

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:

**APPLICATION OF KENTUCKY RSA #4 CELLULAR
GENERAL PARTNERSHIP FOR ISSUANCE OF A
CERTIFICATE OF PUBLIC CONVENIENCE AND
NECESSITY TO CONSTRUCT A CELL SITE
(GRAVEL SWITCH) IN RURAL SERVICE AREA #4
(MARION COUNTY) OF THE COMMONWEALTH
OF KENTUCKY**

CASE NO. 2018-00178

**APPLICATION FOR A CERTIFICATE
OF PUBLIC CONVENIENCE AND NECESSITY (GRAVEL SWITCH)**

Kentucky RSA #4 Cellular General Partnership ("Kentucky RSA #4"), through counsel, pursuant to KRS 278.020 and 278.040 and 807 KAR 5:063, hereby submits this application for a certificate of public convenience and necessity to construct and operate a new 240 foot cell tower facility to provide cellular telephone service to be known as the Gravel Switch cell site in and for rural service area ("RSA") #4 of the Commonwealth of Kentucky, namely the counties of Anderson, Green, Hardin, Larue, Marion, Mercer, Nelson, Spencer, Taylor and Washington, Kentucky. The proposed cell tower facility will be located at 149 Preston Loop, Gravel Switch, Kentucky, 40328.

1. Pursuant to the FCC Order, Docket No. 08-165, dated November 18, 2009, ¶ 32, pp. 11 & 12, the Commission has 150 days to process this application for a certificate of public convenience and necessity to construct a cell tower facility. If the Commission fails to act upon this application within 150 days, then Kentucky RSA #4 may seek redress with the U.S. District Court for the Eastern District of Kentucky.¹

¹In the Matter of: Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B) to Ensure Timely Siting Review and to Preempt Under Section 253 State and Local Ordinances that Classify all Wireless Siting Proposals as Requiring a Variance, FCC Order, Docket No. 08-165, November 18, 2009, pp 11 and 12. ("Specifically, we find that a "reasonable period of time" is, presumptively 90 days to process personal wireless

2. Pursuant to 807 KAR 5:001 Sections 8(l) and (3), and 807 KAR 5:063, Kentucky RSA #4 states that it is a Kentucky general partnership whose full name and post office address are: Kentucky RSA #4 Cellular General Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701. An email address for Kentucky RSA #3 is tash@bluegrasscellular.com. A copy of the Certificate of Assumed Name as a General Partnership for Kentucky RSA #4 Cellular General Partnership is attached as Exhibit "A." This is the only document on file with the Kentucky Secretary of State that identifies all owners of Kentucky RSA #3 Cellular General Partnership.

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

4. Pursuant to 807 KAR 5:063 Section 1(1)(d), applicant is submitting as Exhibit "C" a geotechnical investigation report, signed and sealed by a professional engineer registered in Kentucky, that includes boring logs, foundation design recommendations, and a finding as to the susceptibility of the area surrounding the proposed site to flood hazard.

5. Pursuant to 807 KAR 5:063 Section 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 "D."

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

service facility siting applications requesting collocations, and, also presumptively, 150 days to process all other applications. (Relevant pages attached as Exhibit "M"). Accordingly, if State or local governments do not act upon applications within those timeframes, then a "failure to act" has occurred and personal wireless service providers may seek redress in a court of competent jurisdiction within 30 days, as provided in Section 332(c)(7)(B)(v)." See also Order Denying Motion for Reconsideration, issued August 4, 2010.

7. Pursuant to 807 KAR 5:063 Section 1(1)(g), experienced personnel will manage and operate the Gravel Switch cell site. The President of Bluegrass Cellular Inc., Mr. Ron Smith, is ultimately responsible for all construction and operations of the cellular system of Kentucky RSA #4, of which system the Gravel Switch cell site will be a part. Bluegrass Cellular Inc. provides management services to Kentucky RSA #4 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 twenty years. This extensive management experience with Bluegrass Cellular demonstrates Bluegrass Cellular Inc.'s management and technical ability to supervise the operations of a wireless carrier.

8. Pursuant to 807 KAR 5:063 Section 1(1)(g), World Tower Company, Inc. is responsible for the design specifications of the proposed tower (identified in Exhibit "C").

9. Pursuant to 807 KAR 5:063 Section 1(1)(h), a site development plan and survey, signed and sealed by a professional engineer registered in Kentucky, that shows the proposed location of the tower and all easements and existing structures within 500 feet of the proposed site on the property on which the tower will be located, and all easements and existing structures within 200 feet of the access drive, including the intersection with the public street system, is Exhibit "C."

10. Pursuant to 807 KAR 5:063 Section 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 "C."

11. Pursuant to 807 KAR 5:063 Section 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 "C."

12. Pursuant to 807 KAR 5:063 Section 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 "F."

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

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

15. Pursuant to 807 KAR 5:063 Section 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 "G."

16. Pursuant to 807 KAR 5:063 Section 1(1)(n), applicant's legal counsel hereby affirms that the Marion 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.

17. Pursuant to 807 KAR 5:063 Section 1(1)(o), a copy of the notice sent to the Marion County Judge Executive is Exhibit "H."

18. Pursuant to 807 KAR 5:063 Section 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.

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

(a) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Kentucky RSA #4 Cellular General Partnership proposes to construct a telecommunications tower on this site,***" including the addresses of the applicant and the Kentucky Public Service Commission, has been posted and shall remain in a visible location on the proposed site until final disposition of the application; and

(b) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Kentucky RSA #4 Cellular General Partnership proposes to construct a telecommunications tower near this site,***" including the addresses of the applicant and the Kentucky Public Service Commission, has been posted on the public road nearest the site.

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

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

21. Pursuant to 807 KAR 5:063 Section 1(1)(r), the cell site, which has been selected, is in a relatively undeveloped, rural area in Gravel Switch, Kentucky. Existing land uses are

characterized as agricultural. A photograph of the proposed site is included as Exhibit "A-2" to the geotechnical investigation report, attached hereto as Exhibit "C" hereto.

22. Pursuant to 807 KAR 5:063 Section 1(1)(s), Kentucky RSA #4 has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service to the area can be provided, and that there is no reasonably available opportunity to co-locate. Kentucky RSA #4 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.

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

24. 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 "L."

25. Pursuant to 807 KAR 5:063, Section 1(1)(c), attached as Exhibit "M" is a copy of the application to, and authorization from, the Federal Communications Commission.

26. No reasonably available telecommunications tower, or other suitable structure capable of supporting the cellular facilities of Kentucky RSA #4 and which would provide adequate service to the area exists.

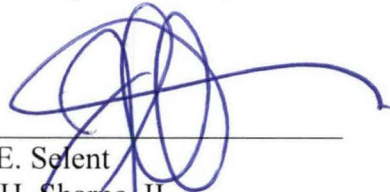
27. Correspondence and communication with regard to this application should be addressed to:

John E. Selent
Felix H. Sharpe, II
DINSMORE & SHOHL LLP
101 South Fifth Street
Suite 2500
Louisville, KY 40202
(502) 540-2300
john.selent@dinsmore.com
felix.sharpe@dinsmore.com

WHEREFORE, Kentucky RSA #4 Cellular General Cellular Partnership requests the
Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the Gravel
Switch cell site; and
2. Granting all other relief as appropriate.

Respectfully submitted,



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12/29/89

AGREEMENT
OF
KENTUCKY RSA 4 CELLULAR GENERAL PARTNERSHIP

THIS GENERAL PARTNERSHIP AGREEMENT, is entered into by and among Brandenburg Telephone Co., Inc., a Kentucky corporation, and South Central Rural Telephone Cooperative Corporation, Inc., a Kentucky corporation, as the general partners, and the persons (if any) who become general partners, as provided herein ("Partners").

W I T N E S S E T H:

WHEREAS, the parties hereto desire to form a general partnership under the Laws of the Commonwealth of Kentucky, for the purposes and upon the terms stated herein; and

WHEREAS, Brandenburg Telephone Co., Inc. has been selected in a lottery conducted December 20, 1989 by the Federal Communications Commission ("FCC") in the process of considering applications to construct a domestic public cellular radio telecommunications system, "the Cellular System," to serve the Kentucky 4-Spencer Rural Service Area (the "RSA"); and

WHEREAS, the Partners have entered into a "Kentucky RSA 4 Settlement Agreement" ("Settlement Agreement") on June 8, 1989, concerning the settlement of mutually exclusive applications for the construction permit (the "permit").

I. ORGANIZATION MATTERS

1.1 Formation.

The General Partners have associated themselves in the formation of the Partnership as a general partnership pursuant to the provisions of the Kentucky Act. Except as expressly provided herein to the contrary, the rights and obligations of

Partners and the administration and termination of the Partnership shall be governed by the Kentucky Act. The Partnership Interest of any Partner shall be personal property for all purposes.

1.2 Name

The name of the Partnership shall be, and the business of the Partnership shall be conducted under the name, "Kentucky RSA 4 Cellular General Partnership". The Partnership's business may be conducted under any other name or names deemed advisable by the Partners, including the name of any Partner.

1.3 Principal Office.

The principal office and address of the Partnership shall be 332 Broadway, Brandenburg, Kentucky 40108, or such other place as the Partners may from time to time designate. The Partnership may maintain such offices at such other place or places as the Partners deem advisable.

1.4 Term.

The Partnership shall continue in existence until termination of the Partnership in accordance with the provisions of Article XI.

II. DEFINITIONS

The following definitions shall for all purposes, unless otherwise clearly indicated to the contrary, apply to the terms used in this Agreement.

"Agreed Value" means the fair market value of any Partnership property as determined from time to time by a Majority

Interest of the Partners using such reasonable method of valuation as may be adopted by the Partners. Unless another Agreed Value is fixed by the Partners for any item of Partnership property, the Agreed Value of such property shall be deemed to equal its adjusted basis for federal income tax purposes.

"Agreement" means this Agreement of General Partnership, as it may be amended or supplemented from time to time.

"Bankruptcy" shall be deemed to have occurred with respect to any Partner 60 days after the happening of any of the following: (a) the filing of an application by the Partner for, or a consent to, the appointment of a trustee of the Partner's assets, (b) the filing by the Partner of a voluntary petition in bankruptcy or the filing of a pleading in any court of record admitting in writing the Partner's inability to pay the Partner's debts as they become due, (c) the making by the Partner of a general assignment for the benefit of creditors, (d) the filing by the Partner of an answer admitting the material allegations, of, or consenting to, or defaulting in answering, a bankruptcy petition filed against the Partner in any bankruptcy proceeding, or (e) the entry of an order, judgment, or decree by any court of competent jurisdiction adjudicating the Partner a bankrupt or appointing a trustee of the Partner's assets, and such order, judgment, or decree continuing unstayed and in effect for such period of 60 days.

"Capital Account" means the capital account maintained for a Partner pursuant to Section 4.4.

"Capital Contribution" means any cash or other property which a Partner contributes to the Partnership pursuant to Sections 4.2 or 4.3.

"Carrying Value" means, with respect to any property of the Partnership, the Agreed Value of such property at the time of its contribution to the Partnership, or as fixed from time to time in accordance with Section 4.4(e), reduced (but not below zero) by all depreciation and cost recovery deductions charged to the Partners' Capital Accounts pursuant to Section 4.4(c) with respect to such property and by any other charges for sales, retirements and other dispositions of such property, as of the time of determination.

"Code" means the Internal Revenue Code of 1986, as amended and in effect from time to time.

"Excess Loss Account" means, with respect to any Partner, an amount equal to the aggregate losses allocated to such Partner pursuant to Section 5.2 less the aggregate income allocated to such Partner pursuant to Section 5.2. A transferee of a Partnership Interest will succeed to the Excess Loss Account with respect to the Partnership Interest transferred.

"General Partner" means any of the Partners listed on the first page, or admitted by a vote of the Partners in accordance with Article X.

"Majority Interest" means the owners of more than 50% of the Percentage Interests owned by the Partners.

"Management Committee" means the committee described in Section 6.1(a).

"Net Agreed Value" means (a) in the case of any property contributed to the Partnership, the Agreed Value of such property reduced by any indebtedness, either assumed by the Partnership upon such contribution or to which such property is subject when contributed, and (b) in the case of any property distributed to a Partner, the Agreed Value of such property at the time such property is distributed, reduced by any indebtedness either assumed by such Partner upon such distribution or to which such property is subject at the time of distribution.

"Partner" means any of the General Partners.

"Partnership" means the general partnership established by this Agreement.

"Partnership Interest" means the Percentage Interest of a Partner in the Partnership.

"Percentage Interest" means initially the amount specified in Section 4.1. After the first capital contributions of the Partners have been made, the Percentage Interest held by each Partner in the Partnership shall equal the percentage derived by multiplying the balance of the Partner's capital account by one hundred and then dividing by the total balance of the capital accounts of all of the Partners.

"Person" means an individual or a corporation, partnership, trust, unincorporated organization, association or other entity.

"Recapture Income" means any gain that is not capital gain recognized by the Partnership or, in the case of gain required by the Code to be computed separately by each Partner, by a Partner (but computed without regard to any adjustment required by Section 734 or Section 743 of the Code) upon the disposition of any property or asset of the Partnership.

"Kentucky Act" means the Kentucky Uniform Partnership Act, KRS 362.175 to KRS 362.355, as it may be amended from time to time.

"Unrealized Gain" attributable to an item of Partnership property means, as of any date of determination, the excess, if any, of the Agreed Value of such property as of such date of determination over the Carrying Value of such property as of such date of determination (prior to any adjustment to be made pursuant to Section 4.4(e) as of such date).

"Unrealized Loss" attributable to an item of Partnership property means, as of any date of determination, the excess, if any, of the Carrying Value of such property as of such date of determination (prior to any adjustment to be made pursuant to Section 4.4(e) as of such date) over the Agreed Value of such property as of such date of determination.

III. PURPOSE

The purpose and business of the Partnership shall be to engage in any lawful business in which a general partnership formed under the Kentucky Act may engage, including, without

limitation, the ownership of cellular radio telecommunications systems.

IV. CAPITAL CONTRIBUTIONS

4.1 Percentage Of Interest.

Each Partner shall have an initial percentage interest in the Partnership as described in the following schedule:

<u>Partner</u>	<u>Percentage Interest</u>
Brandenburg Telephone Co., Inc.	50%
South Central Rural Telephone Cooperative Corporation, Inc.	50%

4.2 Initial Capital Contribution.

Each Partner shall contribute one-thousand dollars (\$1,000.00) to the Partnership as an initial capital contribution.

4.3 Partners' Additional Contributions.

(a) Additional Capital Contributions. From time to time additional capital may be required to be invested by the Partnership to fund expansion or operation of Cellular Service. If the Management Committee determines that additional capital is so needed, each Partner shall be entitled to provide its share of additional capital in proportion to its then current Partnership Interest. This additional funding shall be due and payable on the date set forth in a written notice to each Partner from the Partnership requesting such additional Capital Contribution, which date shall not be less than 60 days from the date of the notice.

(b) Failure to Make Capital Contributions. Should any Partner (a "Nonparticipating partner") make a portion but not all of its initial Capital Contribution or any subsequent additional Capital Contribution, or fail to pay such contributions when due, the other Partners may contribute pro rata, according to their then current respective Partnership Interests, an aggregate amount equal to the Capital Contribution declined by the Nonparticipating Partner. In such event, the Nonparticipating Partner shall forfeit its right to select a person to serve on the Management Committee.

(c) Capital Contributions in Cash. Unless the Management Committee agrees to permit an in kind (property) contribution by a Partner by the affirmative vote of One Hundred percent of its members, funding of both initial and additional Capital Contributions to the Partnership shall be in cash and not real or personal property.

4.4 Capital Accounts.

(a) The Partnership shall maintain for each Partner a separate Capital Account. The initial balance of the Capital Account of the General Partners shall be zero.

(b) Each Partner's Capital Account shall be increased by (i) the cash amount or Net Agreed Value of all Capital Contributions made by such Partner to the Partnership pursuant to this Agreement and (ii) all items of Partnership income and gain computed in accordance with Section 4.4(c) and allocated to such Partner pursuant to Article V and decreased by (iii) the cash

amount or Carrying Value of all distributions of cash or property made to such Partner pursuant to this Agreement and (iv) all items of Partnership deduction and loss computed in accordance with Section 4.4(c) and allocated to such Partner pursuant to Article V.

(c) For purposes of computing the amount of any item of income, gain, deduction or loss to be reflected in the Partners' Capital Accounts, the determination, recognition and classification of such items shall be the same as its determination, recognition and classification for federal income tax purposes, with the following adjustments:

(i) Any income of the Partnership that is exempt from federal income tax and not otherwise taken into account under this Section 4.4(c) shall be considered an item of income;

(ii) Any expenditures of the Partnership described in Section 705(a)(2)(B) of the Code or treated as Section 705(a)(2)(B) expenditures pursuant to Treasury Regulation Section 1.704-1(b)(2)(iv)(i), and not otherwise taken into account under this Section 4.4(c), shall be considered a deduction;

(iii) Gain or loss resulting from any disposition of Partnership property with respect to which gain or loss is recognized for federal income tax purposes shall be computed with reference to the Carrying Value of the property disposed of, rather than its adjusted basis; and

(iv) The depreciation, amortization, or other cost recovery deductions with respect to an item of Partnership property shall be computed with reference to the Agreed Value of such property rather than its adjusted basis.

(d) A transferee of a Partnership Interest will succeed to the Capital Account relating to the Partnership Interest transferred.

(e) Immediately prior to the distribution of any Partnership property other than money, the Capital Accounts of all Partners (and the Carrying Value of all Partnership property) may, in the discretion of the Management Committee, be adjusted (consistent with the provisions hereof and Section 704 of the Code) upwards or downwards to reflect any Unrealized Gain or Unrealized Loss attributable to such Partnership property (as if such Unrealized Gain or Unrealized Loss had been recognized upon an actual sale of such property, immediately prior to such issuance, and had been allocated to the Partners, at such time, pursuant to Article V).

(f) The foregoing provisions and the other provisions of this Agreement relating to the maintenance of Capital Accounts are intended to comply with Treasury Regulation Section 1.704-1(b), and shall be interpreted and applied in a manner consistent with such regulations. To the extent that any provision required by the Treasury Regulations is not contained in this Agreement, that provision is hereby incorporated by reference. If the Management Committee determines that it is prudent to modify the

manner in which the Capital Accounts are computed or maintained in order to comply with such regulations, the Management Committee may make such modification, provided that such modification is not likely to have a material effect on the amounts distributable to any Partner pursuant to Section 13.3 upon dissolution of the Partnership.

4.5 Negative Capital Account.

Upon the dissolution and termination of the Partnership, each Partner shall contribute to the Partnership an amount equal to the deficit balance in its capital account, if any.

4.6 Interest.

No interest shall be paid by the Partnership on Capital Contributions or on balances in Partners' capital accounts.

4.7 No Withdrawal.

A Partner shall not be entitled to withdraw any part of its Capital Contribution or its Capital Account or to receive any distribution from the Partnership, except as provided in Section 5.3 and Article XI.

4.8 Loans from Partners.

Loans by a Partner to the Partnership shall not be considered Capital Contributions.

V. ALLOCATIONS AND DISTRIBUTIONS

5.1 Income and Loss.

(a) In determining the rights of the Partners among themselves and for financial accounting purposes, each item of income, gain, loss, deduction and credit shall be credited or

charged, as the case may be, among the Partners in accordance with their respective Percentage Interests.

(b) For federal income tax purposes, except as otherwise provided in Section 5.2, each item of income, gain, loss, deduction and credit of the Partnership shall be allocated among the Partners in accordance with their respective Percentage Interests.

