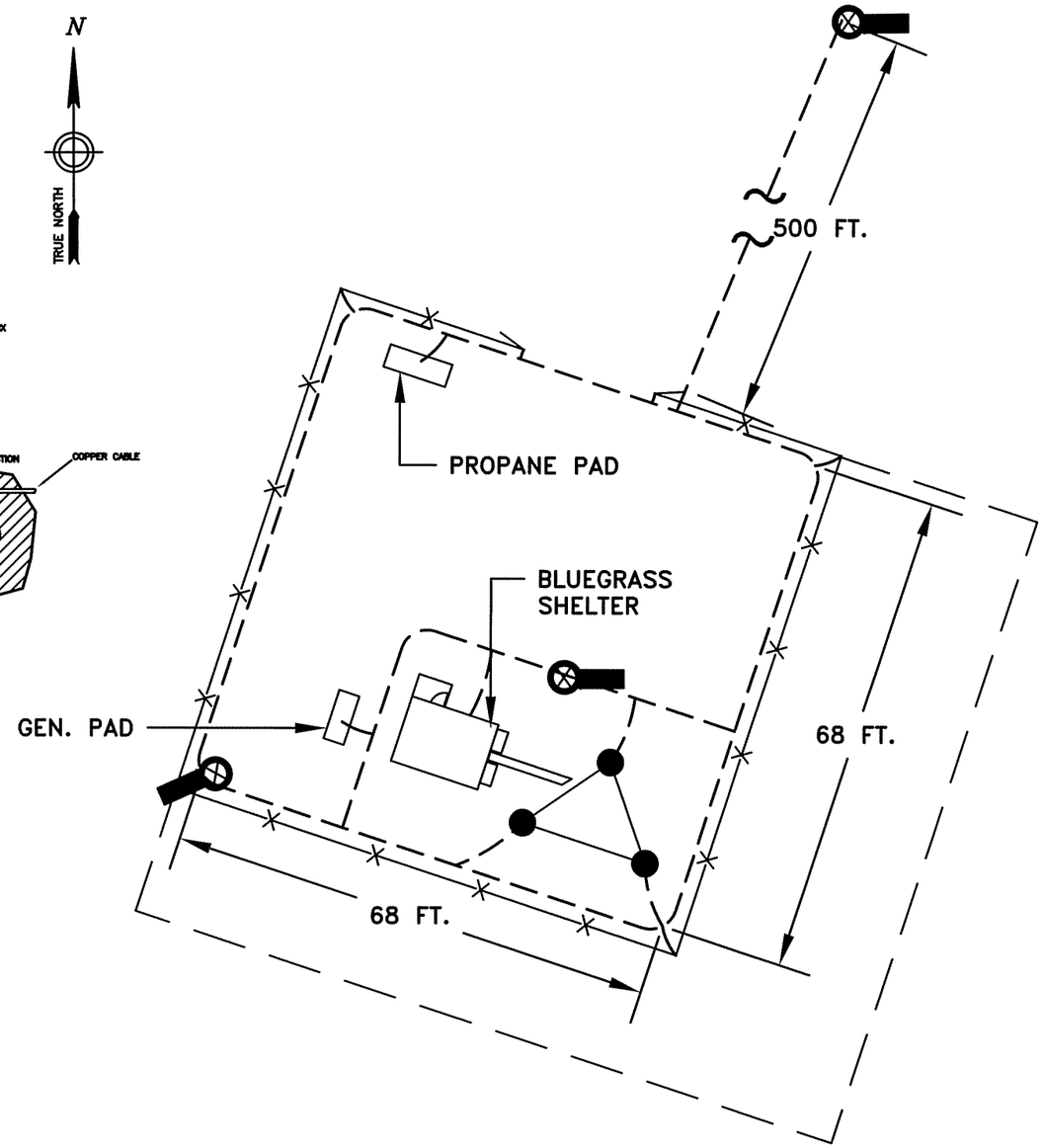
SHEET NUMBER
E1.2
OF
2



L-SHAPED MODEL

Lyncole XIT Grounding
(800) 962-2610

DETAIL



NOTES:

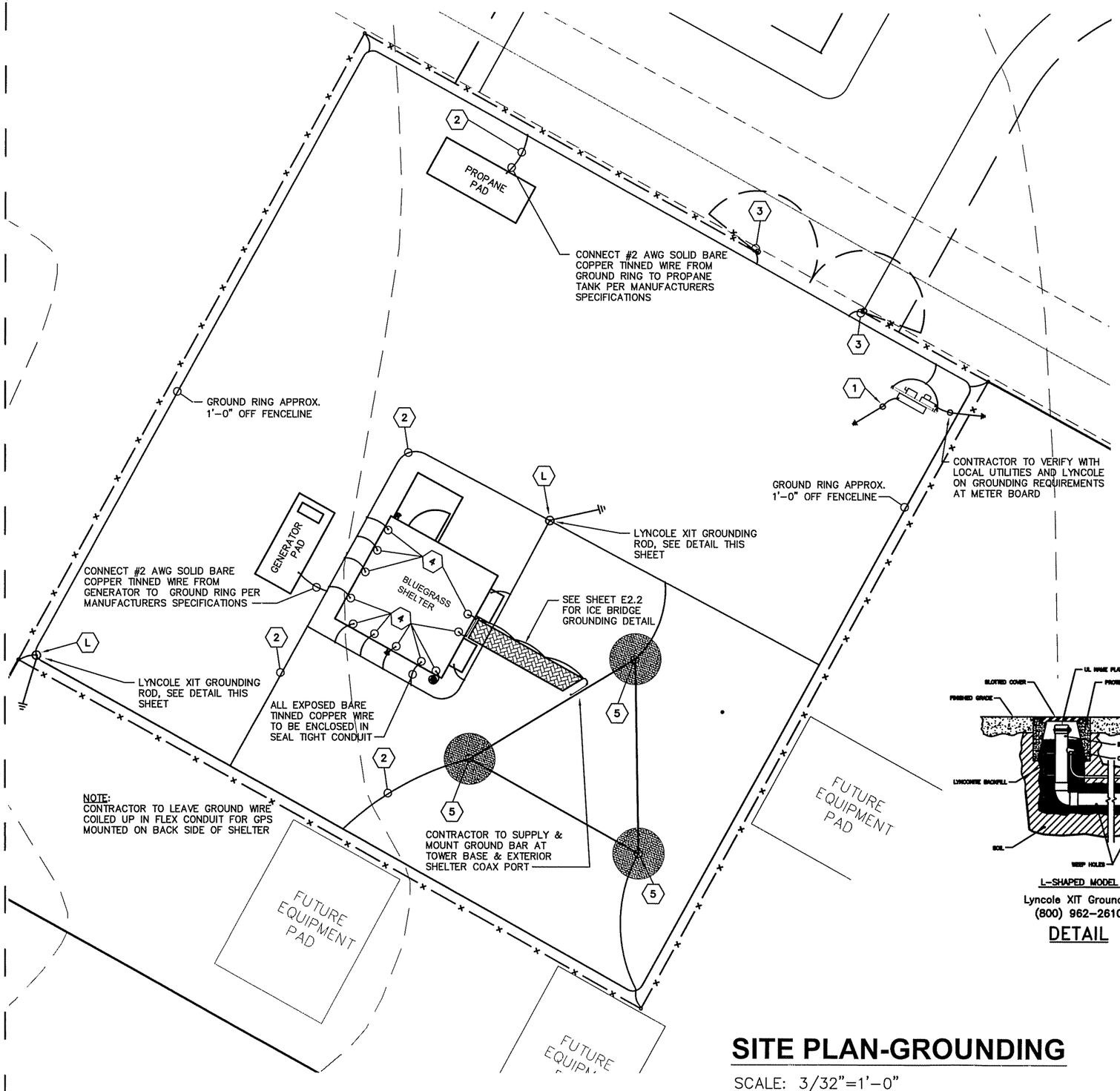
— — — BARE # 2 AWG TINNED SOLID COPPER CONDUCTOR BURIED 30 IN. BELOW GRADE OR 6 IN. BELOW FROST LINE

ALL BENDS IN GROUND CONDUCTOR TO BE MADE WITH MIN. 12 IN. RADIUS

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: BRONSTON CELL TOWER		
TITLE: GROUNDING OPTION			
LOCATION: CITY, STATE: BRONSTON, KY		CALCULATED RESISTANCE: < 5 OHMS	
DRAWN BY: MRA	APPROVED BY:	DATE: 11/23/2005	
SOIL DATA PROVIDED BY: TERRACON	REFERENCE NUMBER: N/A	SCALE: NONE	LTS NUMBER: 050486

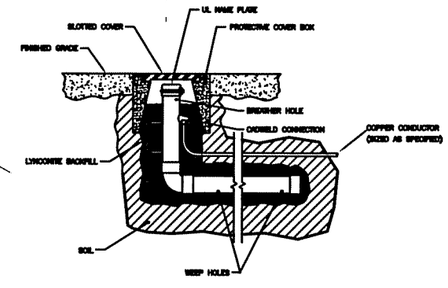


SITE PLAN-GROUNDING

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

SYMBOLS LEGEND

- LYNCOLE XIT ROD
- INSPEC. SLEEVE / GRND ROD
- INSPECTION SLEEVE
- CAD WELD CONNECTION
- TRANSFORMER
- LIGHTNING SUPPRESSOR
- SWITCH (DISCONNECT)
- METER PACK
- POWER
- GAS LINE
- WATER LINE
- SANITARY SEWER
- TELEPHONE
- STORM SEWER DRAIN
- FENCE



L-SHAPED MODEL
Lyncole XIT Grounding
(800) 962-2610

DETAIL

GENERAL ELECTRICAL NOTES:

1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES 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.