5.2 Other Tax Allocations.

(a) Income, gain, loss, and deduction with respect to any property contributed to the Partnership shall, solely for federal income tax purposes, be allocated among the Partners so as to take into account any difference between the Agreed Value of such property and its adjusted basis on the date of such contribution, in accordance with Section 704(c) of the Code. If the Carrying Value of any Partnership property is adjusted pursuant to Section 4.4(e), subsequent allocations of income, gain, loss, and deduction with respect to such property shall take account of any variation between the adjusted basis of such property and its Carrying Value, in the same manner as provided for under Section 704(c) of the Code. All allocations under this Section 5.2(a) shall be made in such manner as the Management Committee may in its discretion determine reasonably reflects the requirements of the Code and the intention of this Agreement.

(b) To the extent of any Recapture Income resulting from the sale or other taxable disposition of a Partnership asset, the amount of any gain from such disposition allocated to (or recog-

nized by) a Partner (or its successor in interest) for federal income tax purposes pursuant to the above provisions shall be deemed to be Recapture Income to the extent such Partner has been allocated or has claimed any deduction directly or indirectly giving rise to the treatment of such gain as Recapture Income.

(c) In the event of the transfer of a Partnership Interest during a year, each item of Partnership income, gain, loss, deduction and credit attributable to the transferred Partnership Interest shall, for federal income tax purposes, be prorated between the transferor and transferee on a daily or other reasonable basis, as required by Section 706 of the Code; provided, however, that gain on a sale or other disposition of all or a substantial portion of the assets of the Partnership shall be allocated among the Partners in proportion to their Partnership Interests on the date of sale.

(d) If the Percentage Interest of any Partner is changed during a taxable year such Partner's share of taxable income or loss shall be determined for federal income tax purposes by taking into account his varying Percentage Interests in the Partnership during the taxable year on a daily or other reasonable basis as required by Section 706 of the Code.

(e) It is intended that the allocations in this Article V effect an allocation for federal income tax purposes in a manner consistent with the Code and comply with any limitations or restrictions therein. The Management Committee shall have complete discretion to make the allocations pursuant to this

Article V in any manner consistent with the Code. The Majority Interest of the Partners may amend the provisions of this Agreement in accordance with Article XII as appropriate as a result of the promulgation of final treasury regulations under any section of the Code, if in the opinion of counsel such an amendment is advisable to reflect allocations among the Partners consistent with those regulations.

5.3 Current Distributions.

(a) The Management Committee shall review the Partnership's accounts at the end of each calendar quarter to determine whether distributions are appropriate. The Management Committee may make such distributions as they in their discretion deem appropriate, without being limited to current or accumulated income or gains. All such distributions shall be made to the Partners in accordance with the Percentage Interests of such Partners.

(b) Any amounts paid pursuant to Section 6.2 shall not be deemed to be distributions for purposes of this Agreement.

VI. MANAGEMENT, OPERATION OF BUSINESS AND
PARTNERSHIP POWERS

6.1 Management.

(a) The Partnership shall be managed by a Management Committee. Each Partner with a partnership interest equal to or greater than fifty percent shall be entitled to select one person to serve on the Management Committee subject to Section 9.1(c). Unless, otherwise provided in this Agreement all action taken by the Management Committee shall be by simple majority vote of the members of the Management Committee. The Management

Committee shall hire an operations manager to manage the day to day operations of the Cellular System.

(b) Partnership Powers. In furtherance of the business purpose specified in Article III and subject to the limitations set forth in this Agreement, the Partnership, and the Management Committee on behalf of the Partnership, shall be empowered to do or cause to be done any and all acts reasonably deemed by the Management Committee to be necessary or appropriate in furtherance of the purposes of the Partnership or forbear from doing any act if the Management Committee reasonably deems such forbearance necessary or appropriate in furtherance of the purposes of the Partnership, including without limitation, the power and authority:

(1) To enter into, perform and carry out contracts and agreements of every kind necessary or incidental to the accomplishment of the Partnership's purposes, including, without limitation, contracts and agreements with any Partner and the affiliates of any Partner, and to take or omit such other or further action in connection with the Partnership's business as may be reasonably necessary or desirable in the opinion of the Management Committee to further the purposes of the Partnership; provided, however, that (i) any transaction between the Partnership and any of the Partners or any of their affiliates shall be documented and shall become part of the records of the Partnership; and (ii) any such contracts or agreements shall be on terms no

more favorable to such Partner or affiliate than the terms available to the Partnership from third parties;

(2) To borrow from banks and other lenders on such terms and conditions as shall be approved by the Management Committee and to secure any such borrowings by mortgaging, pledging or assigning assets and revenues of the Partnership to the extent deemed necessary or desirable by the Management Committee;

(3) To invest such funds as are temporarily not required for Partnership purposes in debt obligations selected by the Management Committee including government securities, certificates of deposit of commercial banks (domestic or foreign), commercial paper, bankers' acceptances and other money market instruments; and

(4) To carry on any other activities necessary to, in connection with or incidental to any of the foregoing.

6.2 Management Compensation and Reimbursement of the Partners

(a) Operating and Management Expenses. The Partners may be reimbursed by the Partnership monthly for any reasonable and necessary expenses incurred by the Partners on behalf of the Partnership in providing cellular service, including reasonable and necessary administrative and general overhead expenses, including, but not limited to, marketing, maintenance, message charges, facilities, engineering, customary legal, accounting and audit fees, development and implementation of billing procedures, expenses of preparing tax returns and reports, taxes, travel,

office rent, telephone, salaries (including social security, relief, pensions and other benefits), and other incidental business expenses incurred by the Partners on behalf of the Partnership in connection with the provision of Cellular Service. Reimbursement must be approved by the Management Committee.

(b) Powers of the Management Committee. In addition to those powers vested pursuant to Section 6.1(b) and subject to the limitations set forth in this Agreement, the Management Committee hereby is vested with the power to:

(1) Manage, supervise and conduct the affairs of the Partnership;

(2) Make all elections, investigations, evaluations and decisions, binding the Partnership thereby, that may be necessary or appropriate in connection with the business purposes of the Partnership;

(3) Incur obligations or make payments on behalf of the Partnership in its own name or in the name of the Partnership;

(4) Execute all instruments of all kind or character which the Management Committee in its discretion shall deem necessary or appropriate in connection with the business purposes of the Partnership;

(5) Enter into agreements with other providers of Cellular Service (including Affiliates of the Management Committee) to obtain switching services when, in the

judgment of the Management Committee, such agreements are in the best interest of the Partnership.

6.3 Partnership Funds.

The funds of the Partnership shall be deposited in such account or accounts as are designated by the Management Committee and shall not be commingled with the funds of any Partner or any affiliate thereof. All withdrawals from such account(s) shall be made upon such authorized signature(s) as the Management Committee may from time to time, determine.

6.4 Indemnification.

The Partnership shall indemnify and hold harmless the Partners from and against any loss, expense, damage, or injury suffered or sustained by them by reason of any acts, omissions, or alleged acts or omissions arising out of their activities on behalf of the Partnership or in furtherance of the interests of the Partnership, including but not limited to any judgment, award, settlement, reasonable attorneys' fees, and other costs or expenses incurred in connection with the defense of any actual or threatened action, proceedings, or claim, if the acts, omissions, or alleged acts or omissions upon which the actual or threatened action, proceedings, or claims are based were for a purpose reasonably believed to be in the best interests of the Partnership and were not performed or omitted fraudulently or in bad faith or as a result of negligence by a Partner and were not in violation of the Partner's fiduciary obligation to the

Partnership. Any such indemnification shall be solely from the assets of the Partnership.

6.5 Other Matters Concerning the Partners.

(a) Any Partner may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, statement, instrument, opinion, report, notice, request, consent, order, bond, debenture, or other paper or document believed by it to be genuine and to have been signed or presented by the proper party or parties.

(b) Any Partner may consult with legal counsel, accountants, appraisers, management consultants, investment bankers, and other consultants and advisors selected by it and may rely on any opinion of any such consultant or advisor as to matters which the Partner believes to be within its professional or expert competence as long as the Partner acts in good faith and in accordance with such opinion.

6.6 General Partners' Other Business Activities.

It is recognized that the Partners and affiliates of the Partners are or may be engaged in the conduct of other substantial activities for their own account and for the accounts of others, including the management, ownership, and operation of cellular radio facilities in areas other than Kentucky RSA 4. The Partners and their officers, directors or representatives shall not be required to devote their full time to Partnership affairs but only such time as in their judgment the conduct of the Partnership affairs shall require.

6.7 Liability.

No Partner shall be liable, responsible, or accountable in damages or otherwise to the Partnership or any Partner for any action taken or failure to act on behalf of the Partnership within the scope of the authority conferred on any Partner by this Agreement or by law unless the act or omission was performed or omitted fraudulently or in bad faith or constituted negligence.

6.8 Bankruptcy. At the Bankruptcy of any Partner, that Partner (an "Inactive Partner") and any member of the Management Committee selected by that Partner pursuant to Section 6.1(a) shall cease to have any voice in the conduct of the affairs of the Partnership, and all acts, consents, and decisions with respect to the Partnership shall thereafter be made by the other Partners. The Inactive Partner shall, nonetheless, remain liable for its share of any losses of the Partnership or contributions to the Partnership as provided herein, and shall be entitled to receive its share of income, gain, loss, deduction, credit, and distributions. For six months from and after the date of the Bankruptcy of any Partner, the other Partners shall have the irrevocable option to purchase the Inactive Partner's Partnership Interest. Any such purchase shall be made in proportion to the respective Percentage Interest of the other Partners at such time or in such other proportion as they may mutually agree. Should the other Partners exercise their option to purchase the Inactive Partner's Partnership Interest, they shall notify the Inactive

Partner or his representative of their intention to do so within the six-month option period. The purchase price of any Partnership Interest purchase pursuant to this Section 6.8 shall be the Appraisal Price as (defined in Section 9.1(d)) and shall be payable in cash at the time specified in Section 9.1(e). Should the other Partners not exercise the option to purchase the Inactive Partner's Partnership Interest, the Inactive Partner shall remain an Inactive Partner in accordance with the provisions set forth in this Section 6.8.

VII. BOOKS, RECORDS, ACCOUNTING AND REPORTS

7.1 Records and Accounting.

The Partnership shall keep or cause to be kept complete and accurate books with respect to the Partnership's business, which books shall at all times be kept at the principal office of the Partnership. The books of the Partnership shall be maintained, for financial reporting purposes, on the accrual basis in accordance with generally accepted accounting principles.

7.2 Fiscal Year.

The fiscal year of the Partnership shall be the calendar year.

VII. INCOME TAX MATTERS

8.1 Organizational Expenses.

The Partnership shall elect to deduct expenses incurred in organizing the Partnership ratably over a sixty-month period as provided in Section 709 of the Code.

8.2 Taxation as a Partnership.

No election shall be made by the Partnership, or any Partner to be excluded from the application of any of the provisions of Subchapter K, Chapter 1 of Subtitle A of the Code or from any similar provisions of any state tax laws.

IX. TRANSFER OF PARTNERSHIP INTERESTS

9.1(a) Rights of First Refusal. The Partners agree they will not (directly or indirectly) sell, give, assign, pledge or otherwise transfer or encumber (any such event hereinafter referred to as "sell or transfer") their Partnership Interest except pursuant to the provisions of this Section 9.1, and any attempt to sell or transfer a Partnership Interest other than in accordance with the terms and provisions of this Section 9.1 shall be null and void and of no effect.

9.1(b) If a Partner desires to sell or transfer all or any part of its Partnership Interest (hereinafter "Desire to Sell") (hereinafter such party desiring to sell referred to as "Seller"), it shall notify the nonselling Partners ("Notice of Transfer") of the Desire to Sell, and, if such Desire to Sell is in response to a third party offer, such Notice of Transfer shall contain the terms of the third party offer and the identity of the prospective purchaser. For a period of 60 days after the last of the nonselling Partners receipt from Seller of a Notice of Transfer the Partners shall have an option ("Transfer Option") to purchase the Seller's Partnership Interest identified in the Notice of Transfer. The purchase price and the terms of sale for

the Partnership Interest to be purchased pursuant to the Transfer Option shall be the price and terms identified in the Notice of Transfer or if the Notice of Transfer is not in response to a third party offer, the terms of sale shall be cash and the price shall be the Appraisal Price as defined in Section 9.1(d) of this Article IX. Unless they agree otherwise, those Partners exercising the Transfer Option by notifying the Seller in a timely manner (the "Purchasing Partners") shall be obligated to purchase that percentage of the Partnership Interest identified in the Notice of Transfer as the Partnership Interest of each such Purchasing Partner bears to the Partnership Interests of all Purchasing Partners, but the seller shall not be obligated to sell less than all of the Partnership Interest Identified in the Notice of Transfer, so exercising. The Purchasing Partners shall have a period of sixty (60) days to arrange financing for and close the purchase transaction. During such sixty (60) day period, the Purchasing Partners shall also cause the Appraisal Price to be determined, if necessary.

9.1(c) If the Partners do not exercise their respective options to purchase the Shares pursuant to Section 9.1(b) or if they fail or refuse to perform their purchase obligations after such exercise within the sixty (60) day period, such Partnership Interest may be sold or transferred by Seller for a period of sixty (60) days after the lapse of such options to the transferee identified in the Notice of Transfer at the purchase price and upon the terms specified in the Notice of Transfer. Unless the

transferee becomes a substituted Partner pursuant to Article X, the transferee shall have no right to interfere in the management or administration of the Partnership's business or affairs, or to require any information or account of Partnership transactions, or to inspect the Partnership's books. The sale or transfer merely entitles the transferee to receive the share of distributions, income, and losses to which the Seller would otherwise be entitled.

(d) The "Appraisal Price" shall mean the value of a Partnership Interest determined on the basis of the value of the Partnership as a going concern, on the basis of such Partnership Interests being free of all restrictions imposed by this Agreement and on a basis exclusive of any adjustment to such value due to the illiquidity of or absence of any market for such Partnership Interest. The Appraisal Price shall be determined as follows: within ten (10) days after exercise of the Transfer Option pursuant to Section 9.1, the Purchasing Partners and the Seller shall use their best efforts to agree on an Appraisal Price. If they fail to agree, then on the eleventh (11th) day after such exercise, the Seller, on the one hand, and the Purchasing Partners on the other, shall notify each other in writing of its opinion as to the Appraisal Price and the identity of an appraiser it has selected to determine the Appraisal Price. Each such appraiser shall deliver its report to the Seller and Purchasing Partners, and to the other appraiser, within forty-five (45) days of the giving of such notice and the two

appraisers shall meet and attempt to determine the Appraisal Price within sixty (60) days after the exercise of the Transfer Option under Section 9.1(b). If the two appraisers fail to reach agreement within such sixty (60) day period they shall, at the end of such period, agree on a third appraiser who shall determine a third Appraisal Price. The third appraiser shall not be given the Appraisal Prices of the first two appraisers. The Final Appraisal Price shall be (i) the amount agreed to by the two parties if they do agree, or (ii) the amount specified in the notice given by one party on the eleventh (11th) day as above in the event that the other party fails to give notice on that day designating an appraiser or if the appraiser designated by such party fails to perform in accordance with the schedule contemplated hereby or fails to act in good faith, or (iii) the amount agreed to by the two appraisers appointed by the parties if clauses (i) or (ii) immediately preceding are not applicable, or (iv) if a third appraiser has been appointed, the average of the two closest appraisals. All costs of the appraisals hereunder shall be paid 25% by the Purchasing Partners and 75% by the Seller. The Parties shall cooperate fully with each appraiser appointed under this Section 9.1 and shall fully disclose any and all information including, without limitation, any business plans or forecasts of the Partnership which is or may be material to the valuation of the Partnership as a going concern.

(e) The closing of any purchase transaction created pursuant to this Section 9.1 shall take place on or before the one-hundred twentieth (120) day after exercise of the Transfer Option. At the closing, Seller shall deliver the Partnership Interest free and clear of all liens and restrictions against delivery to it of the purchase price required by this Section 9.1.

9.2 Tiered Acquisition. Regardless of any contrary provision of this Agreement, no Person may acquire from any Partner or Partners (in either case, a "Selling Partner") a Partnership Interest unless the Person also offers to acquire the Partnership Interest of each other Partner at a price and under terms and conditions that are at least as favorable as those by which the Person offers to acquire the Partnership Interest from the Selling Partner. Any acquisition of an interest in the Partnership in violation of this Section 9.2 shall be deemed null and void and of no effect.

X. ADMISSION OF OTHER GENERAL PARTNERS

By a vote of the Partners owning at least a Majority Interest of the Partnership, one or more parties may become additional or substituted partners. In the event of any such addition or substitution (i) the new Partner shall participate in the Partnership on the same terms and conditions as described in this Agreement, and shall be subject to and bound by all of the provisions of this agreement as if originally a party of this Agreement and (ii) the Partnership Interests of the other

Partners shall be adjusted according to their then current respective Partnership Interests.

XI. DISSOLUTION AND LIQUIDATION

11.1 Dissolution.

The Partnership may be dissolved only upon:

- (a) the sale or other disposition of all or substantially all of the partnership's assets;
- (b) an election to dissolve the Partnership by the affirmative vote of the Partners owning at least One Hundred percent (100%) of the Partnership Interests.
- (c) the Bankruptcy of any Partner; provided that the remaining Partners shall have the authority to continue the business of the Partnership within the meaning of Section 362.335(2)(b) of the Kentucky Act.
- (d) any other event that, under the Kentucky Act, would cause its dissolution.

11.2 The Partners shall liquidate the assets of the Partnership, and apply and distribute the proceeds of such liquidation in the following order of priority, unless otherwise required by mandatory provisions of applicable law:

- (a) the payment to creditors of the Partnership, including Partners, in order or priority provided by law;
- (b) to the Partners, in proportion to and to the extent of the positive balances in their respective Capital Accounts; and

(c) to the Partners in accordance with their respective Percentage Interests; provided, however, that the Partners may place in escrow a reserve of cash or other assets of the Partnership for contingent liabilities in an amount determined by the Partners to be appropriate for such purposes.

11.3 Distribution in Kind.

Notwithstanding the provisions of Section 11.2 which require the liquidation of the assets of the Partnership, but subject to the order of priorities set forth therein, if on dissolution of the Partnership the Partners determine that an immediate sale of part or all of the Partnership's assets would be impractical or would cause undue loss to the Partners, the Partners may, by a vote of a Majority Interest defer for a reasonable time the liquidation of any assets except those necessary to satisfy liabilities of the Partnership (other than those to Partners) and/or may, in its absolute discretion, distribute to the Partners prorata, in lieu of cash, as tenants in common and in accordance with the provisions of Section 11.2, undivided interests in such Partnership assets as the Partners deem not suitable for liquidation. Any distributions in kind shall be subject to such conditions relating to the disposition and management thereof as the Partners deem reasonable and equitable and to any joint operating, charter or management agreements or other agreements governing the operation of such properties at such time. The Partners shall determine the fair market value of any property

distributed in kind using such reasonable method of valuation as they may adopt.

11.4 Waiver of Partition.

Each Partner hereby waives any rights to partition of the Partnership property.

XII. AMENDMENT OF PARTNERSHIP AGREEMENT

The Partnership Agreement may be amended by a vote of the Partners owning at least One Hundred percent (100%) of the Partnership Interests, provided, however that no such amendment shall otherwise change any Partner's Partnership Interest as determined in this Agreement, or any Partner's voting rights as otherwise specified in this Agreement.

XIII. SALE OR TRANSFER OF PARTNERSHIP ASSETS

No direct or indirect sale or transfer of substantially all of the Partnerships assets or licenses is permitted without the prior approval of Partners controlling at least One Hundred percent (100%) of the Partnership Interests.

XIV. GENERAL PROVISIONS

14.1 Addresses and Notices.

Any notice, demand, request or report required or permitted to be given or made to a Partner under this Agreement shall be in writing and shall be deemed given or made when delivered in

person or when sent by first class mail or by other means of written communication to the Partner at the address set forth below.

Brandenburg Telephone Co., Inc.
332 East Broadway
Brandenburg, KY 40108
Attention: J. D. Tobin, Jr., President

South Central Rural Telephone
Cooperative Corporation, Inc.
Box 159
Glasgow, KY 42141
Attention: Clinton Quenzer, General Manager

Any notice, payment or report to be given or sent to a Partner hereunder shall be deemed conclusively to have been given or sent, and the obligation to give such notice or report or to make such payment shall be deemed conclusively to have been given or sent, and the obligation to give such notice or report or to make such payment shall be deemed conclusively to have been fully satisfied, upon mailing such notice, payment or report to such Partner by certified mail, return-receipt requested, at its address as shown above. Any notice to the Partnership shall be deemed given if received at the principal office of the Partnership designated pursuant to Section 1.3. The Partnership may rely and shall be protected in relying on any notice or other document from a Partner or other Person if believed by them to be genuine.

14.2 Titles and Captions.

All Article or section titles or captions in this Agreement are for convenience only. They shall not be deemed part of this

Agreement and in no way define, limit, extend or describe the scope of intent of any provisions hereof.

14.3 Pronouns and Plurals.

Whenever the context may require, any pronoun used in this Agreement shall include the corresponding masculine, feminine or neuter forms, and the singular form of nouns, pronouns and verbs shall include the plural and vice versa.

14.4 Further Action.

The parties shall execute and deliver all documents, provide all information and take or refrain from taking action as may be necessary or appropriate to achieve the purpose of this Agreement.

14.5 Binding Effect.

This Agreement shall be binding upon and inure to the benefits of the parties and their heirs, executors, administrators, successors, legal representatives and permitted assigns.

14.6 Integration.

This Agreement constitutes the entire Agreement among the parties pertaining to the subject matter hereof and supersedes all prior agreements and understandings pertaining thereto.

14.7 Creditors.

None of the provisions of this Agreement shall be for the benefits of or enforceable by an creditors of the Partnership.

14.8 Waiver.

No failure by any party to insist upon the strict performance of any covenant, duty, Agreement or condition of this

Agreement or to exercise any right or remedy consequent upon a breach thereof shall constitute waiver of any such breach or any other covenant, duty, Agreement or condition.

14.9 Counterparts.

This Agreement may be executed in counterparts, all of which together shall constitute one Agreement binding on all the parties, notwithstanding that all the parties are not signatories to the original or the same counterpart.

14.10 Applicable Law.

This Agreement shall be construed in accordance with and governed by the laws of Kentucky, without regard to the principles of conflicts of law.

14.11 Invalidity of Provisions.

If any provision of this Agreement is or becomes invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein shall not be affected thereby.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of this 27th day of December, 1989, but actually on the dates indicated below.

GENERAL PARTNERS:

BRANDENBURG TELEPHONE
CO., INC.

By: [Signature]

Title: President

Date: 12-27-89

SOUTH CENTRAL RURAL TELEPHONE
COOPERATIVE CORPORATION,
INC.

By: [Signature]

Title: GENERAL MANAGER

Date: 12/27/89



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2018-ASO-8931-OE

Issued Date: 06/18/2018

Doug Updegraff
Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42701

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

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

Structure:	Antenna Tower Gravel Switch
Location:	Gravel Switch, KY
Latitude:	37-35-34.44N NAD 83
Longitude:	85-02-41.75W
Heights:	856 feet site elevation (SE) 250 feet above ground level (AGL) 1106 feet above mean sea level (AMSL)

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

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 1, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

☐ At least 10 days prior to start of construction (7460-2, Part 1)
☒ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 12/18/2019 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

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

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

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

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

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

If we can be of further assistance, please contact our office at (404) 305-6531, or darin.clipper@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2018-ASO-8931-OE.

Signature Control No: 364124906-367993164

(DNE)

Darin Clipper
Supervisor

Attachment(s)
Case Description
Frequency Data
Map(s)

cc: FCC

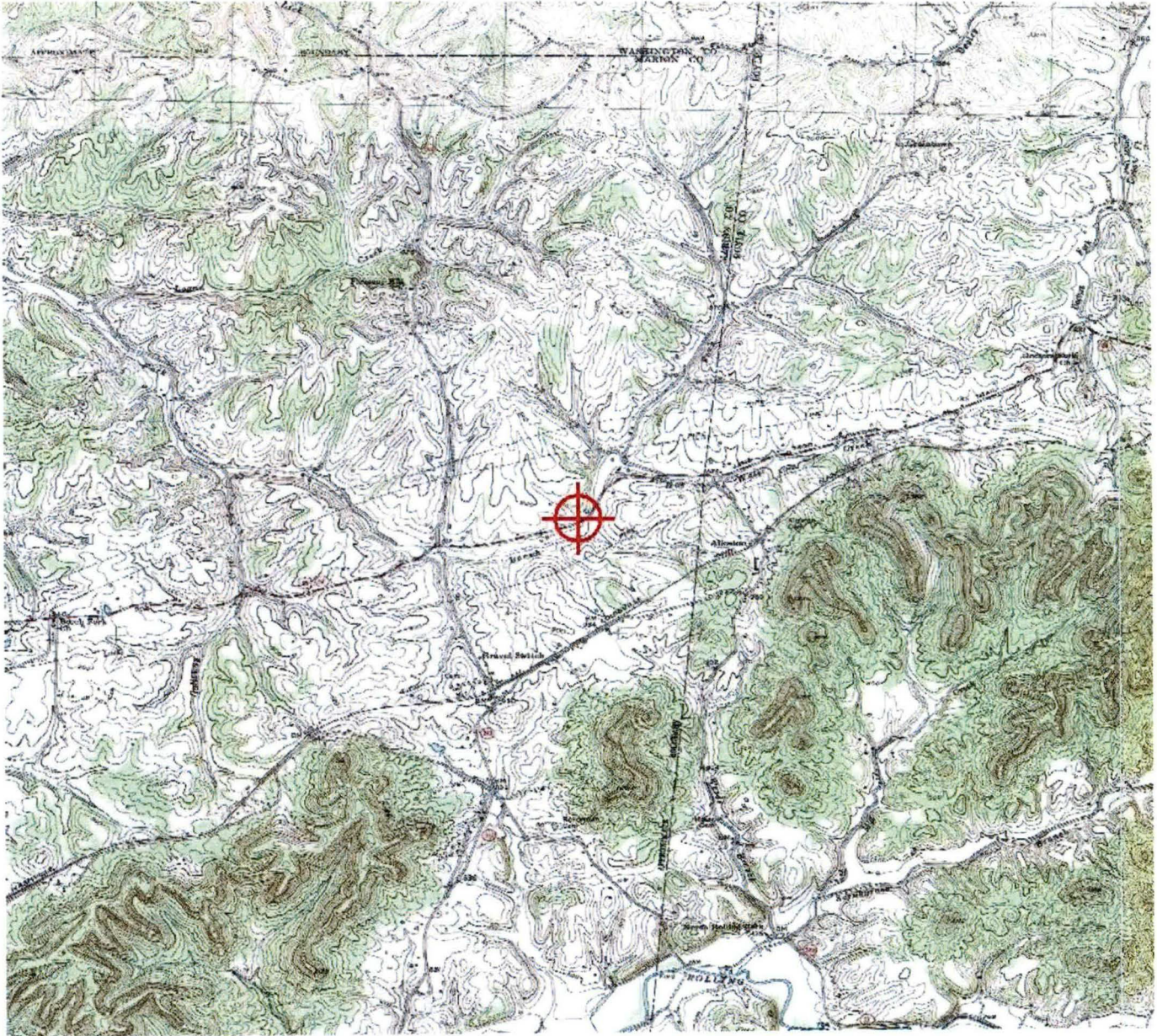
Case Description for ASN 2018-ASO-8931-OE

Proposed 240' self-supporting tower with top-mounted antennas for overall height of 250' AGL.

Frequency Data for ASN 2018-ASO-8931-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

TOPO Map for ASN 2018-ASO-8931-OE





KENTUCKY AIRPORT ZONING COMMISSION

MATTHEW BEVIN
Governor

421 Buttermilk Pike
Covington, KY 41017
www.transportation.ky.gov
859-341-2700

June 22, 2018

APPROVAL OF APPLICATION

APPLICANT:
BLUEGRASS CELLULAR
BLUEGRASS CELLULAR
2902 Ring Road
Elizabethtown, KY 42702

SUBJECT: AS-078-612-2018-052

STRUCTURE: Antenna Tower
LOCATION: Gravel Switch, KY
COORDINATES: 37° 35' 34.44" N / 85° 2' 41.75" W
HEIGHT: 250' AGL/1106' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 250' AGL/ 1106' AMSL Antenna Tower near Gravel Switch, KY 37° 35' 34.44" N / 85° 2' 41.75" W.

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

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

Medium Dual Obstruction Lighting is required in accordance with 602 KAR 50:100.

A blue ink signature of John Houlihan, consisting of a stylized 'J' and 'H'.

John Houlihan
Administrator



An Equal Opportunity Employer M/F/D



MATTHEW BEVIN
Governor

KENTUCKY AIRPORT ZONING COMMISSION

421 Buttermilk Pike
Covington, KY 41017
www.transportation.ky.gov
859-341-2700

CONSTRUCTION/ALTERATION STATUS REPORT

June 22, 2018

AERONAUTICAL STUDY NUMBER: AS-078-612-2018-052

BLUEGRASS CELLULAR
BLUEGRASS CELLULAR
2902 Ring Road
Elizabethtown, KY 42702

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on June 22, 2018. This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within the said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit. When appropriate, please indicate the status of the project in the place below and return this letter to John Houlihan, Administrator, Kentucky Airport Zoning Commission, 421 Buttermilk Pike, Covington, KY, 41017. 859-341-2700.

STRUCTURE: Antenna Tower
LOCATION: Gravel Switch, KY
COORDINATES: 37° 35' 34.44" N / 85° 2' 41.75" W
HEIGHT: 250' AGL / 1106' AMSL

CONSTRUCTION/ALTERATION STATUS

1. The project () is abandoned. () is not abandoned.

2. Construction status is as follows:

Structure reached its greatest height of _____ ft. AGL
_____ ft. AMSL on _____ (date).

Date construction was completed. _____

Type of obstruction marking/painting. _____

Type of obstruction lighting. _____

As built coordinates. _____

Miscellaneous Information. _____

DATE _____

SIGNATURE/TITLE _____



An Equal Opportunity Employer M/F/D



KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
Rev. 06/2016
Page 2 of 2

2018-053 052

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

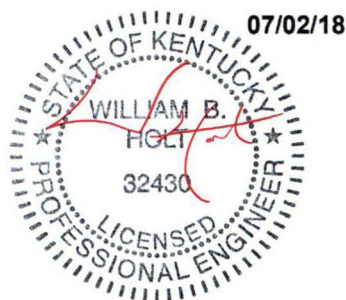
APPLICANT (name) Doug Updegraff		PHONE 270-769-0339	FAX 270-737-0580	KY AERONAUTICAL STUDY # AS-078-612-2018-052	
ADDRESS (street) 2902 Ring Road		CITY Elizabethtown		STATE KY	ZIP 42702
APPLICANT'S REPRESENTATIVE (name) Leila Rezanavaz		PHONE 703-584-8668	FAX 703-584-8694		
ADDRESS (street) 8300 Greensboro Dr. Suite 1200		CITY McLean		STATE VA	ZIP 22102
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start 06/20/17 End 06/25/17	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 37°35'34.44"		LONGITUDE 85°02'41.75"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Gravel Switch County Marion		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Lebanon Springfield George Hoerter Field Airport (612)			
SITE ELEVATION (AMSL, feet) 856		TOTAL STRUCTURE HEIGHT (AGL, feet) 250		CURRENT (FAA aeronautical study #)	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1106				PREVIOUS (FAA aeronautical study #) N/A	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 11.1 Miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) ESE					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) Site is located at: 149 Preston Loop, Gravel Switch, KY 40328					
DESCRIPTION OF PROPOSAL Proposed 240' self-supporting tower with top-mounted antennas for overall height of 250' AGL.					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 05/02/2018					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME Leila Rezanavaz	TITLE Sr. Consulting Engr	SIGNATURE <i>Leila Rezanavaz</i>		DATE 05/02/2018	
COMMISSION ACTION <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved					
SIGNATURE <i>[Signature]</i>				DATE 6-22-18	



World Tower
COMPANY, INC.

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

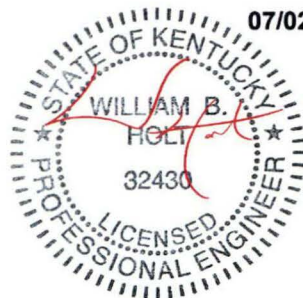
**240' MODEL WSST TOWER
FOR: BLUEGRASS WIRELESS
SITE: GRAVEL SWITCH
MARION COUNTY, KY
DESIGN PACKAGE**



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

GENERAL NOTES

1. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY AWS. D 1.1.
2. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
3. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
4. LEG STEEL IS 50 KSI MIN YIELD SOLID ROUND OR PIPE AND BRACING STEEL IS 36 KSI MIN YIELD SOLID ROUND OR STRUCTURAL ANGLE.
5. ALL STRUCTURAL BOLTS ARE ASTM A325X, THREADS EXCLUDED FROM SHEAR PLANE.
6. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH TIA-222-G EVERY 5 YEARS.
7. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.



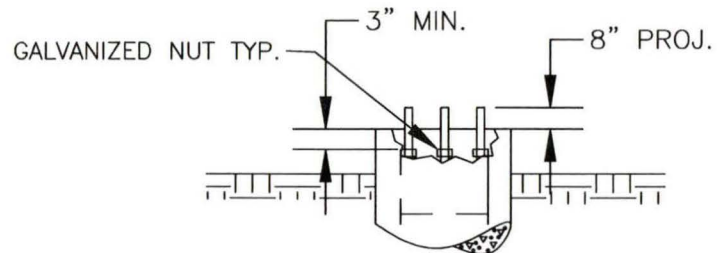
07/02/18

WORLD TOWER

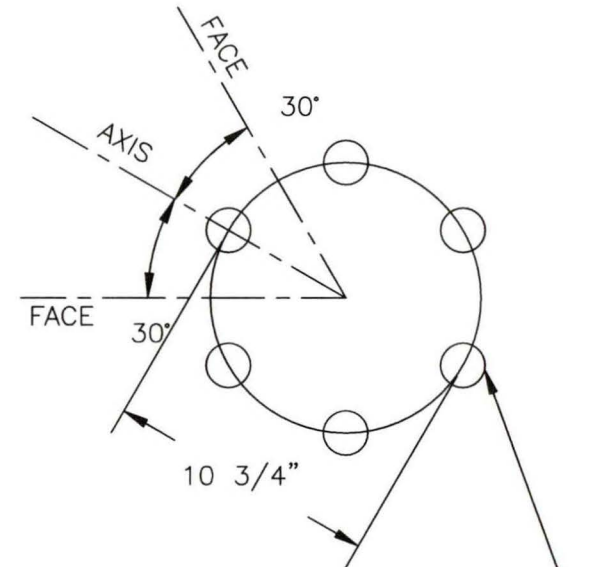
TITLE:

240' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE: GRAVEL SWITCH
MARION COUNTY, KY

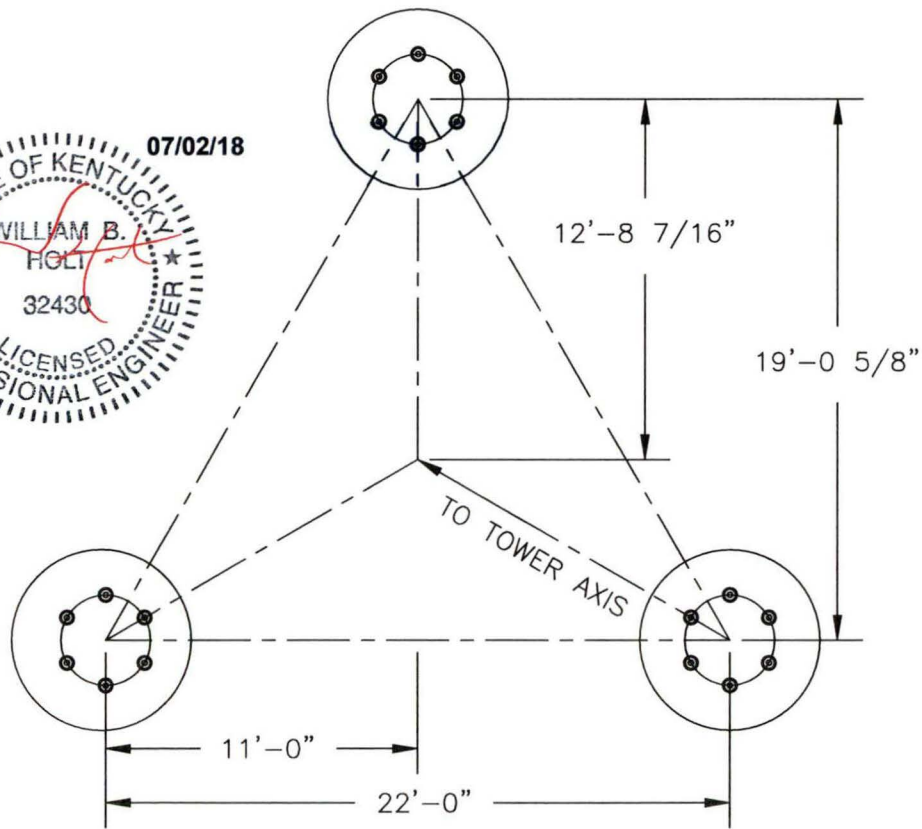
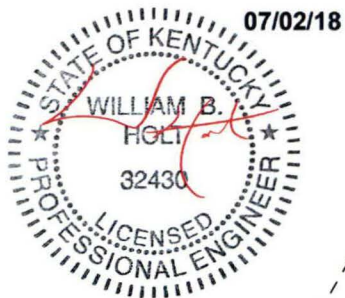
SCALE	DWN.	LKG	CKD.	DATE 7-2-18
			DWG. NO.	Q18616N



PIER ELEVATION



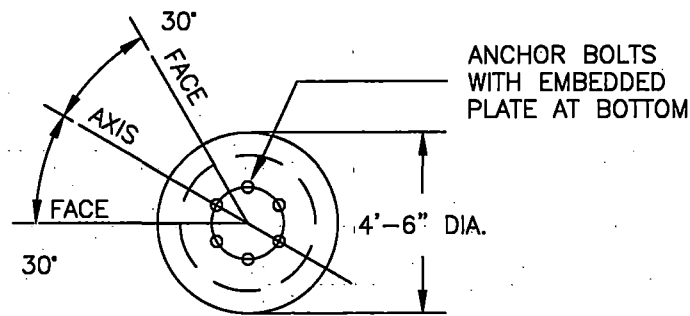
ANCHOR BOLTS 6 (18 TOTAL)
 1 1/2"Ø X 66" ASTM F1554-105
 EQUALLY SPACED WITH TOP TEMPLATE
 AND EMBEDDED PLATE