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 (TYPICAL) SPACING OF RODS INDICATED ON PLANS. INSPECTION SLEEVE TO

(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.

NOTE:
CONTRACTOR TO FOLLOW LYNCOLES MAIN GROUNDING DESIGN LAYOUT AS WELL AS THIS DETAILED DESIGN & VERIFY UTILITY GROUNDING REQUIREMENTS WITH LOCAL UTILITY COMPANY

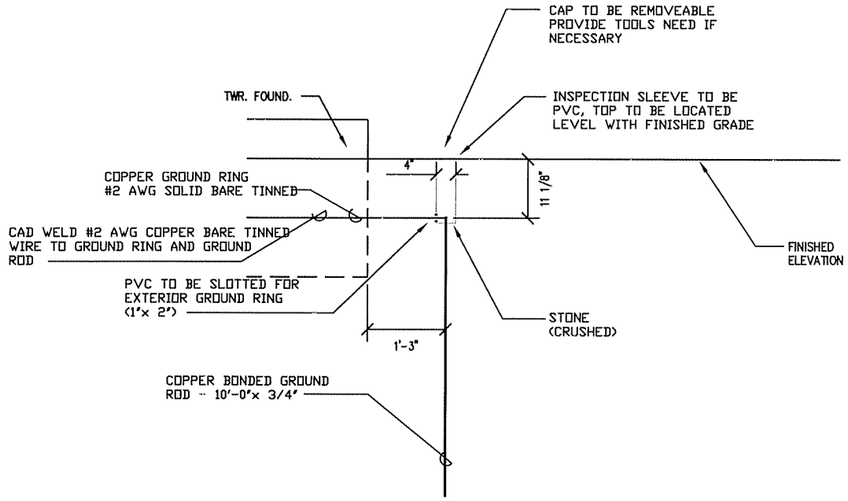
BRS DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)599-8427 Fax:(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

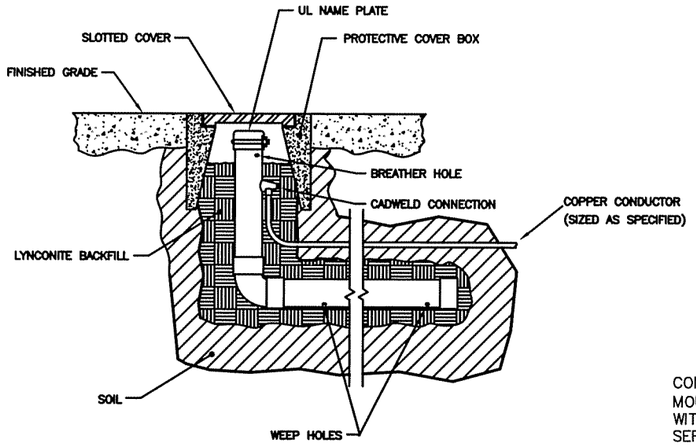
DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

SHEET NUMBER
E2.1
OF
2



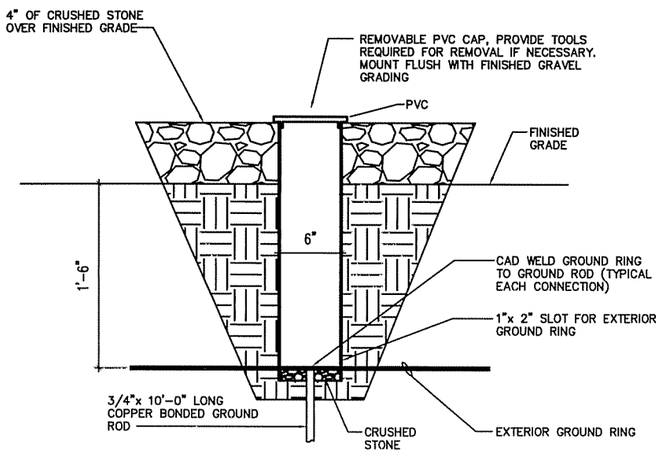
GROUND ROD DETAIL

NO SCALE



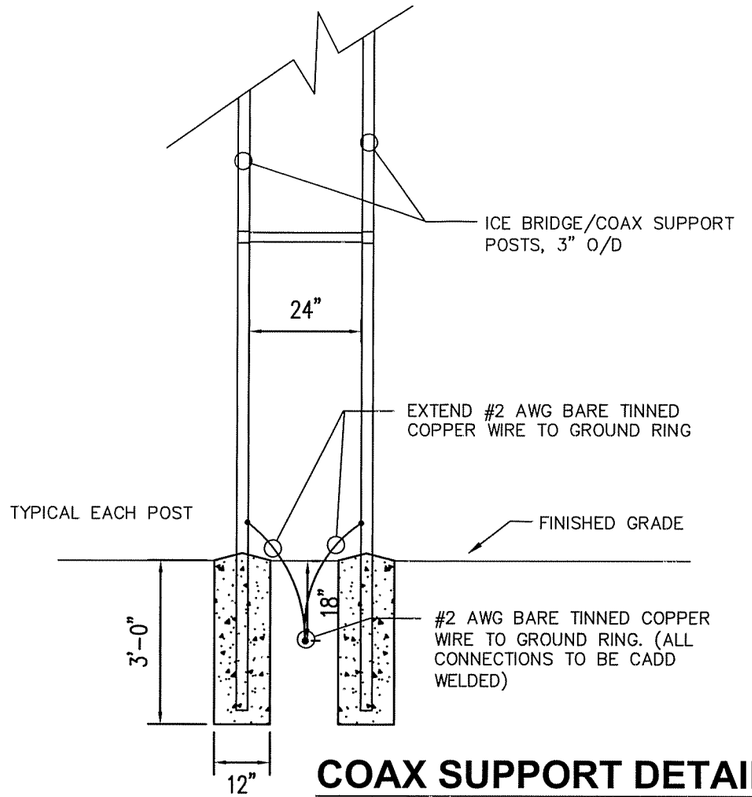
LYNCOLE XIT ROD DETAIL

NO SCALE



GROUND SLEEVE DETAIL

NO SCALE



COAX SUPPORT DETAIL

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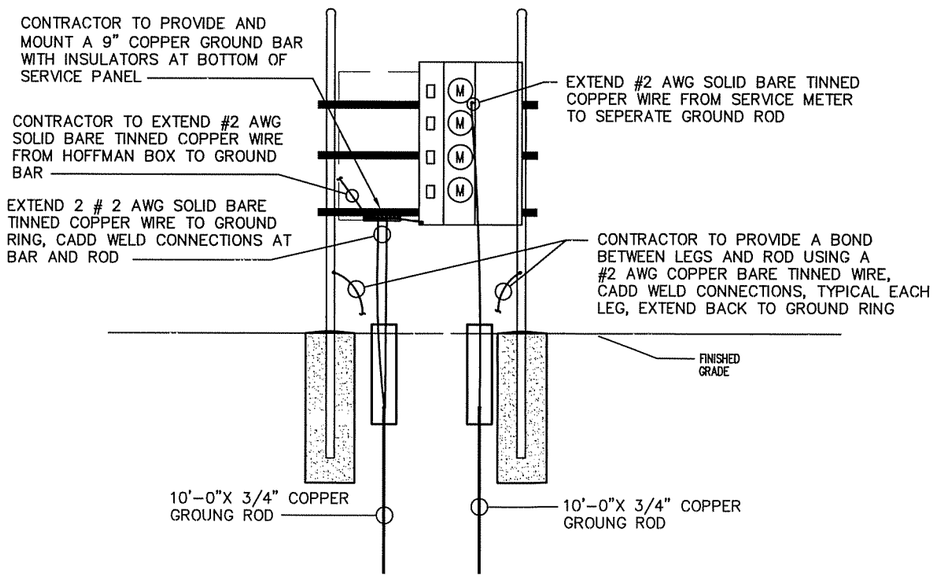


SERVICE BOARD DETAIL

NO SCALE

ARES DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502)599-9427 Fax:(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BRONSTON
680 JOHN GOVER LN. BRONSTON, KY. 42518

DRAWN BY: R. BECKER
ISSUE DATE: 10-04-05
SCALE: LISTED

SHEET NUMBER
E2.2
OF
2

Land Surveyors and Consulting Engineers
Formerly F.S. Land & T. Alan Neal Companies

Site Name: BRONSTON

DRIVE TO DIRECTIONS

From the Pulaski County Seat in Somerset, Kentucky take SR 1247 (South Main Street) South 0.8 miles to SR 1577 (Monticello Street). Turn right onto SR 1577 (Monticello Street) and proceed South 0.7 miles to SR 2292 (Monticello Street). Turn left onto SR 2292 and proceed South 1.9 miles to US Highway 27. Turn left onto US Highway 27 and proceed South 4.1 miles to State Route 90. Turn right onto State Route 90 and proceed West 3.1 miles to John Gover Road. Turn left onto John Gover Road (gravel) and proceed South 0.8 miles past the Residence and 2 barns to the proposed site. The site is located approximately 250' North-Northwest of the existing guyed tower and approximately 150' Southeast of the water tower.

2315 Crittenden Drive PO Box 17546 Louisville, KY 40217
Phone: (502) 636-5111 (502) 635-5866 Fax: (502) 636-5263

Site Name: Bronston

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 30 day of September, 2005, by and between **John K. Gover** whose address is **539 John Gover Lane, Bronston, KY 42518** (the "Optionor (s)" and **Bluegrass Wireless LLC, a Kentucky limited liability company** with principal office and place of business at **2902 Ring Road, Elizabethtown, KY 42701** (the "Optionee").

W I T N E S S E T H:

WHEREAS, the Optionor(s) is the owner of certain real property located in **Pulaski** 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 Two Hundred Dollars and Zero Cents ($1,200.00)** 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 9-30-2006, (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: **539 John Gover Lane, Bronston, KY 42518**; the Optionee's address shall be: **2902 Ring Road, Elizabethtown, KY 42701.**

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 **Pulaski** 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 **three (3) 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 **Five Thousand Four Hundred Dollars and Zero Cents (5,400.00)** 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.

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: Bronston

EXECUTION OF AGREEMENT(S)

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

John K. Gover

("Optionor(s)")

By: John K. Gover
Property Owner

Date: 9-30-05

("Optionee")

By: Ron Smith
Authorized Representative
Bluegrass Wireless LLC

Date: 10-03-05

Site Name: Bronston

STATE OF Kentucky

COUNTY OF Hardin

The foregoing instrument was acknowledged before me this 30 day of September, 2005, by John K. Bower to be his/her free act and deed.

NOTARY PUBLIC STATE AT LARGE

My commission expires: 1-17-06

STATE OF Kentucky

COUNTY OF **Hardin**

The foregoing instrument was acknowledged before me this 3rd day of October, 2005, by **Ron Smith**, to be his free act and deed.

NOTARY PUBLIC STATE OF LARGE

My commission expires: 1-17-06

This instrument prepared by:

John E. Selent

DINSMORE & SHOHL LLP

1400 PNC Plaza

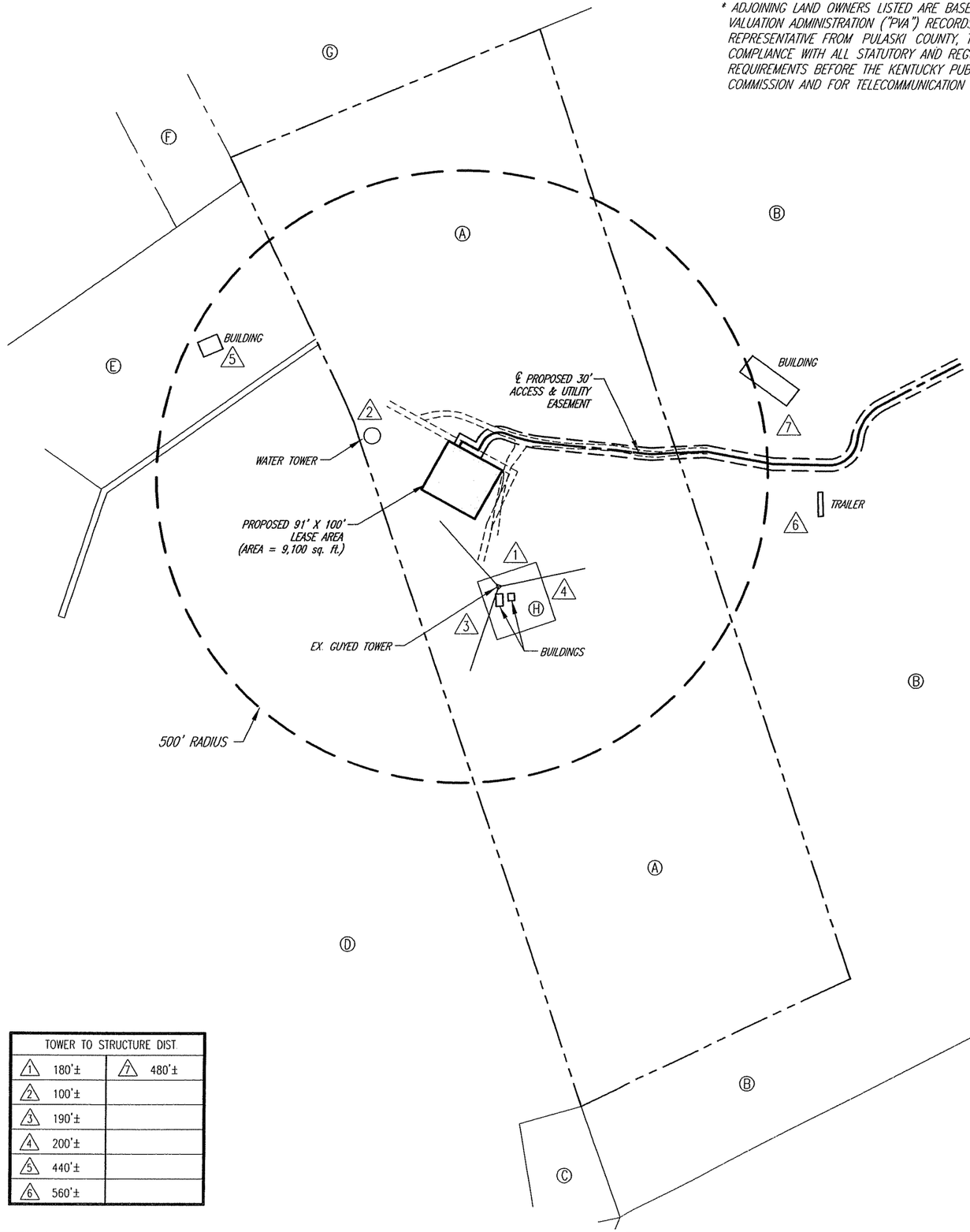
500 West Jefferson Street

Louisville, KY 40202

(502) 540-2300

SHEET 1	
S1/1	– VICINITY AND 500' STRUCTURAL MAP
S1/2	– ABUTTING PROPERTY OWNERS
S1/3	– U.S.G.S. QUAD MAP
SHEET 2	
S2/1	– PROPOSED LEASE AREA
S2/2	– LEGAL DESCRIPTIONS
S2/3	– FLOOD ZONE DATA

* ADJOINING LAND OWNERS LISTED ARE BASED ON PROPERTY VALUATION ADMINISTRATION ("PVA") RECORDS ISSUED BY A REPRESENTATIVE FROM PULASKI COUNTY, TO BE IN COMPLIANCE WITH ALL STATUTORY AND REGULATORY REQUIREMENTS BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION AND FOR TELECOMMUNICATION USE ONLY.



GRID NORTH

TRUE NORTH

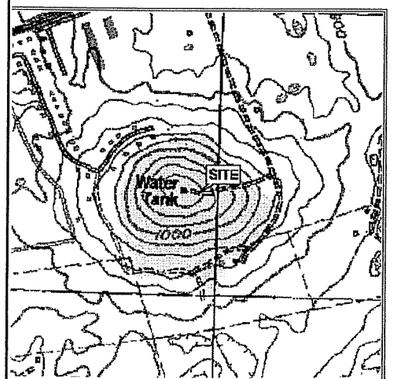
00° 40' 00"

GRID NORTH BY G.P.S. OBSERVATION, ±10 SECONDS

NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON OCTOBER 17, 2005.

0' 100' 200' 400'

(IN FEET)
SCALE: 1" = 100'



S1/3 QUAD MAP
SCALE: 1"=2000'

U.S.G.S. 7 1/2 MINUTE QUAD MAP OF FRAZER, KY

TOWER TO STRUCTURE DIST.			
1	180'±	7	480'±
2	100'±		
3	190'±		
4	200'±		
5	440'±		
6	560'±		

S1/2

Ⓐ MAP 52-6-3, LOT 58
GOVER, JOHN K. & RUTH G.
539 JOHN GOVER LANE
BRONSTON, KY 42518
DEED BOOK 390, PAGE 510
NO ZONING

Ⓑ MAP 52-6-3, LOT 71
GOVER, JOHN K. & RUTH
539 JOHN GOVER LN
BRONSTON, KY 42518
DEED BOOK 261, PAGE 321
NO ZONING

Ⓒ MAP 52-6-3-, LOT 79.1
TARA INC.
81 REALTY LN
SOMERSET, KY 42501
DEED BOOK 468, PAGE 153
NO ZONING

Ⓓ MAP 52-6-3, LOT 41
GIBSON, DANNY WAYNE
91 CEDAR EDGE LN
BRONSTON, KY 42518
DEED BOOK 469, PAGE 494
NO ZONING

Ⓔ MAP 52-6-3, LOT 51
PURCELL, BLAINE
P.O. BOX 513
BRONSTON, KY 42518
DEED BOOK 650, PAGE 329
NO ZONING

Ⓕ MAP 52-6-3, LOT 57
DUFFY, ROBIN S. & PAULA
531 SUNSET DR
BRONSTON, KY 42518
DEED BOOK 497, PAGE 524
NO ZONING

Ⓖ MAP 52-5, LOT 69
WEST BRONSTON PROPERTIES LLC
P.O. BOX 399
BRONSTON, KY 42518
DEED BOOK 724, PAGE 202
NO ZONING

Ⓗ MAP 52-6-3 LOT 59
RAMSEY, KELLY G. & LISA M
6917 HARRODSBURG RD
NICHOLASVILLE, KY 40356
DEED BOOK 570, PAGE 285
NO ZONING

BLUEGRASS CELLULAR

2902 RING ROAD
ELIZABETHTOWN, KY 42702

F.S. Land Company
T. Alan Neal Company
Land Surveyors and Consulting Engineers
PO Box 17546 2313/2315 Crittenden Drive
Louisville, KY 40217
Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-3263

SITE NUMBER:

SITE NAME:
BRONSTON

SITE ADDRESS:
680 JOHN GOVER LANE
BRONSTON, KY 42518

PROPOSED LEASE AREA:
AREA = 9100 sq. ft.