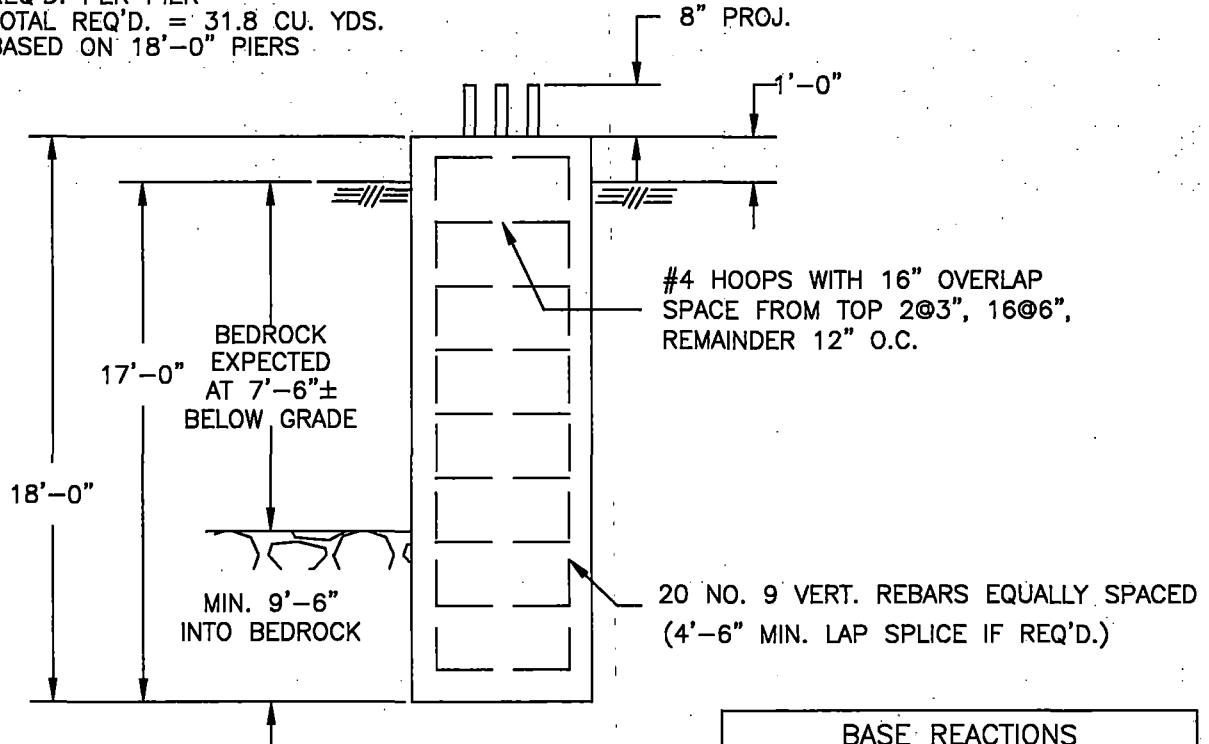
WORLD TOWER

TITLE:
 ANCHOR BOLT LAYOUT
 240' MODEL WSST TOWER
 FOR: BLUEGRASS CELLULAR
 SITE: GRAVEL SWITCH
 MARION COUNTY, KY

SCALE NONE	DWN. LKG	CKD.	DATE 7-2-18
FILE	DWG. NO. Q18616AB		



10.6 CU. YDS. CONCRETE
REQ'D. PER PIER
TOTAL REQ'D. = 31.8 CU. YDS.
BASED ON 18'-0" PIERS



BASE REACTIONS		
OTM:	12126.0	FT. KIPS
COMP.	680.0	KIPS
UPLIFT	582.0	KIPS
SHEAR (3 LEGS)	87.0	KIPS
WT. NO ICE	130.0	KIPS
WT. 3/4" ICE	308.0	KIPS

GENERAL NOTES

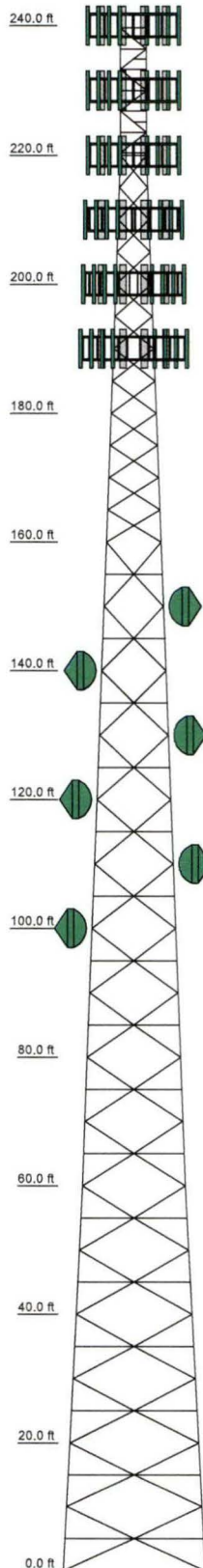
1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCEMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM TERRACON. PROJECT NUMBER 57185019 DATED MAY 21, 2018.

TITLE: FOUNDATION DETAIL
240' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE: GRAVEL SWITCH
MARION COUNTY, KY

WORLD TOWER

SCALE	NONE	DWN.	LKG	CKD.	DATE 7-2-18
FILE				DWG. NO.	Q18616F

Section	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 5		SR 4 3/4		SR 4 1/2	SR 4 1/4	SR 4	SR 3 3/4	SR 3 1/2	SR 3	SR 2 1/2	SR 1 3/4
Diagonals	L4x4x1/4				L3 1/2x3 1/2x1/4			L3x3x1/4	L2x2x1/4		L2x2x3/16	SR 1 1/8
Diagonal Grade												
Top Girts											L2x2x1/8	SR 1 1/8
Bottom Girts												SR 1
Horizontals	L4x4x1/4	L3 1/2x3 1/2x1/4	L3x3x1/4	L3x3x3/16	L3x3x3/16	L2 1/2x2 1/2x3/16	L2x2x1/4	L2x2x3/16		N.A.		SR 1
Sec. Horizontals												SR 1
Face Width (ft)	22	20	18	16	14.5	13	11.5	10	8.5	7	5.5	4
# Panels @ (ft)												6 @ 3.20833
Weight (K)	50.5	7.2	6.8	5.9	5.1	4.5	3.9	3.4	2.9	2.3	1.5	1.1

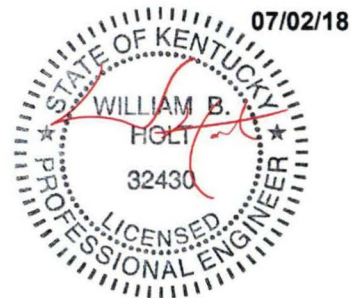


MATERIAL STRENGTH

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

TOWER DESIGN NOTES

1. Tower is located in Marion County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 89.00 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 30.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60.00 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. Fall radius less than half tower height per customer spec
9. TOWER RATING: 93.3%

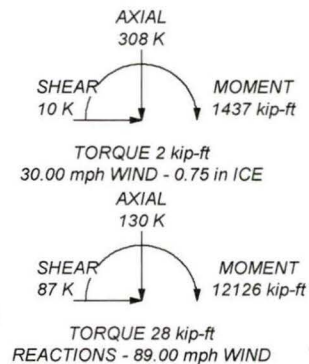


ALL REACTIONS
ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 680 K
SHEAR: 56 K

UPLIFT: -582 K
SHEAR: 49 K



World Tower Company

1213 Compressor Drive
Mayfield, KY
Phone: (270) 247-3642
FAX:

Job: **240' WSST / Run Q18616**

Project: **Gravel Switch**

Client: **Bluegrass Cellular**

Code: **TIA-222-G**

Path:

Drawn by: **WBH**

Date: **06/29/18**

Scale: **NT**

Dwg No. **E**



Geotechnical Engineering Report

Gravel Switch Tower

240-foot Self-Support Telecommunications Tower

Gravel Switch, Marion County, Kentucky

May 21, 2018

Terracon Project No. 57185019

Prepared for:

Bluegrass Cellular, Inc.

Elizabethtown, KY

Prepared by:

Terracon Consultants, Inc.

Louisville, KY

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

May 21, 2018

Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42701



Attn: Mr. Tim Ash
P: [270] 765 6361
E: tash@bluegrasscellular.com

Re: Geotechnical Engineering Report
Gravel Switch Tower
240-foot Self-Support Telecommunications Tower
149 Preston Loop
Gravel Switch, Marion County, Kentucky
Terracon Project No. 57185019

Dear Mr. Ash:

Terracon Consultants, Inc. (Terracon) has completed the geotechnical subsurface exploration, field testing, laboratory testing, and engineering evaluation for the Gravel Switch Tower project. The purpose of this report is to provide geotechnical parameters for the subsurface materials for foundation design and earthwork considerations. This study was performed in general accordance with Terracon's Master Service Agreement dated March 7, 2001 and Kentucky RSA#4 Cellular General Partnership d/b/a Bluegrass Cellular Purchase Order PO-4903 dated January 12, 2018.

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, please contact us.

Sincerely,
Terracon Consultants, Inc.



Ryan C. Ortiz, P.E.
Senior Staff Engineer

A handwritten signature in black ink, appearing to read "Ben Taylor".

Benjamin W. Taylor, P.E.
Senior Associate, Office Manager

Terracon Consultants, Inc. 13050 Eastgate Park Way Ste 101 Louisville, KY 40223-3915
P (502) 456-1256 F (502) 456-1278 terracon.com

Environmental


Facilities

Geotechnical

Materials

REPORT TOPICS

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Note: This report was originally delivered in a web-based format. **Orange Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the  logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES

SITE LOCATION AND EXPLORATION PLANS

EXPLORATION RESULTS (Boring Logs, Rock Core Photo Logs, and Laboratory Data)

SUPPORTING INFORMATION (General Notes and Unified Soil Classification System)

Geotechnical Engineering Report
Gravel Switch Tower
149 Preston Loop
Gravel Switch, Marion County, Kentucky
Terracon Project No. 57185019
May 21, 2018

INTRODUCTION

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed Gravel Switch Tower to be located at 149 Preston Loop in Gravel Switch, Marion County, Kentucky. The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil conditions
- Groundwater conditions
- Earthwork and site preparation
- Foundation design and construction
- Seismic site classification per IBC
- Floor slab design and construction

The geotechnical engineering scope of services for this project included the advancement of one test boring, which extended to about 37.5 feet below existing site grades. The boring was located at the tower center, as staked by Landmark Surveying Co., Inc representative Mr. Darren Helms.

Maps showing the site and boring locations are shown in the **Site Location Plan**, **Karst Potential Map**, and **Exploration Plan**, respectively. The results of the laboratory testing performed on soil samples obtained from the site during the field exploration are included on the boring log in the **Exploration Results** section of this report.

SITE CONDITIONS

The following description of site conditions is derived from our review of publicly-available geologic, topographic, and aerial maps.

Item	Description
Parcel Information	The project is located at 149 Preston Loop in Gravel Switch, Marion County, Kentucky. Approximate Latitude/ Longitude: 37.592944°, -85.044861° (tower center) Please see the Site Location Plan (Exhibit A-1A)

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

May 21, 2018 ■ Terracon Project No. 57185019



Item	Description
Existing Improvements	Danville Highway is located about 150 feet northwest and Preston loop is located about 90 feet southeast of the proposed tower. No other existing improvements are apparent between the proposed tower and existing roadways.
Current Ground Cover	Based on review of aerial photographs, the area near the site contains grass-, soil-, and tree-covered areas.
Existing Topography	Based on review of USGS publicly available existing topographic contours, the site contains an 8 percent grade up to the northwest, with ground surface elevations ranging from about 850 to 858 feet within a 50-foot radius of the tower center. Based on review of the Site Candidate Information for Gravel Switch prepared by Mr. Darren Helms, the ground surface elevation at the tower center is about 855 feet.

PROJECT DESCRIPTION

Our initial understanding of the project was discussed in the project planning stage. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

ITEM	DESCRIPTION
Proposed construction	A new 240-foot-tall self-support tower is planned at the subject property. An equipment shelter may be constructed for equipment support.
240-foot Self-Support Tower: Maximum loads (to be confirmed)	<p>The following loading conditions are anticipated at each tower leg.</p> <ul style="list-style-type: none">■ Vertical: 600 kips (to be confirmed)■ Shear: 80 kips (to be confirmed)■ Uplift: 500 kips (to be confirmed) <p>These anticipated loads are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should review the recommendations in this report and confirm they are applicable.</p>
240-foot Self-Support Tower: Maximum allowable settlement (to be confirmed)	1-inch (to be confirmed)

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky
May 21, 2018 ■ Terracon Project No. 57185019



ITEM	DESCRIPTION
Equipment building: Maximum loads (to be confirmed)	Column: 34 kips (to be confirmed) Wall: 1.5 kips/ft (to be confirmed) These anticipated loads that are shown are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should review the recommendations in this report and confirm they are applicable.
Equipment building: Maximum allowable settlement (to be confirmed)	Total: 1-inch (to be confirmed) Differential: ¾ inch over 40 feet (to be confirmed)
Grading (to be confirmed)	Please see the Site Conditions for additional details regarding the existing site topography. Based on our understanding of the existing site topography, we anticipate cuts and fills of 4 feet or less will be required. Terracon should be retained to review the topographic plan and grading plan upon availability relative to the recommendations provided in this report.

GEOTECHNICAL CHARACTERIZATION

Regional Soil Geology

Formation	Description
Calloway Creek Limestone ¹	Limestone and shale The limestone encountered in this formation is light-gray to olive-gray. It contains irregular beds 1 to 6 inches thick and is comprised of broken and whole fossils in a fine- to very coarse grained bioclastic matrix. The fossils include brachiopods and branching bryozoans. The shale in this formation is light-gray, calcareous, and silty. The shale is typically encountered in beds 1 to 6 inches thick throughout unit.

1. Based on the Geologic map of the Gravel Switch quadrangle, Marion County, published by U.S. Geological Survey (Quadrangle GQ-1506).

The Calloway Creek Limestone is moderately susceptible to dissolution along joints and bedding planes in the rock mass. This results in voids and solution channels developing within the rock strata creating 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 karst topography.

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

May 21, 2018 ■ Terracon Project No. 57185019



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 structures situated above the karst features. The risks associated with karst geology are common for the project vicinity and are not unique to this site.

Subsurface Profile

We have developed a general characterization of the subsurface soil and groundwater conditions based upon our review of the data and our understanding of the geologic setting and planned construction. The following table provides our geotechnical characterization at Boring B-1.

Subsurface conditions at the boring location can be generalized as follows:

Stratum	Approximate Depth to Bottom of Stratum (feet)	Material Description	Consistency/Density
Surficial Material ¹	1	Topsoil	N/A
Stratum 1	3	Lean Clay (CL) ²	Medium Stiff SPT N-value of 5 bpf Hand penetrometer value of 3,500 psf
Stratum 2	7	Fat Clay (CH) ³	Stiff to Very Stiff SPT N-value of 10 bpf Hand penetrometer values of 4,500 to 7,500 psf
Stratum 3	7.5	Weathered Limestone	N/A
Stratum 4	Undetermined	Limestone ⁴	Recovery: 96 to 100% RQD: 48 to 86% Unconfined compressive strength results ranging from 4,880 to 9,290 psi

1. Topsoil was encountered at Boring B-1.

2. Moisture and Atterberg limit testing of a representative sample resulted in a liquid limit (LL) of 39 percent, plastic limit (PL) of 21 percent, and moisture content of 22 percent.

3. Moisture content test results on representative samples ranged from 21 to 25 percent.

4. Auger refusal on limestone bedrock was encountered at a depth of about 7.5 feet our boring B-1 was advanced into this stratum by rock coring techniques to 37.5 feet below existing grade. Unit Weight test results range from about 162.5 to 164.4 pcf.

Geotechnical Engineering Report

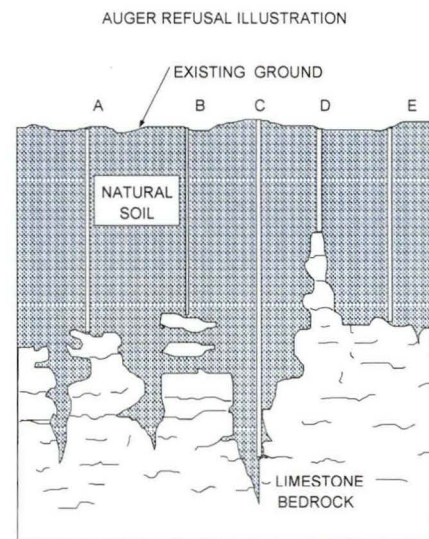
Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky
May 21, 2018 ■ Terracon Project No. 57185019



Auger refusal is defined as the depth below the ground surface at which a test boring can no longer be advanced with the soil drilling technique being used. In an area of limestone bedrock, auger refusal can result on slabs of unweathered limestone suspended in the residual soil matrix ("floaters"), on rock "pinnacles" rising above the surrounding bedrock surface, in widened joints that may extend well below the surrounding bedrock surface, or on the upper surface of continuous bedrock. Several of these possible auger refusal conditions are illustrated in the adjacent figure.

The Calloway Creek Limestone bedrock formation is known for producing several obstructions that can cause the augers to refuse above sound bedrock. These obstructions can range from floaters to rock pinnacles as illustrated in Examples A, B, C, and D in the figure. Depth to competent bedrock in areas of karst geology can vary greatly over short distances. The possibility of varying depths to bedrock should be considered when developing the design and construction plans for this project. Rock core operations were performed to better explore the refusal materials. See the Karst Potential Plan in the Appendix (Exhibit A-1B). The risks associated with karst geology are common for the project vicinity and are not unique to this site.

Competent limestone bedrock was encountered at about 7.5 feet below existing grade. Sample recovery in competent limestone ranged from 96 to 100 percent. The quality of the core obtained in competent bedrock is considered to be fair to good with RQD values ranging from of 48 to 86 percent.



THIS FIGURE IS FOR ILLUSTRATIVE PURPOSES ONLY AND DOES NOT NECESSARILY DEPICT THE SPECIFIC BEDROCK CONDITIONS AT THIS SITE

Specific conditions encountered at the boring location are indicated on the attached boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Further details of the boring can be found on the boring log in the Appendix of this report. Photographs of the rock core samples can be observed in the Rock Core Photography Log (Exhibit A-4).

Groundwater Conditions

The boreholes were observed while drilling for the presence and level of groundwater. No groundwater was observed in the remaining borings for the short duration that the borehole was open. Due to the low permeability of the soils encountered in the borings, a relatively long period of time may be necessary for a groundwater level to develop and stabilize in a borehole in these materials. Long-term observations in piezometers or observation wells sealed from the influence of surface water are often required to define groundwater levels in materials of this type. As water was

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky
May 21, 2018 ■ Terracon Project No. 57185019



introduced into the borehole for the coring operation, the groundwater table could be present within the depth of our boring.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the borings were 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 logs. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project. In particular, this project has potential for trapped/perched water at the overburden/bedrock interface.

GEOTECHNICAL OVERVIEW

The following sections describe pertinent geotechnical considerations identified by the exploration and laboratory testing. Site preparation recommendations, including subgrade improvement, fill placement, and excavations are provided in the **Site Preparation** section.

Karst Potential

The project site has been located at an area with moderate karst potential. Karst features were not observed in the overburden soil or the recovered rock sample from the boring located at the tower center. Any structure with shallow foundation constructed at this site could experience subsidence (settlement) due to karst activity. Should shallow foundations be selected for tower or equipment building structural support, the client should be prepared to accept the risk for of construction in karst topography.

High Plasticity Clay

High plasticity fat clays (CH) were encountered from 3 to 7 feet below existing grade. High plasticity clays may be encountered at bearing elevations for any shallow foundations or floor slabs on this project.

High-plasticity soils are potentially expansive and could adversely affect lightly-loaded structures, such as foundations and floor slabs. The presence of fat clay should be anticipated at foundation bearing elevations, and at floor slab bearing elevations where proposed cuts exceed 2 feet below existing grade. Soils at the subgrade elevation should be tested by the geotechnical engineer or representative to delineate high plasticity clays to provide a minimum 1.5-foot-thick layer of low volume change material below the bearing elevation. Low volume change material used for backfilling over-excavations should meet the requirements of the **Material Types** section of this report. The low volume change layer will reduce risk but not eliminate the risk of the high plasticity clays adversely affecting lightly-loaded structures. To eliminate this risk, deep foundations (i.e. drilled

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

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piers) would be considered for foundation support. Additional recommendations concerning foundation over-excavation are provided in the **Foundations** section.

Medium Stiff Soils

Medium stiff soils were encountered within the upper 3 feet of the existing ground surface. Soft to medium stiff soils should be anticipated locally at this site. Prior to floor slab construction, subgrades should be proof-rolled with a loaded dump truck to help delineate any soft, medium stiff, or otherwise unsuitable material. Soils at the foundation bearing elevation should be tested by the geotechnical engineer or representative during foundation excavations to delineate any soft, medium stiff, or otherwise unsuitable material. Any soft to medium stiff soils identified by proof-rolling or foundation inspection should be remediated. After initial stripping, site preparation, and foundation excavations, medium stiff soils should be stabilized undercutting and re-compacting to stiff or better material.