PROPERTY OWNER:
JOHN K. & RUTH G. GOVER
539 JOHN GOVER LANE
BRONSTON, KY 42518

TAX MAP NUMBER:
52-6-3

PARCEL NUMBER:
58

SOURCE OF TITLE:
DEED BOOK 390, PAGE 510

DWG BY:	CHKD BY:	DATE:
REL	FSII	10.27.05

FSTAN PROJECT NO.:
05-3597

SHEET 1 OF 2

REVISIONS:
OWNER LIST – 11.04.05

C1

Land Surveyors and Consulting Engineers
Formerly E.S. Land & L. Van Sant Companies

Site Name: BRONSTON

500' RADIUS & ADJOINING LANDOWNER LIST

Map 52-6-3, Lot 58
GOVER, JOHN K. & RUTH G.
539 JOHN GOVER LANE
BRONSTON, KY 42518
Deed Book 390, Page 510
No Zoning

Map 52-6-3, Lot 71
GOVER, JOHN K. & RUTH G.
539 JOHN GOVER LANE
BRONSTON, KY 42518
Deed Book 261, Page 321
No Zoning

Map 52-6-3, Lot 79.1
TARA INC.
81 REALTY LANE.
SOMERSET, KY. 42501
Deed Book 468, Page 153
No Zoning

Map 52-6-3, Lot 41
GIBSON, DANNY WAYNE
91 CEDAR EDGE LANE
BRONSTON, KY 42518
Deed Book 469, Page 494
No Zoning

Map 52-6-3, Lot 51
PURCELL, BLAINE
P.O. BOX 513
BRONSTON, KY 42518
Deed Book 650, Page 329
No Zoning

Map 52-6-3, Lot 57
DUFFY, ROBIN S. & PAULA
531 SUNSET DRIVE
BRONSTON, KY 42518
Deed Book 497, Page 524
No Zoning

2315 Crittenden Drive PO Box 17546 Louisville, KY 40217
Phone: (502) 636-5111 (502) 635-5866 Fax: (502) 636-5263

Map 52-5, Lot 69
WEST BRONSTON PROPERTIES, LLC
P.O. BOX 399
BRONSTON, KY 42518
Deed Book 724, Page 202
No Zoning

Map 52-6-3, Lot 59
RAMSEY, KELLY G. & LISA M.
6917 HARRODSBURG ROAD
NICHOLASVILLE, KY 40356
Deed Book 570, Page 285
No Zoning

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

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

CASE NO. 2005-00449

AFFIDAVIT OF JOHN E. SELENT

I, John E. Selent, being duly sworn, depose and state as follows:

1. My name is John E. Selent and I am a member of the Kentucky Bar Association. I am legal counsel to Bluegrass Wireless LLC and am submitting this affidavit in conjunction with the above referenced matter.

2. Pursuant to 807 KAR 5:063 §1(1)(l), the attached list containing the names of the residents/tenants and property owners within 500 feet of the proposed tower have been: (i) notified by written notice of the proposed construction, sufficient postage prepaid, by United States certified mail, return receipt requested; (ii) given the Commission docket number under which the application will be processed; and (iii) informed of the right to request intervention.

3. A copy of the certified mail return receipts for each of the above property owners that show proof of service is attached hereto.

4. The address for Blaine Purcell is a P.O. Box and therefore cannot be served by U.S. Certified Mail, pursuant to 807 KAR 5:063 § 1(l) and (m).

5. For the reason set forth in paragraph 4, the written notice of the proposed construction for Blaine Purcell was sent via U.S. Express Mail. The proof of service is attached hereto.

Further Affiant saith not.

John E. Selent

COMMONWEALTH OF KENTUCKY)
)SS:
COUNTY OF JEFFERSON)

SUBSCRIBED AND SWORN to before me this 13th day of December, 2005.

My commission expires: 11/20/07

Notary Public

106017v1
33597-12

PUBLIC NOTICE

TO: Blaine Purcell
P.O. Box 513
Bronston, Kentucky 42518

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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

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

Please refer to case number 2005-00449 in your correspondence.

UNITED STATES POSTAL SERVICE

Track & Confirm

Search Results

Label/Receipt Number: **EQ31 0795 618U S**
Status: **Delivered**

Your item was delivered at 8:50 am on December 05, 2005 in BRONSTON, KY 42518. The item was signed for by B PURCELL.

Additional Details > Return to USPS.com Home >

Track & Confirm

Enter Label/Receipt Number.

Go >

Notification Options

Track & Confirm by email

Get current event information or updates for your item sent to you or others by email. Go >

Proof of Delivery

Verify who signed for your item by email, fax, or mail. Go >

UNITED STATES POSTAL SERVICE

Track & Confirm

Search Results

Label/Receipt Number: **EQ31 0795 618U S**
Detailed Results:

- **Delivered, December 05, 2005, 8:50 am, BRONSTON, KY 42518**
- **Notice Left, December 01, 2005, 3:36 pm, BRONSTON, KY 42518**
- **Arrival at Pick-Up-Point, November 30, 2005, 7:42 am, BRONSTON, KY 42518**
- **Enroute, November 30, 2005, 4:13 am, SOMERSET, KY 42501**
- **Arrival at Unit, November 30, 2005, 4:11 am, SOMERSET, KY 42501**
- **Enroute, November 29, 2005, 4:58 pm, LOUISVILLE, KY 40231**
- **Acceptance, November 29, 2005, 11:05 am, LOUISVILLE, KY 40270**

< Back Return to USPS.com Home >

Track & Confirm

Enter Label/Receipt Number.

Go >

Notification Options

Track & Confirm by email

Get current event information or updates for your item sent to you or others by email. Go >

Proof of Delivery

Verify who signed for your item by email, fax, or mail. Go >

PUBLIC NOTICE

TO: West Bronston Properties, LLC
P.O. Box 399
Bronston, Kentucky 42518

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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

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

Please refer to case number 2005-00449 in your correspondence.

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:
W. Bronston Properties LLC
3025 Highway 90
Bronston, KY 42518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Misty Brown ☐ Agent ☐ Addressee

B. Received by (Printed Name) Misty Brown
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) 7005 2570 0001 5985 6161

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

PUBLIC NOTICE

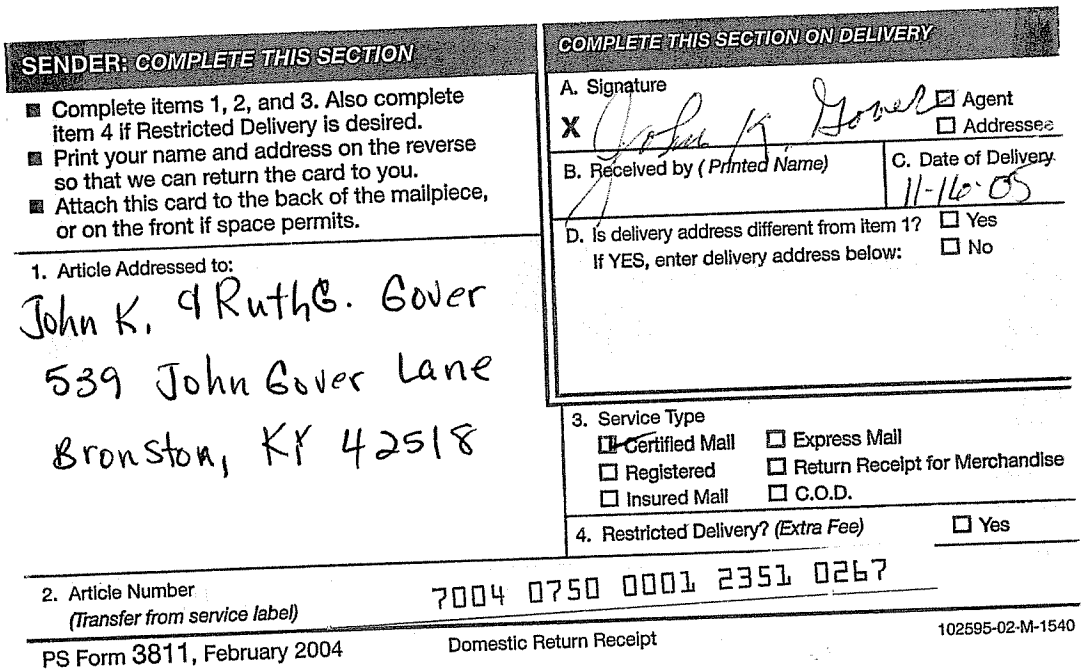
TO: John K. and Ruth G. Gover
539 John Gover Lane
Bronston, Kentucky 42518

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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

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

Please refer to case number 2005-00449 in your correspondence.



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:
John K. & Ruth G. Gover
539 John Gover Lane
Bronston, KY 42518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 11-16-05

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) 7004 0750 0001 2351 0267

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

PUBLIC NOTICE

TO: Tara Inc.
81 Realty Lane
Somerset, Kentucky 42501

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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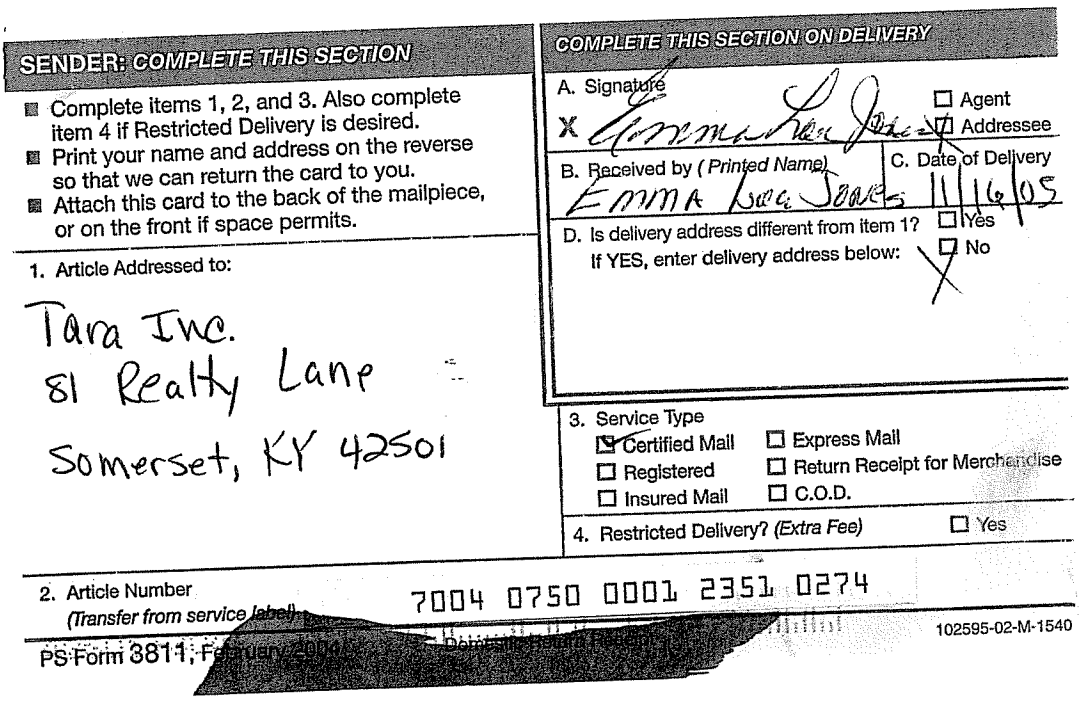
Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky 40602

Please refer to case number 2005-00449 in your correspondence.



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:

Tara Inc.
81 Realty Lane
Somerset, KY 42501

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) EMMA [illegible] C. Date of Delivery 11/16/05

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) 7004 0750 0001 2351 0274

PS Form 3811, February 2004 [illegible] 102595-02-M-1540

PUBLIC NOTICE

TO: Danny Wayne Gibson
91 Cedar Edge Lane
Bronston, Kentucky 42518

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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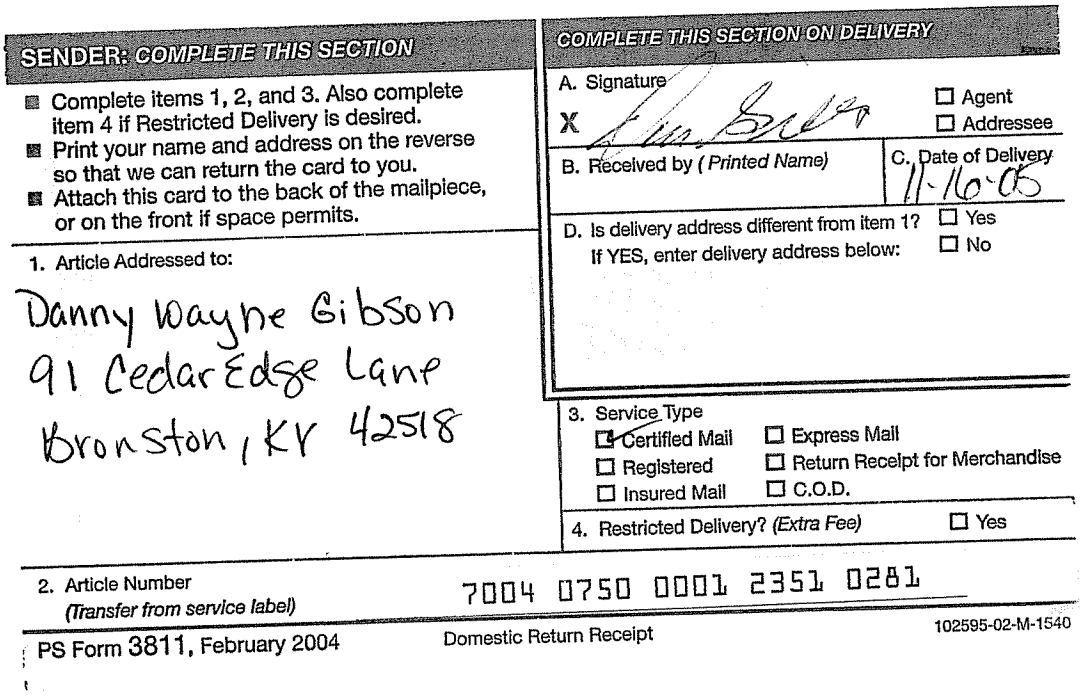
Executive Director's Office
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky 40602

Please refer to case number 2005-00449 in your correspondence.



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:

Danny Wayne Gibson
91 Cedar Edge Lane
Bronston, KY 42518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 11-16-05

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) 7004 0750 0001 2351 0281

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

PUBLIC NOTICE

TO: Robin S. and Paula Duffy
531 Sunset Drive
Bronston, Kentucky 42518

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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

Please refer to case number 2005-00449 in your correspondence.

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:
Robin S. & Paula Duffy
531 Sunset Drive
Bronston, KY 42518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 11-16-05

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) 7005 2570 0001 5985 5539

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

PUBLIC NOTICE

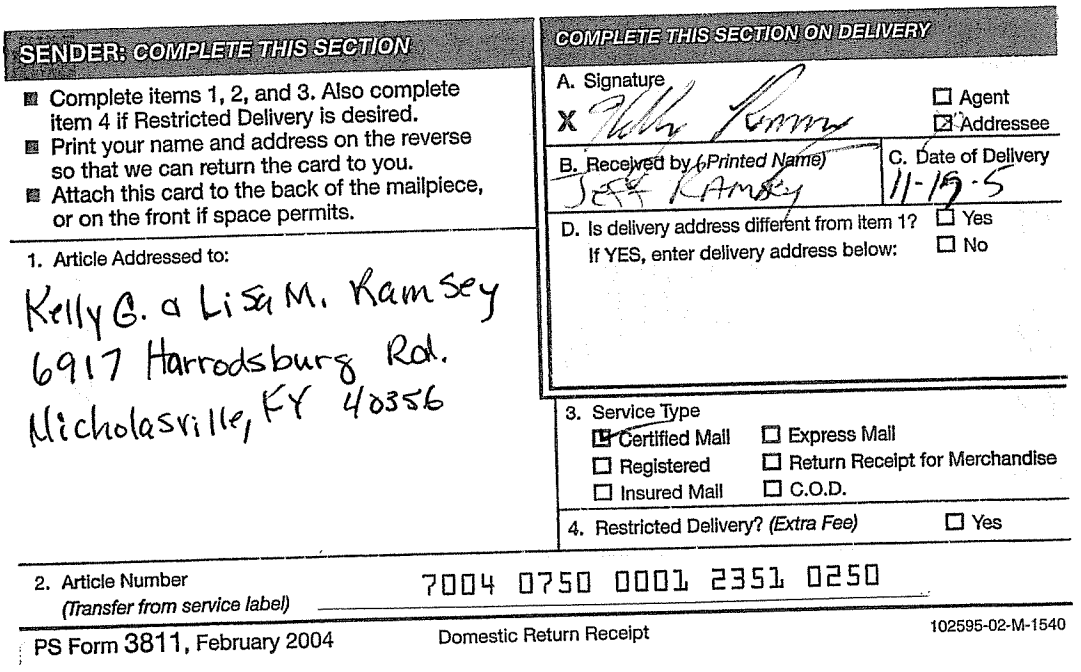
TO: Kelly G. and Lisa M. Ramsey
6917 Harrodsburg Road
Nicholasville, Kentucky 40356

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower or you own property contiguous to the property where the proposed tower will be located.