Foundation Support

Site grading, structural loading, and foundation plans are unknown at this time. Anticipated loads are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should be retained to review the recommendations in this report.

Should shallow foundations be selected for tower foundation support, the tower mat foundation can be dimensioned for a net allowable soil bearing pressure of 3,000 psf, bearing at or below frost depth of 24 inches below surrounding grade. Design parameters for deep foundations have also been provided. The equipment shelter foundation can be dimensioned for a net allowable soil bearing pressure of 3,000 psf for isolated spread footings and 2,500 for continuous wall footings.

If shallow foundations are selected, the tower or equipment structure can be supported by shallow foundations bearing on undisturbed, at least **stiff** natural cohesive soils or new lean clay engineered fill or lean concrete placed directly on at least stiff native soils. However, inspection of the bearing conditions should be performed by a geotechnical engineer or representative to identify any potential karst conditions. Any undercut and replacement of unsuitable soils should be replaced with new engineered fill meeting the requirements of the Material Types in the **Site Preparation** section of this report. Additional recommendations for design and construction of foundations are presented in the following sections.

If deep foundations are selected for tower support, the pier should be socketed deeper than 16 feet below existing grade due to several 1-inch clayey shale layers encountered in recovered rock sample. The clayey shale layers are relatively soft, completely weathered, and are potentially

compressible. To mobilize the high strength parameters recommended in the **Deep Foundations** section of our report, the pier should be embedded a minimum of 3 feet into bearing stratum.

EARTHWORK

Earthwork will include clearing and grubbing, excavations and fill placement. The following sections provide recommendations for use in the preparation of specifications for the work. Recommendations include critical quality criteria as necessary to render the site in the state considered in our geotechnical engineering evaluation for foundations.

Site Preparation

The following presents recommendations for site preparation, excavation, and fill placement. Special considerations will be needed where site grading may expose unstable soils. Our recommendations presented for design and construction of earth supported elements (i.e. foundations, slabs, etc.) are contingent upon following the recommendations outlined in this section. Due to the karst potential, high-plasticity clays, and soft soils encountered in our borings, earthwork activities on the project should be observed and evaluated by Terracon.

Prior to placing fill to raise grades (if needed), the site should be grubbed and all vegetation, topsoil and any otherwise unsuitable material should be removed from the construction area. Wet or dry material should either be removed or moisture conditioned and recompact to the project specified densities and moisture contents. Any unsuitable materials should be undercut and replaced with low volume change material meeting the requirements of the **Fill Material Requirements** section of this report. We recommend the actual stripping depth and undercutting of unsuitable soils be observed and documented by a representative of Terracon during construction. After stripping, excavation, and prior to filling to planned final grades, the subgrade should be proof-rolled with a loaded dump truck where possible to aid in locating loose or soft areas. Where proofrolling is not possible, the subgrade should be evaluated by observation and probing to aid in locating unsuitable or unstable areas. Unstable materials delineated by proofrolling should be removed and replaced with suitable compacted fill material.

It should be noted that the on-site clayey soils may be susceptible to disturbance from construction activity, particularly if the soil has high natural moisture and is wetted by surface water or seepage. Therefore, care should be taken during the site grading operation to provide adequate site drainage and minimize disturbance of the bearing soils.

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

May 21, 2018 ■ Terracon Project No. 57185019



Fill Material Requirements

All imported material or on-site material proposed for reuse should be tested to verify conformance with the material property and placement recommendations in this section. Engineered fill should meet the following material property requirements:

Fill Type ¹	USCS Classification	Acceptable Location for Placement
Lean Clay ²	CL (LL<50% & PI>15)	All locations and elevations.
Fat Clay ²	CH (LL>50%)	Not recommended for use as structural fill within 1.5 feet of any structures (i.e. floor slabs and foundations).
Well graded granular and silty gravel	GM-GW GM	All locations and elevations
Low Volume Change Material	CL or GM-GW, GM ³ and (LL<50% & 5<PI<15)	All locations and elevations

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
2. Delineation of lean clays and fat clays should be performed in the field by a qualified geotechnical engineer or their representative, and could require additional laboratory testing.
3. Similar to KYTC DGA or crushed stone base limestone, limestone screenings, or granular material such as sand, gravel or crushed stone containing not more than 14% non-plastic fines.

Fill Compaction Requirements

Structural and general fill should meet the following compaction requirements.

ITEM	DESCRIPTION
Fill Lift Thickness	8-inches or less loose thickness for heavy, self-propelled compaction equipment. 4- to 6-inches loose thickness for hand-guided equipment (i.e. jumping jack or plate compactor).
Compaction Requirements ¹ (Structural Areas)	At least 98% of the materials Standard Proctor maximum dry density (ASTM D 698)
Compaction Requirements (Landscape Areas)	At least 95% of Standard Proctor maximum dry density (provided long-term plans do not include a structure in these areas)

Geotechnical Engineering Report

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

May 21, 2018 ■ Terracon Project No. 57185019



ITEM	DESCRIPTION
Moisture Content - Cohesive Soils	Within the range of 2% below to 3% above the optimum moisture content (OMC) as determined by the Standard Proctor test at the time of placement and compaction
Moisture Content - Granular Material ²	Within workable moisture levels / $\pm 2\%$ of OMC
<ol style="list-style-type: none">1. Engineered fill should be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.2. Specifically, moisture levels should be maintained low enough to allow for satisfactory compaction to be achieved without the cohesionless fill material pumping when proofrolled.	

Utility Trench Backfill

All trench excavations should be made with sufficient working space to permit construction including backfill placement and compaction. If utility trenches are backfilled with relatively clean granular material, they should be capped with at least 18 inches of cohesive soil to reduce the infiltration and conveyance of surface water through the trench backfill.

Utility trenches are a common source of water infiltration and migration. All utility trenches that penetrate beneath the foundation should be effectively sealed to restrict water intrusion and flow through the trenches that could migrate below the foundation with a clay plug. The plug material should consist of clay compacted at a water content at or above the soil's optimum water content. The clay fill should be placed to completely surround the utility line and be compacted in accordance with recommendations in this report.

Grading and Drainage

Effective site drainage is important both during construction and during the life of the structures. Adequate drainage will be necessary to control and divert stormwater runoff away from the site. Final surrounding grades should be sloped away from the foundations to prevent ponding of water.

Excess materials generated during site grading, including soils unsuitable for use as engineered fill (i.e. high-plasticity material, topsoil, etc.), and may be placed as fill in non-structural landscape areas and in the construction of landscape berms. To the extent possible, these materials should be placed in accordance with the **Fill Compaction Requirements**.

Earthwork Construction Considerations

Although the exposed subgrade may be relatively stable upon initial exposure, unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. It is recommended that construction activities be performed during drier weather, if possible. Some subgrade instability should be anticipated if construction is planned during wet weather that may require undercutting and/or stabilization. The use of light construction equipment would aid in reducing subgrade disturbance. Should unstable subgrade conditions develop, stabilization measures will need to be implemented.

Shallow excavations are anticipated to be accomplished with conventional construction equipment. Upon completion of filling and grading, care should be taken to maintain the subgrade water content prior to placement of utilities. Construction traffic over the completed subgrades should be avoided. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. Water collecting over, or adjacent to, construction areas should be removed. If the subgrade freezes, desiccates, saturates, or is disturbed, the affected material should be removed, or the materials should be scarified, moisture conditioned, and recompacted, prior to foundation construction.

At a minimum, all temporary excavations should be sloped or braced as required by OSHA guidelines to provide stability and safe working conditions, and to protect the integrity of adjacent structures. Temporary excavations will probably be required during grading operations and utility trenches. The grading contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations as required, to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, state and federal safety regulations, including the current Occupational Safety and Health Administration (OSHA) Excavation and Trench Safety Standards.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proof-rolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction.

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Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

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SHALLOW FOUNDATIONS

If the site has been prepared in accordance with the recommendations in this report, the following design parameters are applicable for shallow foundations.

Tower Mat Foundation Design Parameters

Parameter	Mat
Maximum net allowable bearing pressure on existing soils or engineered fill placed on acceptable subgrade ¹	3,000 psf
Minimum foundation plan dimensions	24 inches
Required bearing stratum ²	Engineered fill or lean concrete extending to at least stiff clay
Ultimate coefficient of sliding friction	0.30
Ultimate passive pressure ³	350 psf (below 3 feet)
Minimum embedment below finished grade for frost protection ⁴	24 inches
Est. total settlement from structural loads ⁵	< 1 inch

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the mat base elevation. An appropriate factor of safety has been applied.
2. Unsuitable or soft soils should be undercut, and the mat should be deepened to bear on the competent bearing stratum or could bear on lean concrete or new engineered fill extending from the foundation base to competent bearing stratum. Fat clays at this site should be undercut a minimum 18 inches below the mat foundation bearing elevation and replaced with suitable materials.
3. The sides of the excavation for the mat foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.
4. For footings beneath unheated areas.
5. To reduce the effects of seasonal moisture variations in the subgrade soils.
6. The foundation settlement will depend upon embedment depth of the mat, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement.

Equipment Shelter Shallow Foundation Design Parameters

Parameter	Mat	
Maximum net allowable bearing pressure on existing soils or engineered fill placed on acceptable subgrade ¹	3,000 psf	2,500 psf
Minimum foundation plan dimensions	24 inches	18 inches
Required bearing stratum ²	Engineered fill or lean concrete extending to at least stiff clay	
Ultimate coefficient of sliding friction	0.30	
Ultimate passive pressure ³	350 psf (below 3 feet)	
Minimum embedment below finished grade for frost protection ⁴	24 inches	
Est. total settlement from structural loads ⁵	< 1 inch	
Estimated differential settlement ⁵	< 3/4 inch	

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied.
2. Unsuitable or soft soils should be undercut, and the footings should be deepened to bear on the competent bearing stratum or could bear on lean concrete or new engineered fill extending from the foundation base to competent bearing stratum. Fat clays at this site should be undercut a minimum 18 inches and replaced with suitable materials.
3. The sides of the excavation for the spread footing foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.
4. For perimeter footing and footings beneath unheated areas.
5. The foundation settlement will depend upon embedment depth of the footings, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement.

Foundation Construction Considerations

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become excessively dry, disturbed or saturated, or frozen, the affected soil should be removed prior to placing concrete. Place a lean concrete mud-mat over the bearing soils if the excavations must remain open over night or for an extended period of time. It is

Geotechnical Engineering Report

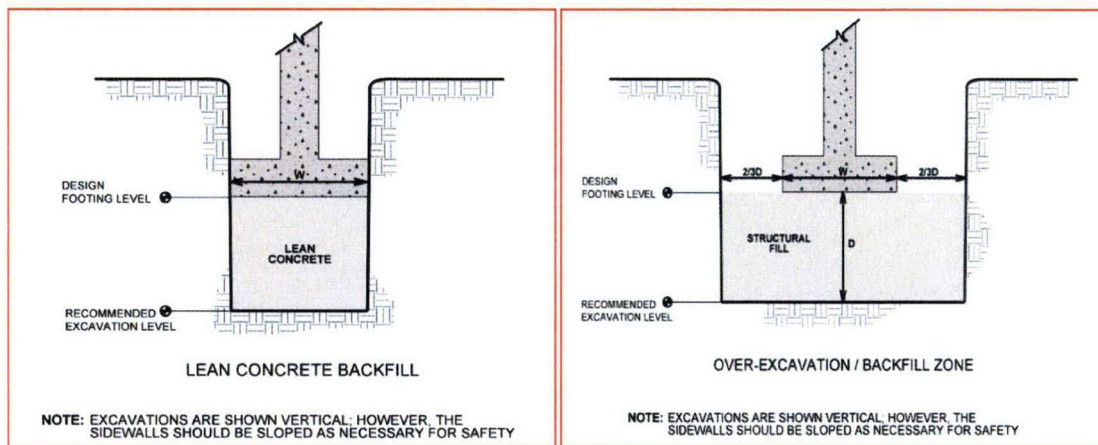
Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

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recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

If unsuitable bearing soils are encountered in footing excavations, the excavations should be extended deeper to suitable soils and the footings could bear directly on these soils at the lower level or on lean concrete backfill (minimum of 500 psi) placed in the excavations. The footings could also bear on properly compacted lean clay backfill extending down to the suitable soils. Overexcavation for compacted lean clay backfill placement below footings should extend laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. The overexcavation should then be backfilled up to the footing base elevation with engineered fill as described in the **Compaction Requirements** section placed in lifts of 8 inches or less in loose thickness and compacted to at least 98 percent of the material's maximum dry density as defined by the Standard Proctor (ASTM D 698). The overexcavation and backfill procedure is illustrated in the following figures for lean concrete or lean clay structural fill.



DEEP FOUNDATIONS

Design/Analysis Parameters for Deep Foundations

Based on the results of the test boring data and laboratory testing, we have developed the following drilled pier soil and rock design parameters:

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Approximate Depth (feet)	Allowable Skin Friction (psf)	Allowable End Bearing Capacity (psf)	Undrained Shear Strength, c (psf)	Unit Weight (pcf)	Strain ϵ_{50}	Lateral Subgrade Modulus, k (pci)	Model
0 – 3	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
Fat Clay 3 – 7.5	300	--	1,500	115	0.007	120	Stiff Clay w/o water
Limestone Bedrock with Clayey Shale Layers 7.5 – 16	5,500	10,000	100,000	155	$k_{rm}=0.00001$	3,000	Strong Rock (RQD=48)
Competent Limestone Bedrock 16 – 37.5	10,000	100,000	300,000	160	$k_{rm}=0.00001$	3,000	Strong Rock (RQD=83)

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety, and the allowable skin friction and bearing capacity have a factor of safety of 2. The cohesion, internal friction angle, lateral subgrade modulus and strain values given in the above table are based on our boring, published values and our past experience with similar soil and 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 the bearing stratum. The allowable end bearing pressure provided in the table has an approximate factor of safety of 3. If the drilled pier is designed using the above parameters and bear within the limestone bedrock, settlement is anticipated to be about ½ inch or less.

Deep Foundation Construction Considerations

Water was introduced into the borehole for our coring operations. Long-term monitoring of the groundwater was not a part of this scope of work. Groundwater could be encountered during the drilling for the drilled pier. If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction.

Due to the combination of potentially soft soils due to karst and groundwater, the contractor should have temporary casing available onsite during construction of the drilled pier to control seepage

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and/or caving soil and/or rock, if encountered. The casing should be extracted from the drilled pier excavation following concrete placement.

Difficult drilling conditions may be encountered due to hard, karst limestone. The contractor should be prepared to penetrate bedrock with chert and competent limestone. Due to the karst features encountered at our boring location, the bottom of the excavation should be inspected carefully by a qualified geotechnical engineer or representative for voids, clay layers, or any otherwise unsuitable bearing conditions due to karst topography.

Drilled piers should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and inspection of the bedrock surface from the ground. The pier should be mobilized 3 feet below the top of the bearing stratum, to mobilize the strength parameters provided.

If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil, if encountered.

Based on compressive strength and rock quality data, we expect that advancement of piers to minimum embedment in rock could be achieved by a rock auger equipped with self-rotating cutter bits or by rock coring. However, advancement method may vary between contractors depending on experience and their evaluation of penetration rates for the site conditions.

The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement. We recommend that the specifications state that reinforcing steel and pier concrete be placed the same day as the shaft is drilled. No completed shaft excavation should be allowed to remain open overnight. It is suitable, however, for the contractor to excavate a portion of the drilled shaft and then complete the shaft excavation the next day.

If pier concrete cannot be placed in dry conditions, a tremie should be used for concrete placement. Free-fall concrete placement in piers will only be acceptable if provisions are taken to avoid striking the concrete on the sides of the hole or reinforcing steel. The use of a bottom-dump hopper or tremie discharging near the bottom of the hole where concrete segregation will be minimized, is recommended. Due to potential sloughing and raveling, foundation concrete quantities may exceed calculated geometric volumes.

Adequate performance of the drilled shaft foundations will be highly dependent on the contractors installation techniques used to construct the foundation elements. At a minimum, the following inspection criteria should be incorporated as a requirement for construction of the drilled piers.

Bearing conditions of the drilled pier foundations should be evaluated by a qualified geotechnical engineer at the time of construction to confirm suitable end bearing on competent bedrock and to

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provide recommendations if unsuitable bearing materials are encountered. Entry of personnel into the drilled pier foundations is not required and is strongly discouraged for this project. The evaluation of the piers should include the following:

- Contractor should advance a test hole with an air track drill through the bedrock bearing surface to a depth of at least two times the pier diameter to check for discontinuities in the bedrock that may require additional rock removal.
- The number of test holes at each pier location would be determined by the geotechnical engineer's representative based on the field test results.
- Significant discontinuous rock layers may require additional rock removal as directed by the engineer's representative.
- Prior to installation of the reinforcing steel cage, the base of each pier should be sounded to check for voids or clay seams in the underlying bedrock. This could be done by dropping the drill rig Kelly bar onto the exposed bedrock surface at selected locations.
- Visual evaluation of the exposed bearing surface should be performed by the engineer's representative to confirm that the base is free from loose material, soil, water or other unsuitable materials. Visual inspection to determine the suitability of the shaft bottom using either a flashlight or reflected light with a mirror may be conducted from the ground surface.

SEISMIC CONSIDERATIONS

Design of buildings and other structures subject to earthquake ground motions requires classification of the upper 100 feet of the site profile in accordance with Chapter 20 of ASCE 7. The Site Class types are listed below and are basically defined by an average value of either shear wave velocity, standard penetration resistance, or undrained shear strength.

- A. Hard Rock
- B. Rock
- C. Very dense soil and soft rock
- D. Stiff soil
- E. Soft clay soil
- F. Soils vulnerable to potential failure or collapse under seismic loading

Based on the results of our site characterization program, we conclude that Site Class B is appropriate for the subject site. Note that the scope of services did not include site profile determination to a depth of 100 feet. Exploration for this project extended to a maximum depth of 37.5 feet below existing grade. We have assumed that the limestone layer encountered above our termination depth extend to 100+ feet.

FLOOR SLABS

Where fat clays are encountered at the subgrade elevation, a minimum 1.5-foot undercut and replacement should be performed below the floor slab bearing elevation. Following the 1.5-foot undercut, the exposed material should pass a proof-roll. Native soils below the floor slab bearing elevation should pass a proof-roll observed by a geotechnical engineer or representative. Please refer to the **Site Preparation** section of this report for additional details regarding the partial undercut and replacement below floor slab subgrade elevation.

Design Parameters

Item	Description
Floor slab support	New engineered fill, at least 1.5 feet of low volume change material (CL), or lean concrete extending to at least very stiff native soils
Modulus of subgrade reaction	100 pounds per square inch per in (psi/in) for point loading conditions
Aggregate base course/capillary break ¹	Minimum 4 inches of free-draining granular material
Vapor Barrier	Project Specific ²
Structural considerations	Floor slabs should be structurally independent of building ³

1. The floor slab design should include a capillary break, comprised of free-draining, compacted, granular material, at least 4 inches thick. Free-draining granular material should have less than 5 percent fines (material passing the #200 sieve).
2. The use of a vapor retarder should be considered beneath concrete slabs on grade that will be covered with wood, tile, carpet or other moisture sensitive or impervious coverings, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.
3. Floor slabs should be structurally independent of any building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation. Where floor slabs are tied to perimeter walls or turn-down slabs to meet structural or other construction objectives, our experience indicates that any differential movement between the walls and slabs will likely be observed in adjacent slab expansion joints or floor slab cracks that occur beyond the length of the structural dowels. The structural engineer should account for this potential differential settlement through use of sufficient control joints, appropriate reinforcing or other means.