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

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

Please refer to case number 2005-00449 in your correspondence.



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:
Kelly G. a Lisa M. Ramsey
6917 Harrodsburg Rd.
Nicholasville, KY 40356

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☒ Addressee

B. Received by (Printed Name) Jeff Ramsey
C. Date of Delivery 11-15-5

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) 7004 0750 0001 2351 0250

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 14, 2005

Via Certified Mail
Honorable Darrell BeShears
Pulaski County Judge Executive
Courthouse
100 North Main Street
Somerset, Kentucky 42501

RE: Public Notice - Public Service Commission of Kentucky
Case No. 2005-00449

Bluegrass Wireless LLC is applying to the Public Service Commission of Kentucky (the Commission") for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular radio telecommunications service in rural service area (RSA) #6 in Pulaski County. The facility will include a 240 ft. tower and an equipment shelter to be located at 680 John Gover Lane, Bronston, Kentucky, 42518. A map showing the location of the proposed new facility is enclosed.

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

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2005-00449 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP

Kerry W. Ingle
Paralegal

enclosure

KWI

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:

Hon. Darrell Beshears
Pulaski Co. Judge Executive
Courthouse
100 N. Main St.
Somerset, KY 42501

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Beverly Hargis ☐ Agent ☐ Addressee

B. Received by (Printed Name) Beverly Hargis
C. Date of Delivery 11-16

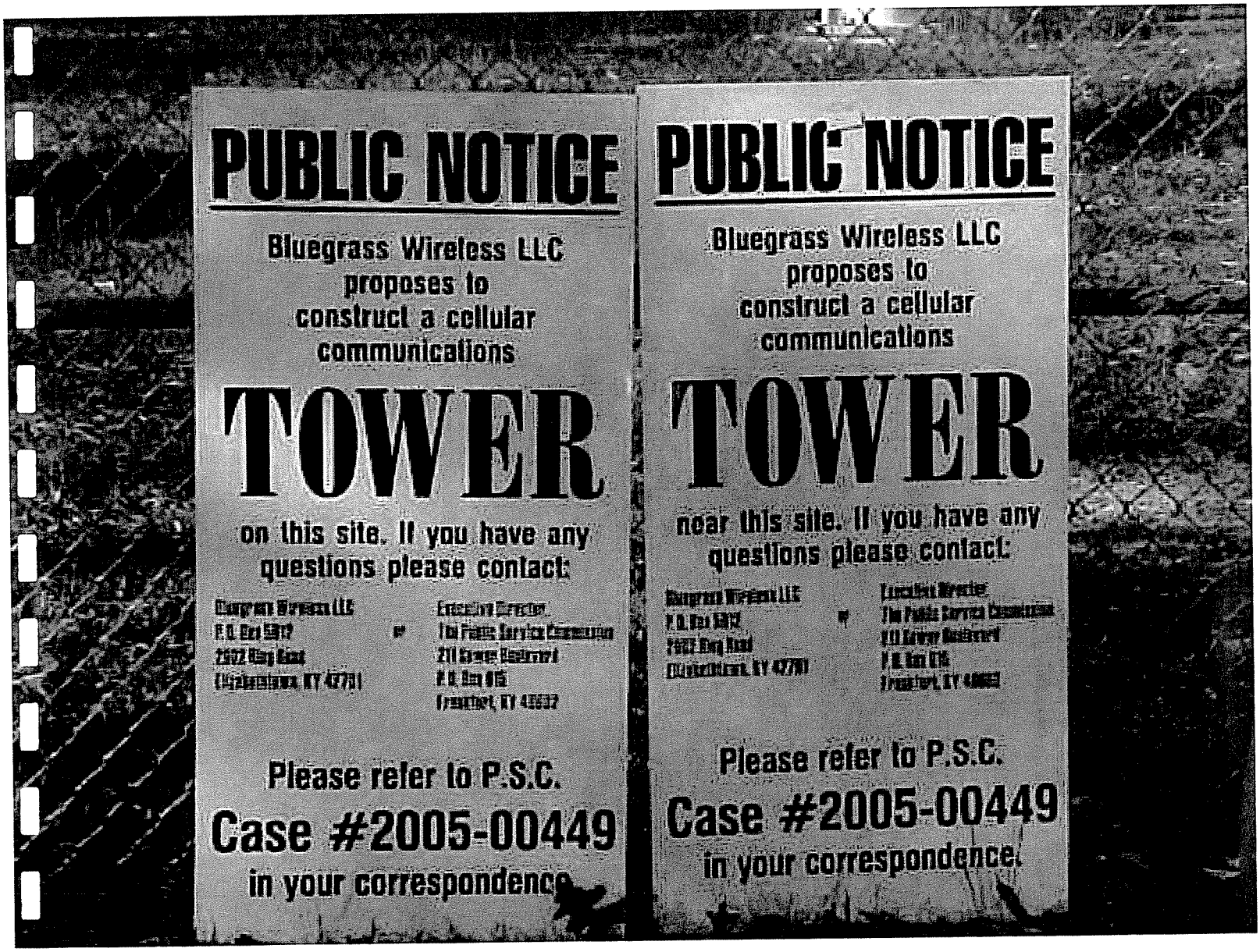
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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) 7004 0750 0001 2351 0243

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


PUBLIC NOTICE
Bluegrass Wireless LLC
proposes to
construct a cellular
communications
TOWER
on this site. If you have any
questions please contact:
Bluegrass Wireless LLC
P.O. Box 5312
2502 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 #2005-00449
in your correspondence
PUBLIC NOTICE
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P.O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
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in your correspondence.

AFFIDAVIT OF PUBLICATION

I, Jessica Mullins, of the Commonwealth Journal, a legal newspaper holding a second-class mailing permit, published daily except Mondays in Somerset, county of Pulaski, Commonwealth of Kentucky, do swear and subscribe that the attached proof of publication of a

☒ legal notice, as required and prescribed by KRS

☐ paid advertisement

was published in said newspaper in the issue of November 13 and 16

for which the sum of $ 120.00 is due and payable.

Signed: Jessica Mullins

Title: Classified Ad Manager

Subscribed and sworn to before me, a notary public for the County of Pulaski, Commonwealth of Kentucky, this 16 day of November, 20 05.

Brenda Hackney

My commission expires August 19, 2006

(Seal)

y's Paper for Auction
e www.godbyrealty.c

Century 21
& Auction Co.
Ste. #1, Somerset, KY 42502
*** 800-678-8160
Auction At:
or www.godbyrealty.com

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LOT
19 AT 12 NO
WELL EST
SON VALL
E. Hwy. 80, take
Rd. (at Nelson
go 1 6/10 mi
he Subdivision,
right. WATCH
OWNERS OF THIS
R HOME
OPERTY

Mobile Home & Nice Lot
Campground Rd. HWY 39 area. $40,000. (606)679-0078

****Owner Financed****
2002 Fleetwood double-wide with lot. Huge bedrooms, 2 full baths, fireplace and central heat and air. $5000 down. $575 mth. 385 Cedar Bluff Shores. 305-5449

440 Lots & Acreage

Wooded Creek Side Lots
2 mi. W. of Somerset, 636-6701 or 875-4936

Central Lake Area Lots
Hopeful School House Rd. Nancy Exit #78. 871-7303

21 Half Acre
Building Lots in Nancy. Some Restrictions. 636-4186 or 305-5984

NOTICE

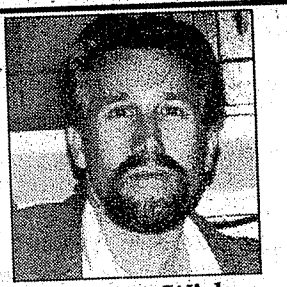
Bluegrass Wireless LLC is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #6 of the Commonwealth of Kentucky (Bronston Cell Site). The facility is a 240-foot tower and an equipment shelter to be located at 680 John Gover Lane, Bronston, Kentucky 42518. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2005-00449 in your correspondence.

SOCIAL SECURITY
DISABILITY AND SSI

DISABILITY CLAIMS SERVICE
(Social Security & SSI Claims)
Retired Social Security Supervisor, 32 Years Experience. I know how the system works and can help you with your claim. Don't miss out on benefits you may be due. For a FREE consultation on your claim, come by and visit or phone.

Dale Walker or Bruce Smith
Disability Claims Service,
Rose Bookkeeping Bldg.
412 Master Street, Corbin, Ky. 40701
1(800)601-1874 or (606)526-0247

IF WE DON'T WIN – YOU DON'T PAY



With Warmest Wishes
Special thoughts and
loving pride because it's
your Birthday Jimmy
Dandy and because you're
you.
Happy Birthday
Jim Dandy
Love always Peaches

Office Space

Far
A
Saturda
1

--- FARM ITEM
- Vicon 7' Disc Mowe
- MF 265 Tractor (Die
- 2 Kewanee Farm Wa
- Kuhn Hay Fluffer
- 6' Bushhog
- JD 330 Round Baler
- Taylorway Lift Disc

730 Recreational Vehicles

1994 Stratos F/S 284
18 ft w/ trailer. 12-24 volt 150 hp trolling motor- dual live well eagle fish finder- fully loaded boat runs great- nice. $7000 606-382-5045.