Floor Slab Construction Considerations

Prior to construction of grade supported slabs, varying levels of remediation may be required to reestablish stable subgrades within slab areas due to construction traffic, rainfall, disturbance, desiccation, etc. As a minimum, the following measures are recommended.

- Confirm that interior trench backfill placed beneath slabs is compacted in accordance with recommendations outlined in the **Site Preparation** section of this report.
- All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the stone base and concrete.

Floor Slab Subgrade Preparation

On most project sites, the site grading is generally accomplished early in the construction phase. However, as construction proceeds, the subgrade may be disturbed due to utility excavations, construction traffic, desiccation, rainfall, etc. As a result, the floor slab subgrade may not be suitable for placement of aggregate base and concrete and corrective action will be required. Additional protection, stabilization measures may be necessary and requires specific field evaluation. We recommend floor subgrades be maintained in a relatively moist condition until floor slabs are constructed. If the subgrade should become desiccated prior to construction of floor slabs, the affected material should be removed or the materials scarified, moistened, and recompact. Upon completion of grading operations in the building areas, care should be taken to maintain the recommended subgrade moisture content and density prior to construction of the equipment building floor slabs.

We recommend the area underlying the floor slab be rough graded and then thoroughly proof-rolled with a loaded tandem-axle dump truck prior to final grading and placement of aggregate base. Particular attention should be paid to high traffic areas that were rutted and disturbed earlier and to areas where backfilled trenches are located. Areas where unsuitable conditions are located should be repaired by removing and replacing the affected material with properly compacted fill. All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the aggregate base and concrete.

GENERAL COMMENTS

As the project progressed, we addressed assumptions by incorporating information provided by the design team, if any. Revised project information that reflects actual conditions important to our services has been reflected in the final report. The design team should collaborate with Terracon to confirm these assumptions and to prepare the final design plans and specifications. This facilitates the incorporation of our opinions related to implementation of our geotechnical

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recommendations. Any information conveyed prior to the final report is for informational purposes only and should not be considered or used for decision-making purposes.

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Natural variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in the final report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our scope of services 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.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third party beneficiaries intended. Any third party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client, and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

ATTACHMENTS

EXPLORATION AND TESTING PROCEDURES

Field Exploration

A geotechnical engineering study has been completed for the proposed Gravel Switch Tower, located at 149 Preston Loop in Gravel Switch, Marion County, Kentucky. One test boring was advanced to a depth about 37.5 feet below existing grade. Individual boring logs and **Exploration Plan (Exhibit A-2)** are included in the appendix.

Boring Layout and Elevations: The location of the tower center were established by Landmark Surveying Co., Inc representative Mr. Darren Helms. Elevations, included in our boring logs, were obtained from Site Candidate Information for Gravel Switch prepared by Mr. Darren Helms.

Subsurface Exploration Procedures: We advanced the borings with a track-mounted drill rig using continuous flight augers (hollow stem). Four split-barrel samples were obtained in the upper 10 feet of the boring. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration was recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. This value is used to estimate the in-situ relative density of cohesionless soils and consistency of cohesive soils. We also obtained a thin-walled Shelby tube sample to obtain a relatively undisturbed soil sample and perform laboratory strength testing.

At auger refusal, we obtained a rock sample using a double-walled, diamond-faced, NX core barrel. The rock samples obtained were placed in a core box, sealed and returned to our laboratory for observation, classification and compression testing.

The sampling depths, penetration distances, and other sampling information were recorded on the field boring logs. The samples were placed in appropriate containers and taken to our soil laboratory for testing and classification by a geotechnical engineer. Our exploration team prepared field boring logs as part of the drilling operations. The field logs included visual classifications of the materials encountered during drilling and our interpretation of the subsurface conditions between samples. Final boring logs were prepared from the field logs. The final boring logs represent the geotechnical engineer's interpretation of the field logs and include modifications based on observations and tests of the samples in our laboratory. Information provided on the test boring logs include soil descriptions, consistency evaluations, boring depths, sampling intervals, and groundwater conditions.

We observed groundwater levels during drilling and sampling. For safety purposes, the borings were backfilled with auger cuttings immediately after completion.

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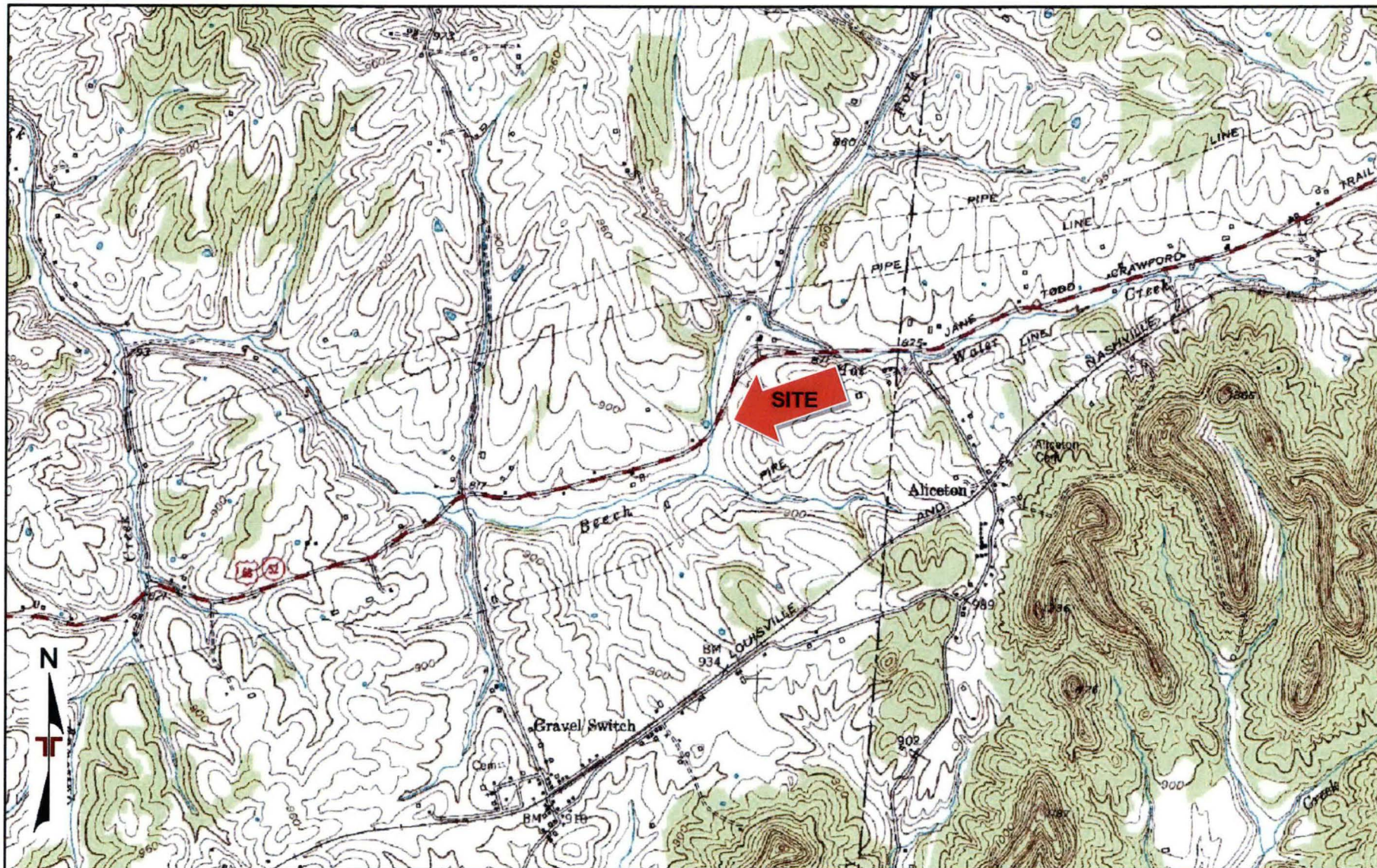
Laboratory Testing

The project engineer reviewed the field data and assigned various laboratory tests to better understand the engineering properties of the various soil and rock strata as necessary for this project. Procedural standards noted below are for reference to methodology in general. In some cases, variations to methods are applied because of local practice or professional judgment. Standards noted below include reference to other, related standards. Such references are not necessarily applicable to describe the specific test performed.

- ASTM D2216-10 Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
- ASTM D4318-10e1 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
- ASTM D7012 Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

The laboratory testing program included examination of soil samples by the project engineer. Based on the material's texture and plasticity, we described and classified the soil samples in accordance with the Unified Soil Classification System.

SITE LOCATION AND EXPLORATION PLANS



TOPOGRAPHIC MAP IMAGE COURTESY OF
THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: GRAVEL SWITCH,
KY (1/1/1953).

DIAGRAM IS FOR GENERAL LOCATION ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION
PURPOSES

Project Manager:	RCO	Project No.	57185019
Drawn by:	RCO	Scale:	1"=2,000'
Checked by:	BWT	File Name:	Plans
Approved by:	BWT	Date:	4/5/2018

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY 40223-3915

SITE LOCATION PLAN

Proposed Gravel Switch Tower
149 Preston Loop
Gravel Switch, Marion County, KY

Exhibit

A-1A



TOPOGRAPHIC MAP IMAGE COURTESY OF
THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: GRAVEL SWITCH,
KY (1/1/1953).

DIAGRAM IS FOR GENERAL LOCATION ONLY,
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Project Manager:	RCO
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File Name:	Plans
Date:	4/5/2018

Terracon

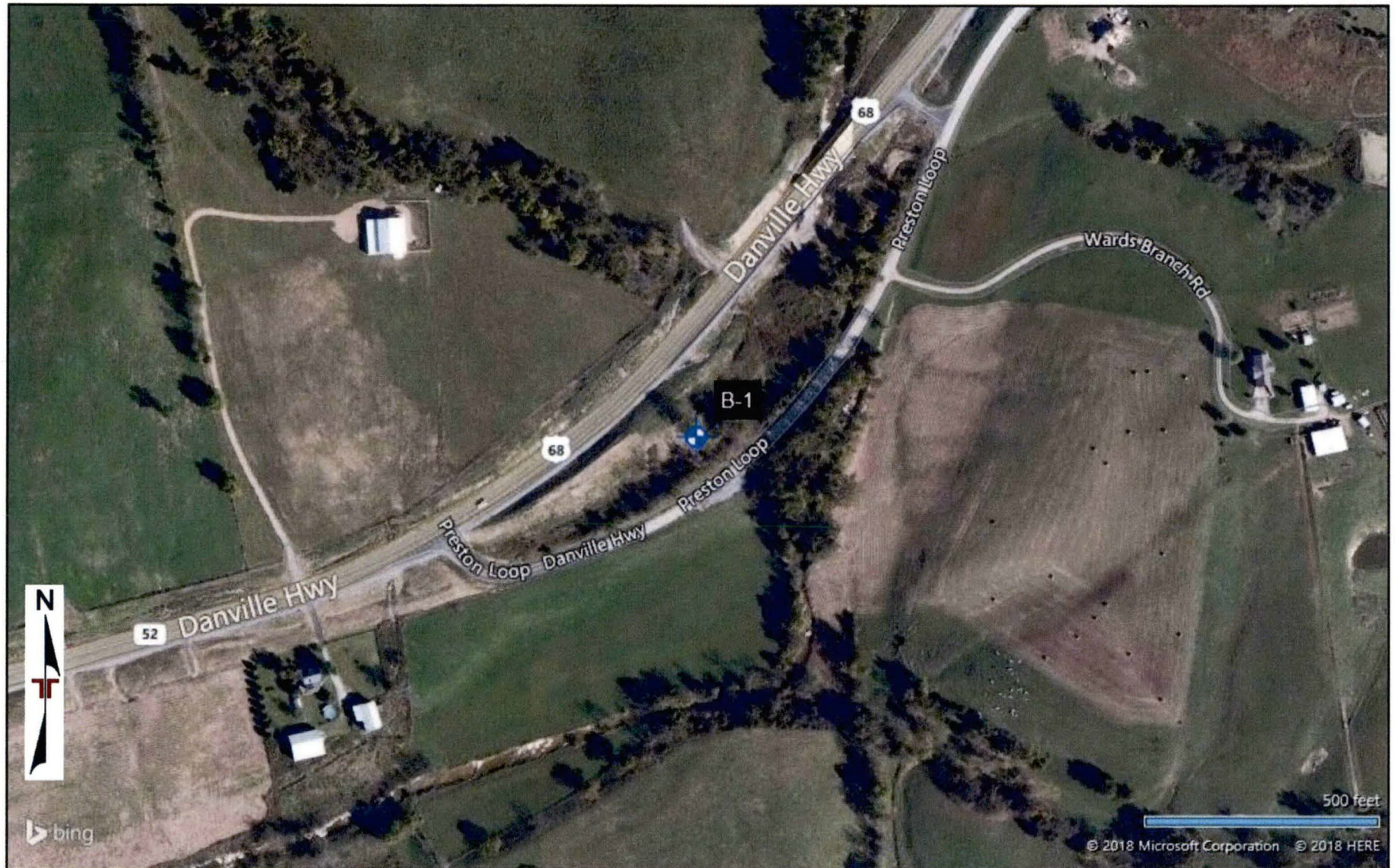
13050 Eastgate Park Way Ste 101
Louisville, KY 40223-3915

KARST POTENTIAL MAP

Proposed Gravel Switch Tower
149 Preston Loop
Gravel Switch, Marion County, KY

Exhibit

A-1B



<p>AERIAL PHOTOGRAPHY PROVIDED BY MICROSOFT BING MAPS</p> <p>DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES</p>	<p>Project Manager: RCO</p> <p>Drawn by: RCO</p> <p>Checked by: BWT</p> <p>Approved by: BWT</p>	<p>Project No. 57185019</p> <p>Scale: AS SHOWN</p> <p>File Name: Plans</p> <p>Date: 4/5/2018</p>	<p>Terracon</p> <p>13050 Eastgate Park Way Ste 101 Louisville, KY 40223-3915</p>	<p>EXPLORATION PLAN</p> <p>Proposed Gravel Switch Tower 149 Preston Loop Gravel Switch, Marion County, KY</p>	<p>Exhibit</p> <p>A-2</p>
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EXPLORATION RESULTS






BORING LOG NO. B-1

Page 1 of 1

PROJECT: Proposed Gravel Switch ARC Tower

CLIENT: Bluegrass Cellular Partnership
Elizabethtown, KY

SITE: U.S. HWY 68 (Danville Highway)
Gravel Switch, KY

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 37.592944° Longitude: -85.044861° Approximate Surface Elev: 855 (Ft.) +/-	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (In.)	FIELD TEST RESULTS	ROCK CORE UNIAxIAL STRENGTH (psi)	ROCK CORE UNIT WEIGHT (pcf)	LABORATORY HP (pcf)	UNCONFINED COMPRESSIVE STRENGTH (pcf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)	ATTERBERG LIMITS LL-PL-PI
	DEPTH ELEVATION (Ft.)												
	1.0 FILL - TOPSOIL 854+/-												
	3.0 LEAN CLAY (CL) , light brown, medium stiff 852+/-				18	1-2-3 N=5			3500 (HP)		22		39-21-18
	5.5 FAT CLAY (CH) , dark brown, stiff, with black oxidation nodules 849.5+/-	5			18	4-5-5 N=10			4500 (HP)		21		
	7.0 FAT CLAY (CH) , dark gray, very stiff 848+/-				15	5-13-50/4"			7500 (HP)		25		
	7.5 WEATHERED LIMESTONE* 847.5+/-												
	LIMESTONE* , with interbedded shale, light gray with dark gray, unweathered, medium strong	10					7250	162.5					
	- with approximate 1-inch completely weathered shale layers at 12.5, 14.5 and 15.5 ft	15			115	RQD = 48%							
	- with 1-inch clayey shale-infilled vertical fractures at 14 and 15 ft	20			120	RQD = 83%	9290	164.4					
	- with a 1-inch highly weathered at 16 ft	25											
	- with a 6-inch unweathered shale layer at 34.5 ft	30			120	RQD = 86%	4880	163.0					
	- with a 2-inch unweathered shale layer at 35 ft	35											
	37.5 Boring Terminated at 37.5 Feet 817.5+/-												

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3.25-inch Hollow Stem Auger

See Exhibit A-3 for description of field procedures.
See Appendix B for description of laboratory procedures and additional data (if any).
See Appendix C for explanation of symbols and abbreviations.
Based on review of Site Candidate Information Sketch

Notes:

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

WATER LEVEL OBSERVATIONS

No free water observed

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

Boring Started: 03-19-3018

Drill Rig: B-53

Project No.: 57185019

Boring Completed: 03-19-3018

Driller: Ron Mathes

Exhibit: A-3

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 57185019 PROPOSED GRAVEL SWITCH TERRACON DATATEMPLATE.GDT 4/5/18

Rock Core Photograph Log

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

April 6, 2018 ■ Terracon Project 57185019

Terracon

Clayey Shale
Layers and Infilling



PHOTO #1 – Rock core sample at B-1 from about 7.5 to 17.5 feet below existing grade



PHOTO #2 – Rock core sample at B-1 from about 17.5 to 27.5 feet below existing grade

Rock Core Photograph Log

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

April 6, 2018 ■ Terracon Project 57185008


Terracon



PHOTO #3 – Rock core sample at B-1 from about 27.5 to 37.5 feet below existing grade

Summary of Laboratory Results

Sheet 1 of 1

BORING ID	Depth	USCS Classification and Soil Description	Compressive Strength (psf)	Liquid Limit	Plastic Limit	Plasticity Index	% <#200 Sieve	% Gravel	% Sand	% Silt	% Clay	Water Content (%)	Dry Density (pcf)
B-1	1 - 2.5	LEAN CLAY		39	21	18						21.8	
B-1	3.5 - 5	FAT CLAY										20.8	
B-1	6 - 7.3	FAT CLAY										24.6	
B-1	7.5 - 17.5												
B-1	17.5 - 27.5												
B-1	27.5 - 37.5												
<div> <div>PROJECT: Proposed Gravel Switch ARC Tower</div> <div> <div>SITE: 149 Preston Loop Gravel Switch, KY</div> <div> <div>  <div> 13050 Eastgate Park Way Ste 101 Louisville, KY </div> </div> </div> </div> <div>PROJECT NUMBER: 57185019</div> <div>CLIENT: Bluegrass Cellular Partnership Elizabethtown, KY</div> <div>EXHIBIT: B-1</div> </div>													

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. OLD-LAB SUMMARY: USCS-NO ASSIGNMENT 57185019 PROPOSED GRAVEL S.GPJ TERRACON_DATATEMPLATE.GDT 4/6/18

ASTM D4318



PROJECT: Proposed Gravel Switch ARC Tower

SITE: 149 Preston Loop
Gravel Switch, KY

PROJECT NUMBER: 57185019

CLIENT: Bluegrass Cellular Partnership
Elizabethtown, KY



EXHIBIT: B-2

Terracon
13050 Eastgate Park Way Ste 101
Louisville, KY

SUPPORTING INFORMATION

GENERAL NOTES

DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

SAMPLING			WATER LEVEL			FIELD TESTS		
		Shelby Tube			Split Spoon		N	Standard Penetration Test Resistance (Blows/Ft.)
							(HP)	Hand Penetrometer
							(T)	Torvane
						(DCP)	Dynamic Cone Penetrometer	
						(PID)	Photo-Ionization Detector	
						(OVA)	Organic Vapor Analyzer	

Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.

DESCRIPTIVE SOIL CLASSIFICATION

Soil classification is based on the Unified Soil 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.