2004 Pontoon
Starcraft 20' Fish, 40HP Mercury 4 stroke w/ 2yr warranty. Aluminum trailer. Like new, less than 12 hrs. $12,900. Call 636-4141

750 Motorcycles

For Sale
2004 Honda Rebel 250. Excell. Cond. Excell. Mi. Serious Inquiries only. 679-4280

2005 Honda VTX.
1300 C, black, custom seat, detachable sissy bar. 1700 miles, paid $10,700, must sell $6800. (270)343-2434

2004 Yamaha YZF 600R
3500 mi., Two Brother's Exhaust pipe, Blue & Fast! Rebuilt Title $4,000. Call (606) 305-9428 Leave a message.

2004 Yamaha R6
600cc Sport Bike. Good Cond. 5500 mi. Red, white, & black. Yoshi pipe. $6000 obo. 875-7462

750 Motorcycles

2003 RM 250
Dirt bike. Lots of new parts, excellent condition. $3000 OBO. Call 875-1337.

Honda 2002 Shadow 750 Spirit
4000 mi. Garage kept, exc. cond. $1000 worth of extras. Selling price $4199. Must Sell. Make offer 606-305-0414

New 2005 Honda Spirit
Only rode once. Less than 10 mi. on bike. Take over payments or cash. 606-271-9140 or 606-271-7160

NOTICE

Bluegrass Wireless LLC is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #6 of the Commonwealth of Kentucky (Bronston Cell Site). The facility is a 240-foot tower and an equipment shelter to be located at 680 John Gover Lane, Bronston, Kentucky 42518. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2005-00449 in your correspondence.

NOTICE

TO THE UNKNOWN SPOUSE, if any, AND UNKNOWN HEIRS, if any, OF **MITCHELL LYONS, FRONA LYONS** AND/OR **ETHEL LYONS** ENTITLED TO AND/OR CLAIMING AN INTEREST IN AND/OR TITLE TO certain Property located in Pulaski County, Kentucky, which was owned by the late MITCHELL LYONS.

A civil action has been filed in the Pulaski County Circuit Court involving the property stated above in which the aforementioned OWNERS, HEIRS OR SPOUSES may have an interest

801 Specialized Services

NOTICE

Bluegrass Wireless LLC is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #6 of the Commonwealth of Kentucky (Norwood Cell Site). The facility is a 240-foot tower and an equipment shelter to be located at 74 Reid Mill Road, Somerset, Kentucky 42503. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2005-00438 in your correspondence.

HOROSCOPE

FOR MONDAY, NOV. 14

IF YOU WERE BORN TODAY The word casual is not in your vocabulary. You're careful, precise, thorough and caring. Your curiosity about everything makes you observant. In a given situation, you see what is needed and know how to provide it. Be flexible with changes coming your way this year. Something as significant as whatever took place in 1996-97 might happen.

•••

SCORPIO (Oct. 23 to Nov. 21) It's hard to please partners and close friends today. People are a bit prickly. It's the Full Moon. Don't take things personally.

SAGITTARIUS (Nov. 22 to Dec. 21) Don't let the comments of others confirm your worst fears about yourself. This Full Moon (it peaks tomorrow) shakes your self-confidence.

CAPRICORN (Dec. 22 to Jan. 19) Tension between you and others is likely,

803 Cleaning S

805 Constructic

ADVE
Separate struction Colle

will be Somerset of Somer prevailin Novembe office publ
The COI be examin
- City Verno
- Vaugh St., M
- F.W. Suite
- F.W. Circle

Copies MENT ma Vaughn Engineer P.O. Box 40965, up able depo

Moon peak

TAURU
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GEMIN
extra-patie Tomorrow's to your job (Nothing a

CANCE
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LEO (J
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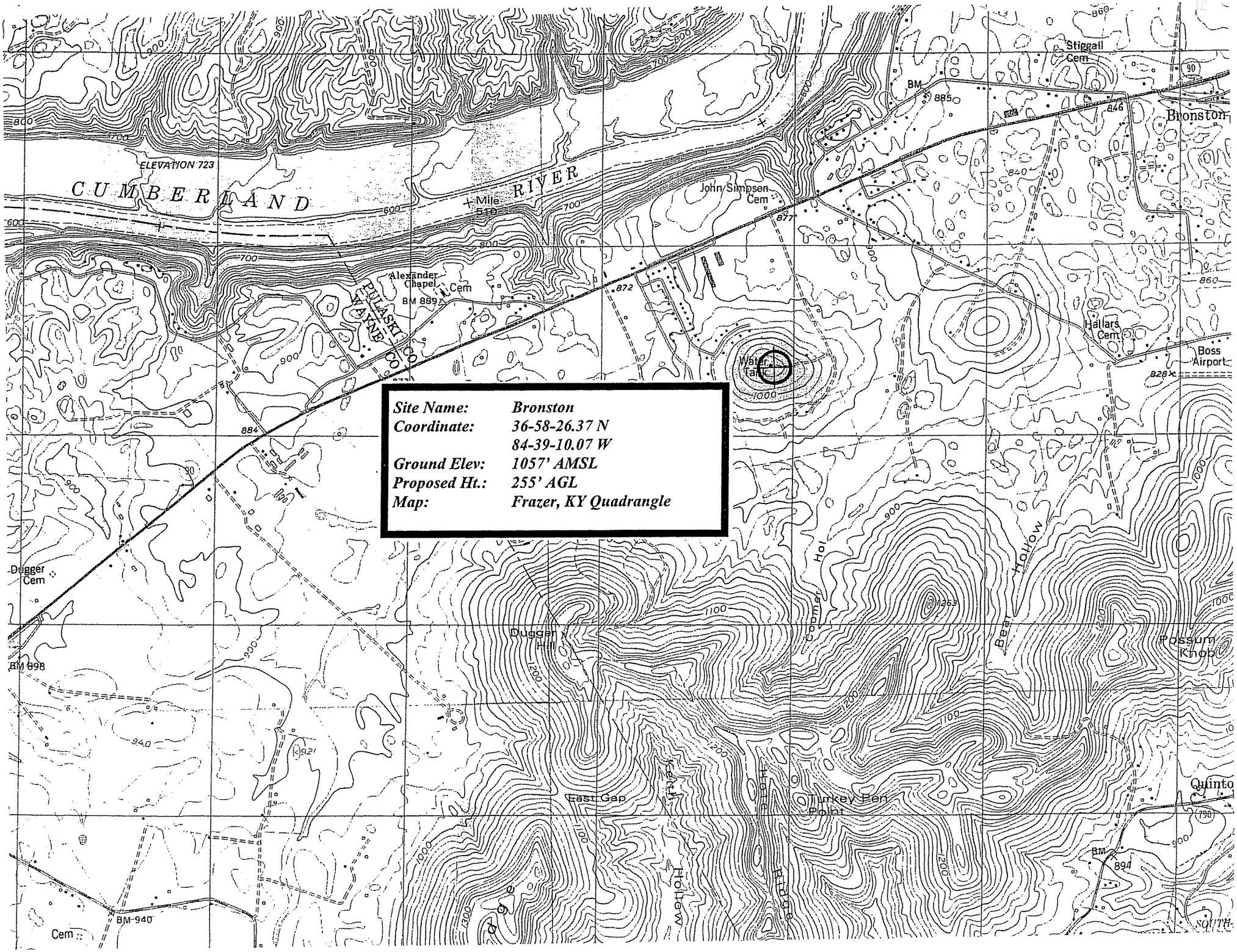
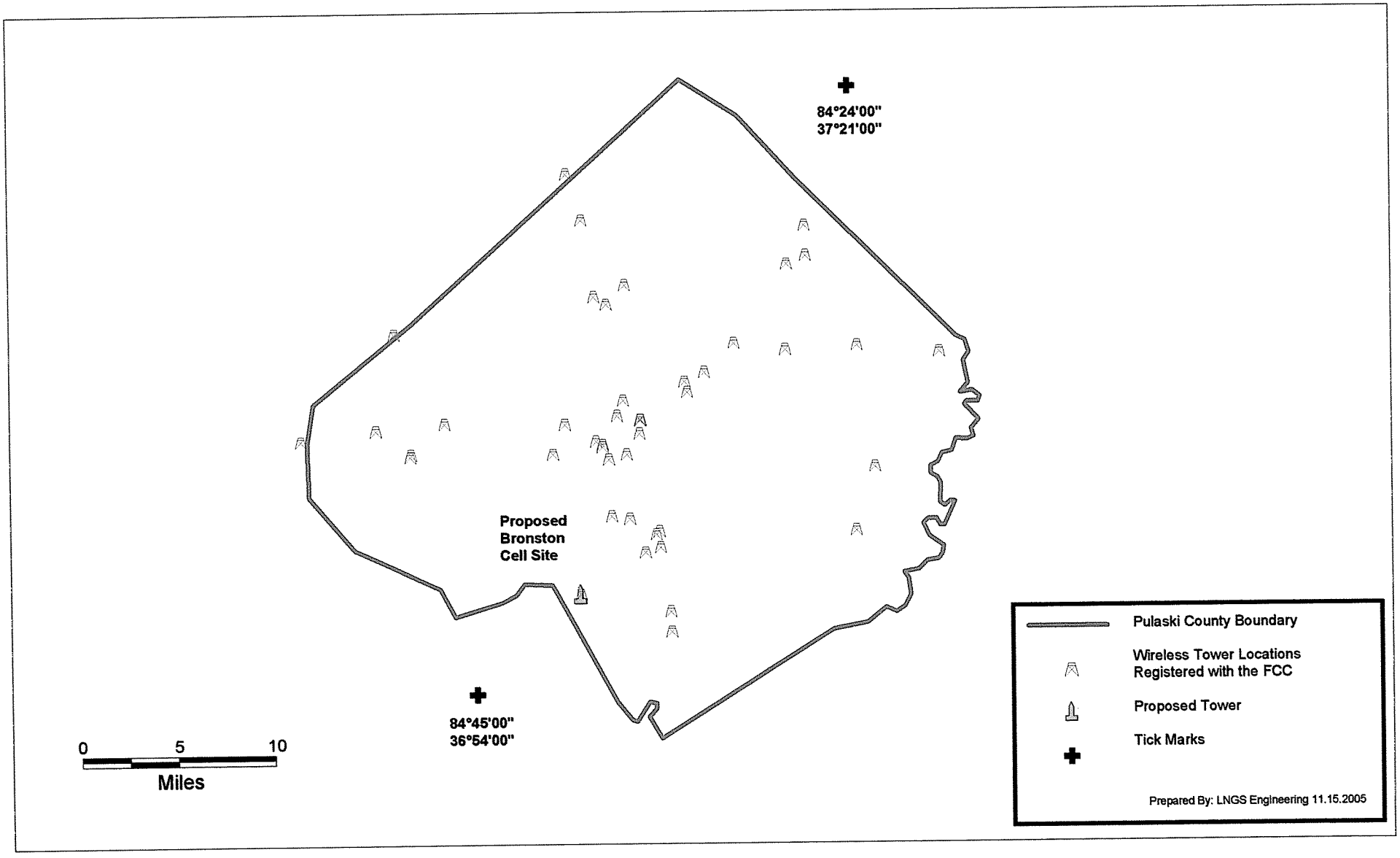