LOCATION AND ELEVATION NOTES

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

STRENGTH TERMS	RELATIVE DENSITY OF COARSE-GRAINED SOILS		CONSISTENCY OF FINE-GRAINED SOILS		
	(More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance		(50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance		
	Descriptive Term (Density)	Standard Penetration or N-Value Blows/Ft.	Descriptive Term (Consistency)	Unconfined Compressive Strength Qu, (psf)	Standard Penetration or N-Value Blows/Ft.
	Very Loose	0 - 3	Very Soft	less than 500	0 - 2
	Loose	4 - 9	Soft	500 to 1,000	2 - 3
	Medium Dense	10 - 29	Medium Stiff	1,000 to 2,000	4 - 6
	Dense	30 - 50	Stiff	2,000 to 4,000	7 - 12
	Very Dense	> 50	Very Stiff	4,000 to 8,000	13 - 26
			Hard	> 8,000	> 26

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. (300 mm)
Cobbles	12 in. to 3 in. (300mm to 75mm)
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
Modifier	> 12

PLASTICITY DESCRIPTION

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

UNIFIED SOIL CLASSIFICATION SYSTEM

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

May 21, 2018 ■ Terracon Project No. 57185019



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:	Gu ≥ 4 and 1 ≤ Cc ≤ 3 ^E	GW	Well-graded gravel ^F		
		Less than 5% fines ^C	Cu < 4 and/or 1 > Cc > 3 ^E	GP	Poorly graded gravel ^F		
		Gravels with Fines:	Fines classify as ML or MH	GM	Silty gravel ^{F, G, H}		
		More than 12% fines ^C	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:	Cu ≥ 6 and 1 ≤ Cc ≤ 3 ^E	SW	Well-graded sand ^I		
		Less than 5% fines ^D	Cu < 6 and/or 1 > Cc > 3 ^E	SP	Poorly graded sand ^I		
		Sands with Fines:	Fines classify as ML or MH	SM	Silty sand ^{G, H, I}		
		More than 12% fines ^D	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"	CL	Lean clay ^{K, L, M}
					PI < 4 or plots below "A" line ^J	ML	Silt ^{K, L, M}
Organic:	Liquid limit - oven dried			< 0.75	OL	Organic clay ^{K, L, M, N}	
	Liquid limit - not dried				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 plots below "A" line	MH	Elastic Silt ^{K, L, M}		
	Organic:		Liquid limit - oven dried	< 0.75	OH	Organic clay ^{K, L, M, P}	
			Liquid limit - not dried			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-inch (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 $Cu = D_{60}/D_{10}$ $Cc =$

^F If soil contains $\geq 15\%$ 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 $\geq 15\%$ 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 $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

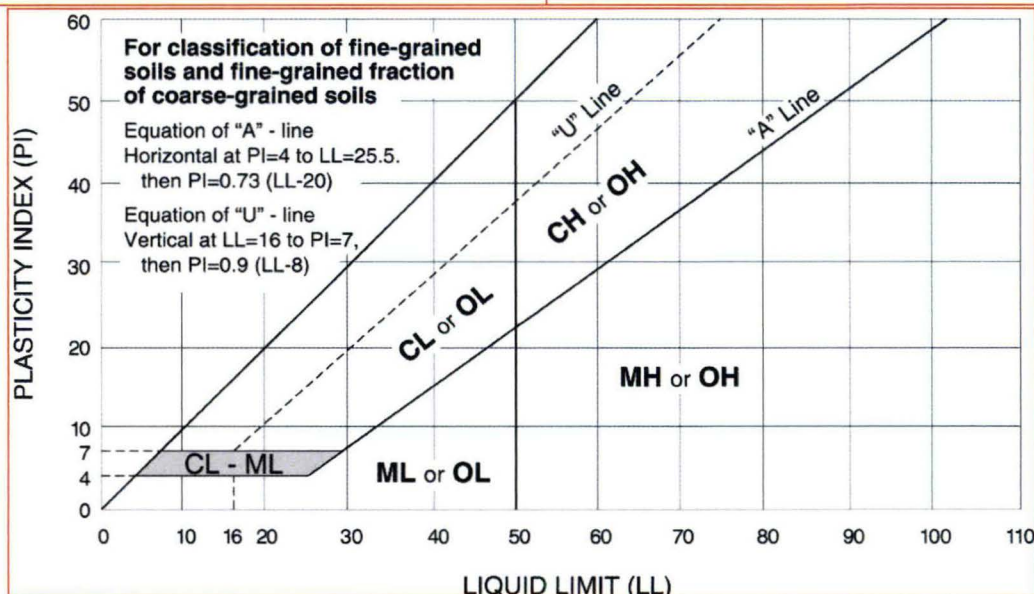
^M If soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

^N $PI \geq 4$ 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.



DESCRIPTION OF ROCK PROPERTIES

Gravel Switch Tower ■ Gravel Switch, Marion County, Kentucky

May 21, 2018 ■ Terracon Project No. 57185019



WEATHERING	
Term	Description
Unweathered	No visible sign of rock material weathering, perhaps slight discoloration on major discontinuity surfaces.
Slightly weathered	Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discolored by weathering and may be somewhat weaker externally than in its fresh condition.
Moderately weathered	Less than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a continuous framework or as corestones.
Highly weathered	More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a discontinuous framework or as corestones.
Completely weathered	All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact.
Residual soil	All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has not been significantly transported.

STRENGTH OR HARDNESS		
Description	Field Identification	Uniaxial Compressive Strength, psi (MPa)
Extremely weak	Indented by thumbnail	40-150 (0.3-1)
Very weak	Crumbles under firm blows with point of geological hammer, can be peeled by a pocket knife	150-700 (1-5)
Weak rock	Can be peeled by a pocket knife with difficulty, shallow indentations made by firm blow with point of geological hammer	700-4,000 (5-30)
Medium strong	Cannot be scraped or peeled with a pocket knife, specimen can be fractured with single firm blow of geological hammer	4,000-7,000 (30-50)
Strong rock	Specimen requires more than one blow of geological hammer to fracture it	7,000-15,000 (50-100)
Very strong	Specimen requires many blows of geological hammer to fracture it	15,000-36,000 (100-250)
Extremely strong	Specimen can only be chipped with geological hammer	>36,000 (>250)

DISCONTINUITY DESCRIPTION			
Fracture Spacing (Joints, Faults, Other Fractures)		Bedding Spacing (May Include Foliation or Banding)	
Description	Spacing	Description	Spacing
Extremely close	< ¼ in (<19 mm)	Laminated	< ½ in (<12 mm)
Very close	¼ in – 2-1/2 in (19 - 60 mm)	Very thin	½ in – 2 in (12 – 50 mm)
Close	2-1/2 in – 8 in (60 – 200 mm)	Thin	2 in – 1 ft. (50 – 300 mm)
Moderate	8 in – 2 ft. (200 – 600 mm)	Medium	1 ft. – 3 ft. (300 – 900 mm)
Wide	2 ft. – 6 ft. (600 mm – 2.0 m)	Thick	3 ft. – 10 ft. (900 mm – 3 m)
Very Wide	6 ft. – 20 ft. (2.0 – 6 m)	Massive	> 10 ft. (3 m)

Discontinuity Orientation (Angle): Measure the angle of discontinuity relative to a plane perpendicular to the longitudinal axis of the core. (For most cases, the core axis is vertical; therefore, the plane perpendicular to the core axis is horizontal.) For example, a horizontal bedding plane would have a 0-degree angle.

ROCK QUALITY DESIGNATION (RQD) ¹	
Description	RQD Value (%)
Very Poor	0 - 25
Poor	25 - 50
Fair	50 - 75
Good	75 - 90
Excellent	90 - 100

¹. The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percentage of the total core run length.

Reference: U.S. Department of Transportation, Federal Highway Administration, Publication No FHWA-NHI-10-034, December 2009
Technical Manual for Design and Construction of Road Tunnels – Civil Elements



BLUEGRASS CELLULAR

BLUEGRASS CELLULAR
PROJECT SUPERVISOR:

DATE: _____

CITY REPRESENTATIVE:

TITLE: _____

DATE: _____

PROPERTY OWNER/OWNERS:

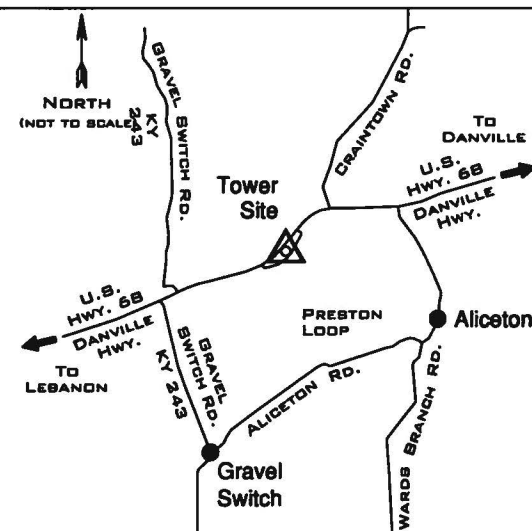
DATE: _____

TOWER OWNER/OWNERS:

DATE: _____

**911 ADDRESS: 149 PRESTON LOOP
GRAVEL SWITCH, KY.
40328**

TOWER LATITUDE & LONGITUDE
N 37* 35' 34.44" W 85* 02' 41.75"



DIRECTIONS TO SITE

DIRECTIONS TO SITE

FROM ELIZABETHTOWN, KENTUCKY; TRAVEL SOUTHEASTERLY ON KENTUCKY HIGHWAY 6 (LINCOLN PARKWAY) FOR ABOUT 1.1 MILES TO DOWNTOWN HODGSONVILLE AND U.S. HIGHWAY 31E; TRAVEL EASTERLY ON U.S. HIGHWAY 31E FOR ABOUT 5 MILES TO KENTUCKY HIGHWAY 84 IN WHITE CITY; TURN RIGHT ONTO KENTUCKY HIGHWAY 84 AND CONTINUE TO TRAVEL EASTERLY FOR ABOUT 18 MILES TO RAYWICK; FROM RAYWICK, CONTINUE EASTERLY ON KENTUCKY HIGHWAY 84 (RAYWICK ROAD) FOR 4.6 MILES TO KENTUCKY HIGHWAY 428; TURN RIGHT ONTO KENTUCKY HIGHWAY 428 AND CONTINUE EASTERLY FOR 1.1 MILES TO THE INTERSECTION OF LEBANON ROAD; TURN LEFT ONTO U.S. HIGHWAY 68 AND TRAVEL NORTHEASTERLY FOR 2.5 MILES TO DOWNTOWN LEBANON; FROM LEBANON, TRAVEL EASTERLY ON U.S. HIGHWAY 68 (DANVILLE HIGHWAY) FOR 11.9 MILES TO PRESTON LOOP, WHICH IS 0.8 MILES WEST OF THE BOYLE COUNTY LINE; TURN RIGHT ONTO PRESTON LOOP AND TRAVEL NORTHEASTERLY FOR 0.15 MILES TO A DIRT AND STONE LANE ON THE LEFT OR NORTH SIDE OF THE ROAD; TURN LEFT ONTO THE LANE AND TRAVEL NORTHWESTERLY FOR 251 FEET TO THE WHITE SITE, WHICH LIES IN A GRASS AREA BETWEEN U.S. HIGHWAY 68 AND PRESTON LOOP.

SITE DATA

BLUEGRASS PROJECT SUPERVISOR: MASON McDOWELL (270)734-1002



ROBIN BECKER
RSB DESIGN
(502) 599-9427

SHEET INDEX

[illegible]

Marion County, Kentucky

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2018 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

DESIGNATION: GRAVEL SWITCH
SITE ID#: NONE
HORIZONTAL DATUM: NAD 83 (2011)
LATITUDE: 37°35'34.44" NORTH
LONGITUDE: 85°02'41.75" WEST
VERTICAL DATUM: NAVD 88
GROUND ELEVATION: 855.8 FEET (260.85 M)

STATE PLANE COORDINATES
NORTHING: 2,099,776.87 FEET
(640,013.270 M)
EASTING: 1,844,699.18 FEET
(562,265.435 M)

**LANDOWNERS: ALLEN MINOR HARMON, JR.
AND PEGGY H. BROWN**

**ADDRESS: 2702 OAKWOOD DRIVE
BARDSTOWN, KY 40004**

CONTACT PERSON: ALLEN MINOR HARMON
PHONE NUMBER: 502-510-0914

PVA MAP NUMBER: 101-010

NORTHING: 2,099,761 FEET (640,008 M)
EASTING: 1,844,616 FEET (562,240 M)
ELEVATION: 858.27 FEET (261.601 M)

DESCRIPTION: A RAILROAD SPIKE SET IN THE NORTHWEST SIDE OF A UTILITY POLE, 12' ABOVE GRADE, THAT IS 85 FEET WESTERLY OF THE CENTER OF THE TOWER.

ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) FOR MARION COUNTY, KENTUCKY AND INCORPORATED AREAS, MAP NO. 21155002250, DATED JANUARY 6, 2010, THE SUBJECT SITE LIES WITHIN "OTHER AREAS - ZONE X". THIS ZONE IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".

FROM ELIZABETHTOWN, KENTUCKY: TRAVEL
SOUTHEASTERLY ON KENTUCKY HIGHWAY 61
ABOUT 1.5 MILES TO THE INTERSECTION OF
DOWNTOWN HOOVERVILLE AND U.S. HIGHWAY
31E; TRAVEL EASTERLY ON U.S. HIGHWAY
31E ABOUT 1.5 MILES TO THE INTERSECTION
OF U.S. HIGHWAY 31E AND U.S. HIGHWAY
54 IN WHITE OAK; TURN RIGHT ONTO
KENTUCKY HIGHWAY 54 AND CONTINUE TO
TRAVEL EASTERLY FOR ABOUT 1.8 MILES TO
THE INTERSECTION OF PRESTON LANE
ON KENTUCKY HIGHWAY 54 (RAYMOND ROAD)
FOR 4.5 MILES TO KENTUCKY HIGHWAY 42S;
AND CONTINUE EASTERLY FOR 3.4 MILES TO
U.S. HIGHWAY 68 (CAMPELLEVILLE ROAD);
TURN NORTHEASTERLY FOR 2.6 MILES TO
DOWNTOWN LEBANON; FROM LEBANON, TRAVEL
EASTERLY ON U.S. HIGHWAY 68 (PRESTON
HIGHWAY) FOR 11.9 MILES TO PRESTON LOOP,
WHICH IS 0.8 MILES WEST OF THE BOYLE
COUNTY LINE; TURN RIGHT ONTO PRESTON
LOOP AND TRAVEL NORTHEASTERLY FOR 0.15
MILES TO A DIRT AND STONE LANE ON THE LEFT
SIDE OF THE ROAD; TURN RIGHT ONTO THE
LANE AND TRAVEL NORTHWESTERLY FOR
250 FEET TO THE TOWER SITE, WHICH LIES IN
A FIELD BETWEEN U.S. HIGHWAY 68 AND
PRESTON LOOP.

CORNER OF THE 14.626-ACRE TRACT DESCRIBED
IN DEED TO THE COMMONWEALTH OF KENTUCKY
IN DEED 270, PAGE 516 IN THE OFFICE OF THE
COUNTY CLERK OF MARION COUNTY, KENTUCKY.
STATION 137+00.00, 100' RIGHT PER PLANS
FOR U.S. HIGHWAY 68, PROJECT NOS. JLO3
011 0068 000-002 AND JLO3 078 0068
022-024, DATED JANUARY 20, 2010.

A TRACT OF LAND THAT IS LOCATED 1,900 FEET SOUTHWESTERLY OF THE INTERSECTION OF U.S. HIGHWAY 68 (DANVILLE HIGHWAY) AND CRAINTOWN ROAD IN THE GRAVEL SWITCH COMMUNITY OF MARION COUNTY, KENTUCKY; SAID TRACT BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 6-INCH SQUARE CONCRETE RIGHT OF WAY MONUMENT
 FOUND EXPOSED 24 INCHES AT A CORNER IN THE SOUTHEASTERN BOUNDARY
 OF THE 1ST 1/4 SECTION 36, TOWNSHIP 35 NORTH, RANGE 3E, EAST 1/2
 OF SECTION 36, TOWNSHIP 35 NORTH, RANGE 3E, EAST 1/2 OF SECTION
 OF KENTUCKY ON APRIL 4, 2008 IN DEED BOOK 270, PAGE 516 IN THE OFFICE
 OF THE COUNTY CLERK OF MARION COUNTY, KENTUCKY; SAID MONUMENT BEING
 137.000' NOD, 100.00' FEET RIGHT, PER PROJECT NOB: JLC3 011 0068
 000-002 AND JLC3 078 0068 022-024, DATED JANUARY 20, 2010;
 THENCE, ALONG SAID RIGHT OF WAY, SOUTH 50 DEGREES 03 MINUTES 14
 SECONDS EAST 100.00 FEET TO A 3/8-INCH REBAR SET FLUSH WITH A BURY
 CAP INSCRIBED "O.L. HELM PLB 3386" (REFERRED TO AS A REBAR SET IN
 THIS INSTRUMENT); THENCE, SOUTH 50 DEGREES 03 MINUTES 14 SECONDS
 EAST 100.00 FEET TO A REBAR SET FLUSH; THENCE SOUTH 39 DEGREES 56
 MINUTES 45 SECONDS EAST 100.00 FEET TO A REBAR SET FLUSH; THENCE
 SOUTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 100.00 FEET TO A
 REBAR SET FLUSH; THENCE NORTH 39 DEGREES 56 MINUTES 45 SECONDS
 WEST 100.00 FEET TO A REBAR SET FLUSH; THENCE, BEGINNING AND CONTAINING 1.184 ACRES
 (8,000 SQUARE FEET), MORE OR LESS.

TOGETHER WITH 20-FOOT WIDE ACCESS AND UTILITY EASEMENT FROM THE ABOVE-DESCRIBED C. 184-ACRE LEASE TRACT TO PRESTON LOG; SAID EASEMENT BEING DESCRIBED AS FOLLOWS: BEGIN AT THE NORTH CORNER OF THE 160-ACRE TRACT OF LAND HEREIN REFERRED TO AS "THE CORNER"; THENCE NORTH 79 DEGREES 00 MINUTES EAST ALONG A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "O.L. HELMS PLE 3396"; THENCE NORTH 39 DEGREE 56 MINUTES 48 SECONDS WEST 30.00 FEET; THENCE SOUTH 55 DEGREES 19 MINUTES 51 SECONDS EAST 100 FEET; THENCE SOUTH 55 DEGREES 19 MINUTES 51 SECONDS EAST 100 FEET (NORTH 55 DEGREE 19 MINUTE 51 SECOND HIGHWAY); THENCE, ALONG SAID RIGHT OF WAY, NORTH 50 DEGREES 03 MINUTES 14 SECONDS EAST 127.55 FEET; THENCE, LEAVING SAID RIGHT OF WAY, SOUTHWESTERLY 19 DEGREES 51 MINUTES 51 SECONDS EAST A RADIUS 55.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 84 DEGREES 37 MINUTES 55 SECONDS EAST AND A LENGTH OF 78.81 FEET; THENCE SOUTH 39 DEGREES 19 MINUTES 04 SECONDS EAST 100 FEET; THENCE NORTHEAST 19 DEGREES 51 MINUTES 51 SECONDS WEST 100 FEET (FROM THE CENTERLINE); THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, SOUTH 45 DEGREES 34 MINUTES 03 SECONDS WEST 20.08 FEET; THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, NORTH 50 DEGREES 03 MINUTES 14 SECONDS EAST 100 FEET; THENCE NORTHWESTERLY 55.36 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 84 DEGREES 37 MINUTES 55 SECONDS WEST AND A LENGTH OF 78.81 FEET; THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, SOUTH 39 DEGREES 19 MINUTES 04 SECONDS WEST 37.55 FEET TO A 5/8-INCH REBAR SET FLUSH WITH A SAID HELMS SURVEY CAP AT THE NORTH CORNER OF THE ABOVE-DESCRIBED TRACT OF LAND; THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, NORTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 100.00 FEET TO THE POINT OF BEGINNING.

THE BEARING SYSTEM OF THIS DESCRIPTION IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2018 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORDS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

THIS DESCRIPTION IS BASED UPON A SURVEY COMPLETED BY LANDMARK SURVEYING CO., INC. AND CERTIFIED BY DARREN L. HELMS, P.L.S. 3386, ON MAY 31, 2018.