CUMBERLAND RIVER
ELEVATION 723
Mile 519
Stiggall Cem
Bronston
John Simpson Cem
Alexander Chapel Cem
BM 889
PULASKI CO
WAYNE CO
Water Tank
Hallars Cem
Boss Airport
Dugger Cem
Dugger Hill
BM 898
East Gap
Turkey Pen Point
Possum Knob
Quinto
BM 894
BM 940
Cem
Site Name: Bronston
Coordinate: 36-58-26.37 N
84-39-10.07 W
Ground Elev: 1057' AMSL
Proposed Ht.: 255' AGL
Map: Frazer, KY Quadrangle


84°24'00"
37°21'00"
Proposed
Bronston
Cell Site
84°45'00"
36°54'00"
0
5
10
Miles
Pulaski County Boundary
Wireless Tower Locations
Registered with the FCC
Proposed Tower
Tick Marks
Prepared By: LNGS Engineering 11.15.2005

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

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1044043	37-10-03 N	84-49-30 N	MINTONVILLE, KY	KENTUCKY AUTHORITY FOR EDUCATIONAL TELEVISION DBA = WKSO TV
1018905	37-14-47.9 N	84-26-28.5 N	SOMERSET, KY	Global Tower, LLC
1035924	37-05-00 N	84-37-52 N	SOMERSET, KY	NORFOLK SOUTHERN CORPORATION
1042206	37-08-17 N	84-32-08 N	SOMERSET, KY	Global Tower, LLC
1042811	37-05-06 N	84-37-52 N	SOMERSET, KY	Sprintcom, Inc.
1043118	37-04-41 N	84-40-39 N	SOMERSET, KY	First Radio Inc
1043456	37-04-03 N	84-22-37 N	MT VICTORY, KY	
1043625	37-06-10 N	84-35-45 N	SOMERSET, KY	CELLULAR PHONE OF KENTUCKY DBA = RAMCELL
1043628	36-58-25 N	84-39-09 N	BURNSIDE, KY	CELLULAR PHONE OF KENTUCKY, INC. DBA = RAMCELL
1043674	37-07-03 N	84-36-42 N	SOMERSET, KY	Capstar Radio Operating Company
1043675	37-09-16 N	84-27-35 N	SHOPVILLE/STAB, KY	Capstar Radio Operating Company
1043676	37-01-46.6 N	84-36-22.9 N	BURNSIDE, KY	Capstar Radio Operating Company
1043677	36-57-38 N	84-34-07 N	TATEVILLE, KY	Capstar Radio Operating Company
1043977	37-01-05 N	84-34-54 N	BURNSIDE, KY	C&C TOWER RENTAL,LLC
1043979	37-06-12 N	84-35-43 N	SOMERSET, KY	Falcon Community Cable, LP, a Delaware Limited Partnership
1044514	37-00-30 N	84-34-40 N	BURNSIDE, KY	EAST KENTUCKY POWER COOPERATIVE, INC
1044771	37-05-15 N	84-38-14 N	SOMERSET, KY	CUMBERLAND COMMUNICATIONS INC DBA = WTLO RADIO
1044797	37-01-13 N	84-23-41 N	MOUNT VICTORY, KY	KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM
1047763	37-17-09.6 N	84-39-48.6 N	EUBANKS, KY	Global Tower, LLC
1047989	37-06-10 N	84-35-45 N	SOMERSET, KY	DEAL, DOUG
1051877	37-07-52 N	84-33-15 N	SOMERSET, KY	Somerset Educational Broadcasting Foundation
1203424	37-04-42.3 N	84-48-36.8 N	Nancy, KY	Global Tower, LLC
1204492	37-06-22.2 N	84-37-02.7 N	Somerset, KY	Epperson Air Conditioning & Heating
1208691	37-04-40.4 N	84-36-30.8 N	SOMERSET, KY	Norfolk Southern Railway Company
1219832	37-05-35.3 N	84-35-47.8 N	Somerset, KY	Commonwealth of Kentucky
1229865	37-09-08.3 N	84-18-58.5 N	Somerset, KY	Global Tower LLC
1229869	37-11-39.7 N	84-38-18.2 N	Science Hill, KY	Global Tower LLC
1230075	37-12-11.1 N	84-36-34.1 N	Science Hill, KY	American Tower through UNIsite, Inc.
1230266	37-09-26.4 N	84-23-34.2 N	Somerset, KY	Global Tower LLC
1230432	37-09-33.8 N	84-30-27.8 N	SOMERSET, KY	C&C TOWER RENTAL LLC
1230577	37-04-26.3 N	84-37-31.2 N	Somerset, KY	SBA Properties, Inc.
1231891	37-05-59.8 N	84-39-58.6 N	SOMERSET, KY	HEMPHILL CORPORATION
1231893	37-07-24.5 N	84-33-06.1 N	SOMERSET, KY	HEMPHILL CORPORATION
1232264	37-05-19.7 N	84-54-47.3 N	RUSSELL SPRINGS, KY	HEMPHILL CORPORATION
1232544	37-06-03.7 N	84-46-43.5 N	NANCY, KY	HEMPHILL CORPORATION
1232562	37-13-27.2 N	84-26-25.3 N	SOMERSET, KY	HEMPHILL CORPORATION
1232715	36-56-43.9 N	84-34-04.5 N	BURNSIDE, KY	HEMPHILL CORPORATION

Prepared By:
LNGS Engineering

11/15/2005

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FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1234158	37-00-16.3 N	84-35-30.8 N	Burnside, KY	East Kentucky Power Cooperative, Inc.
1234225	37-01-12.7 N	84-34-43.7 N	SOMERSET, KY	C&C TOWER RENTAL,LLC
1235212	37-06-12 N	84-35-46 N	Somerset, KY	Global Tower, LLC
1237226	37-11-19.3 N	84-37-36.3 N	Science Hill, KY	East Kentucky Power Cooperative, Inc.
1247464	37-06-03.7 N	84-46-43.5 N	Nancy, KY	Hemphill Corporation
1247918	37-07-24.6 N	84-33-06.1 N	Somerset, KY	Hemphill Corporation
1250130	37-04-36.3 N	84-48-38.8 N	Somerset, KY	Educational Media Foundation
1250175	37-01-54 N	84-37-23 N	Somerset, KY	Bluegrass Wireless LLC
1250182	37-15-04.9 N	84-38-58.4 N	Eubank, KY	Bluegrass Wireless LLC
1250183	37-13-03.8 N	84-27-29 N	Somerset, KY	Bluegrass Wireless LLC
1250184	37-05-46.4 N	84-50-33.9 N	Nancy, KY	Bluegrass Wireless LLC