SOURCE OF TITLE: BEING A PORTION OF AND LYING ENTIRELY WITHIN THE LAND DESCRIBED IN DEED TO PERRY M. BROWN AND ALLEN MINOR HARMON ON JUNE 28, 2005 IN DEED BOOK 251, PAGE 355 IN THE OFFICE OF THE COUNTY CLERK OF MARION COUNTY, KENTUCKY.

1. ANY ENCUMBRANCES AND LANDOWNER INFORMATION SHOWN HEREON, REGARDING THE SUBJECT TRACT, ARE BASED UPON A TITLE SEARCH COMPLETED BY ABSTRACTS & TITLES, INC. OF LOUISVILLE, KENTUCKY, DATED MARCH 13, 2018, EXAM NO. 232492.

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

3. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAN WAS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL OF THE TOPOGRAPHIC FEATURES LOCATED AT THE SUBJECT SITE.

4. ACCORDING TO THE OFFICE OF MR. DAVID R. DAUBERTY, MARION COUNTY JUDGE EXECUTIVE, NO LOCAL PLANNING UNIT EXISTS WHICH COVERS THE GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 270-592-3431 FOR CONFIRMATION.

5. THE PROPOSED LOCATION OF THE GRAVEL SWITCH TOWER SITE WILL BE LOCATED OUTSIDE OF AN INCORPORATED CITY.

6. THE ROAD RIGHT OF WAYS SHOWN HEREON WERE DETERMINED FROM PLANS PROVIDED BY THE KENTUCKY TRANSPORTATION CABINET - PROJECT NO. 78-22, DATED MAY 21, 1941 (PRESTON LOOP) AND PROJECT NOS. JL03 011 0068 000-002 AND JL03 078 0068 022-024, DATED JANUARY 20, 2010 (U.S. HIGHWAY 68).

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN COMPILED FROM A SURVEY ACTUALLY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON APRIL 27, 2015 BY THE METHOD OF REAL TIME KINEMATIC GPS SURVEY AND A RANDOM TRAVERSE WITH SIDESHOTS; THAT THE DIRECTIONS AND DISTANCES SHOWN HEREON ARE BASED UPON AN ADJUSTED TRAVERSE; THAT THE RELATIVE POSITIONS, ALONG WITH THE POINT ON THE SURVEY IS BETTER THAN 1 CM TO 200 PPM AND THAT THIS PLAN REPRESENTS A RURAL BOUNDARY SURVEY AND COMPLIES WITH THE REQUIREMENTS OF 201 KAR 18.13(D).

DARREN L. HELMB, P.L.B. 3386

DATE _____

149 Preston Loop

Gravel Switch, Kentucky 40328

2902 Bina Road

Elizabethtown, KY 42701

DATE	DRAWN BY	CHECKED BY
May 31, 2016	J. J. Hargilligan	J. J. Hargilligan

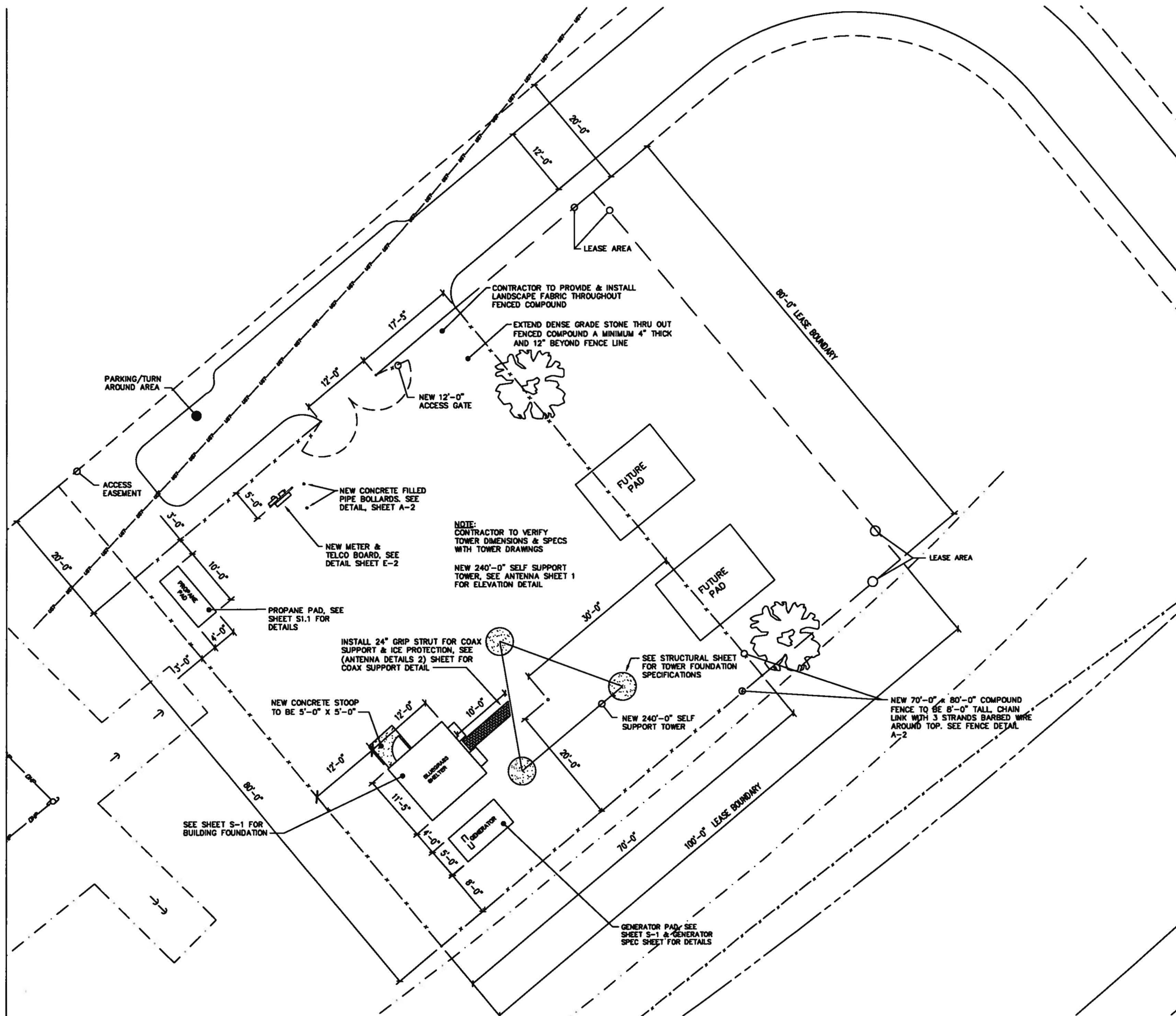
SHEET No.

1

of 1 SHEETS

FILE NAME

gravel.dwg



GENERAL NOTES:

- 1) EQUIPMENT PICK-UP AND DELIVERY TO SITE FROM BLUEGRASS CELLULAR STAGING FACILITY TO BE THE CONTRACTORS RESPONSIBILITY, INCLUDING CRANE SET, AND ALL COST INCURRED.
- 2) FOR, BUILDING AND ALL CONCRETE PAD DETAILS REFER TO STRUCTURALS AND SHEET S1.1
- 3) ANY DAMAGE DUE TO CONSTRUCTION, TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION. (SUBJECT TO BLUEGRASS CELLULAR'S APPROVAL).
- 4) 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.
- 5) ROADWAYS TO BE GRADED SMOOTH AND EVEN, REMOVING ALL POTHOLES. ROADS TO HAVE PROPER DRAINAGE AND RUNOFF PER BLUEGRASS CELLULAR'S APPROVAL.
- 6) 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.
- 7) FOR GRADING DETAILS, SEE GENERAL NOTESHEET
- 8) CONTRACTOR TO FIELD VERIFY ALL TOWER DIMENSIONS WITH TOWER MANUFACTURER PRIOR TO JOB BIDDING OR START OF ANY CONSTRUCTION
- 9) CONTRACTOR RESPONSIBLE FOR APPLYING FOR SERVICE TO SITE AND PAYING ANY FEES REQUIRED FOR PERMITS, HOOKUP, ETC..

SITE PLAN
SCALE: 1/8" = 1'-0"

		NO. 1 DATE 5-31-18 SCALE: LISTED	
		SHEET NUMBER A-1	
BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE GRAVEL SWITCH 693 J E BICKETT RD. RAYWICK, KY. 40060			



APPROVAL SIGNATURES

BLUEGRASS CELLULAR
PROJECT SUPERVISOR:

DATE: _____

CITY REPRESENTATIVE:

TITLE:

DATE: _____

PROPERTY OWNER/OWNERS:

DATE: _____

TOWER OWNER/OWNERS:

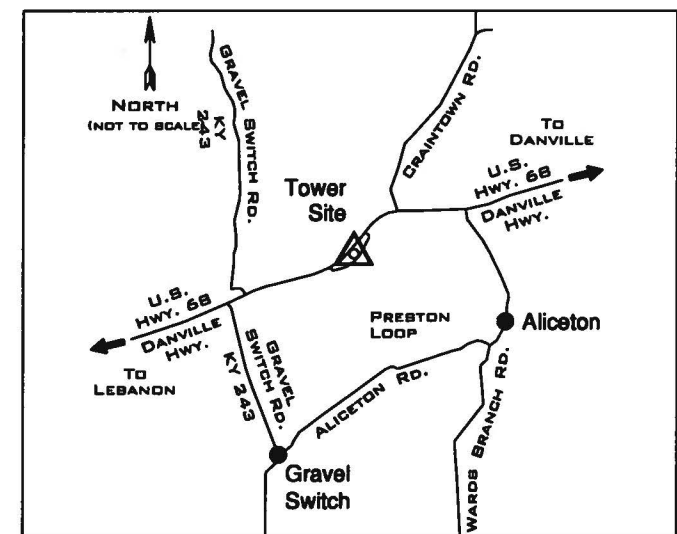
DATE: _____

SITE NAME: GRAVEL SWITCH

**911 ADDRESS: 149 PRESTON LOOP
GRAVEL SWITCH, KY.
40328**

COUNTY: MARION

TOWER LATITUDE & LONGITUDE
N 37* 35' 34.44" W 85* 02' 41.75"



VICINITY MAP
NOT TO SCALE

DIRECTIONS TO SITE

FROM ELIZABETHTOWN, TRAVEL SOUTHEASTERLY ON KENTUCKY HIGHWAY 61 (INDIANA PARKWAY) FOR ABOUT 11 MILES TO DOWNTOWN HODGENSVILLE AND U.S. HIGHWAY 31E; TRAVEL EASTERLY ON U.S. HIGHWAY 31E FOR ABOUT 5 MILES TO KENTUCKY HIGHWAY 84 IN WHITE CITY; TURN RIGHT ONTO KENTUCKY HIGHWAY 84 AND CONTINUE TO TRAVEL EASTERLY FOR ABOUT 18 MILES TO RAYWICK; FROM RAYWICK, CONTINUE EASTERLY ON KENTUCKY HIGHWAY 84 (RAYWICK ROAD) FOR 4.5 MILES TO KENTUCKY HIGHWAY 42S; TURN RIGHT ONTO KENTUCKY HIGHWAY 42S AND CONTINUE EASTERLY FOR 3.4 MILES TO U.S. HIGHWAY 68; TURN RIGHT ONTO U.S. HIGHWAY 68 AND TRAVEL EASTERLY FOR 2.6 MILES TO DOWNTOWN LEBANON; FROM LEBANON, TRAVEL EASTERLY ON U.S. HIGHWAY 68 (DANVILLE HIGHWAY) FOR 11.9 MILES TO PRESTON LOOP, WHICH IS 0.8 MILES WEST OF THE BOYLE COUNTY LINE; TURN RIGHT ONTO PRESTON LOOP AND TRAVEL NORTHEASTERLY FOR 0.15 MILES TO A DIRT AND STONE LANE ON THE LEFT OR NORTH SIDE OF THE ROAD; TURN LEFT ONTO THE LAND AND TRAVEL NORTHEASTERLY FOR 250 FEET TO THE TOWER SITE, WHICH LIES IN A GRASS AREA BETWEEN U.S. HIGHWAY 68 AND PRESTON LOOP.

SHEET INDEX

[illegible]

SITE DATA

PROPERTY OWNER: ALLEN MINOR HARMON JR.
(502) 510-0914

TOWER OWNER:	BLUEGRASS CELLULAR (270) 769-0339
--------------	--------------------------------------

POWER COMPANY: INNER COUNTY RECC
(270) 692-3761

TELEPHONE COMPANY: WINDSTREAM
(855) 439-2889

BLUEGRASS PROJECT MANAGER: BILL BURKS (270)734-1028

BLUEGRASS PROJECT SUPERVISOR: MASON McDOWELL (270)734-1002



ROBIN BECKER
RSB DESIGN
(502) 599-9427

Marion County, Kentucky

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2019 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

DESIGNATION: GRAVEL SWITCH
SITE ID#: NONE
HORIZONTAL DATUM: NAD 83 (2011)
LATITUDE: 37°35'34.44" NORTH
LONGITUDE: 85°02'41.75" WEST
VERTICAL DATUM: NAVD 88
GROUND ELEVATION: 855.8 FEET (260.85 M)

STATE PLANE COORDINATES
NORTHING: 2,099,775.87 FEET
(640,013.270 M)
EASTING: 1,844,699.18 FEET
(562,265.435 M)

**LANDOWNERS: ALLEN MINOR HARMON, JR.
AND PEGGY H. BROWN**

**ADDRESS: 2702 OAKWOOD DRIVE
BARDSTOWN, KY 40004**

**CONTACT PERSON: ALLEN MINOR HARMON
PHONE NUMBER: 502-510-0914**

PVA MAP NUMBER: 101-010

NORTHING: 2,099,761 FEET (640,008 M)
EASTING: 1,844,616 FEET (562,240 M)
ELEVATION: 888.27 FEET (261.60 M)

DESCRIPTION: A RAILROAD SPIKE SET IN THE NORTHWEST SIDE OF A UTILITY POLE, 12" ABOVE GRADE, THAT IS 85 FEET WESTERLY OF THE CENTER OF THE TOWER.

ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) FOR MARION COUNTY, KENTUCKY AND INCORPORATED AREAS, MAP NO. 21195002250, DATED JANUARY 6, 2010, THE SUBJECT SITE LIES WITHIN 'OTHER AREAS - ZONE X'. THIS ZONE IS DEFINED AS 'AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN'.

The map shows a network of roads. A north arrow is in the top left. Key locations include 'Tower Site' (marked with a triangle), 'Gravel Switch' (marked with a circle), 'Preston' (in a rectangle), and 'Alicia' (marked with a circle). Roads shown include 'Gravel Switch Rd.', 'U.S. Hwy. 68', 'Danville Hwy.', 'Grantown Rd.', 'Albion Rd.', and 'Wards Branch Rd.'. Arrows indicate directions: 'TO DANVILLE', 'TO LEBANON', 'TO GRANTOWN', and 'TO ALBION'.

FROM ELIZABETHTOWN, KENTUCKY; TRAVEL SOUTHEASTERLY ON KENTUCKY HIGHWAY 51 (LINCOLN PARKWAY) FOR ABOUT 11 MILES TO DOWNTOWN LEBANON; TURN RIGHT ON HIGHWAY 31E; TRAVEL EASTERLY ON U.S. HIGHWAY 31E FOR ABOUT 5 MILES TO KENTUCKY HIGHWAY 68 (CAMPELLEVILLE ROAD); TURN RIGHT ON KENTUCKY HIGHWAY 68 AND CONTINUE TO TRAVEL EASTERLY FOR ABOUT 18 MILES TO RICHMOND; TURN RIGHT ON KENTUCKY HIGHWAY 84 (RAYMOND ROAD) FOR 4.5 MILES TO KENTUCKY HIGHWAY 42B; TURN RIGHT ON KENTUCKY HIGHWAY 42B AND CONTINUE EASTERLY FOR 3.4 MILES TO U.S. HIGHWAY 68 (CAMPELLEVILLE ROAD); TURN RIGHT ON U.S. HIGHWAY 68 AND TRAVEL NORTHEASTERLY FOR 2.6 MILES TO DOWNTOWN LEBANON; FROM LEBANON, TRAVEL SOUTHEASTERLY ON U.S. HIGHWAY 68 (CAMPELLEVILLE ROAD) FOR 11.9 MILES TO PRESTON TOWN, WHICH IS 0.8 MILES WEST OF THE BOYLE COUNTY LANE; TURN LEFT ON THE BOYLE COUNTY LANE AND TRAVEL NORTHEASTERLY FOR 0.15 MILES TO A DIRT AND STONE LANE ON THE LEFT SIDE OF THE ROAD; TURN LEFT ONTO THE LANE AND TRAVEL NORTHWESTERLY FOR 250 FEET TO THE TOWER SITE, WHICH LIES IN A FIELD BETWEEN U.S. HIGHWAY 68 AND PRESTON TOWN.

CORNER OF THE 14.626-ACRE TRACT DESCRIBED
IN DEED TO THE COMMONWEALTH OF KENTUCKY
IN DEED 270, PAGE 516 IN THE OFFICE OF THE
COUNTY CLERK OF MARION COUNTY, KENTUCKY.
STATION 137+00.00, 100' RIGHT PER PLANS
FOR U.S. HIGHWAY 68, PROJECT NOS. JLO3
011 0068 000-002 AND JLO3 078 0068
022-024, DATED JANUARY 20, 2010.

A TRACT OF LAND THAT IS LOCATED 1,900 FEET SOUTHWESTERLY OF THE INTERSECTION OF U.S. HIGHWAY 68 (DANVILLE HIGHWAY) AND CRAINTOWN ROAD IN THE GRAVEL SWITCH COMMUNITY OF MARION COUNTY, KENTUCKY; SAID TRACT BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 6-INCH SQUARE CONCRETE RIGHT OF WAY MONUMENT
NADEN EXPOSED 34 INCHES AT A CORNER IN THE SOUTHEASTERN BOUNDARY
NADEN DEDICATED TO PUBLIC USE BY RESOLUTION NO. 0-98 OF THE BOARD OF
KENTUCKY ON APRIL 4, 2008 IN DEED BOOK 270, PAGE 515 IN THE OFFICE OF
THE COUNTY CLERK OF MARDIN COUNTY, KENTUCKY; SAID MONUMENT BEING
ON THE SOUTHERNEAST RIGHT OF WAY OF U.S. HIGHWAY #1 EAST FROM STATION
0+00 TO STATION 1+00.00 SOUTH 33 DEGREES 03 MINUTES 14 SECONDS WEST
100.00 FEET TO JUNCTION OF ROAD LUGGS RD., JOCS O.D. 0005-
000-D02 AND JOCS 079 0068 025-024, DATE JANUARY 20, 2010;
THERE, ALONG SAID RIGHT OF WAY, SOUTH 50 DEGREES 03 MINUTES 14
SECONDS WEST 100.00 FEET TO AN IRREGULARLY SHAPED AREA CONTAINING
45 ACRES EAST 20.00 FEET TO A 5/8-INCH REBAR SET FLUSH WITH A SURVEY
GAR INScribed "O.L. HELMEL PLB 3386" (REFERRED TO AS A REBAR SET IN
THIS DESCRIPTION); THERE, NORTH 33 DEGREES 03 MINUTES 14 SECONDS
EAST 100.00 FEET TO A 5/8-INCH REBAR SET FLUSH WITH A SURVEY GAR
INScribed "J.M. HANCOCK PLB 3386"; THERE, SOUTH 33 DEGREES 03
MINTUES 14 SECONDS WEST 100.00 FEET TO A 5/8-INCH REBAR SET FLUSH
SOUTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 100.00 FEET TO A
REBAR SET FLUSH; THENCE NORTH 39 DEGREES 56 MINUTES 46 SECONDS
EAST 100.00 FEET TO ANOTHER 5/8-INCH REBAR BEGINNING AND CONTAINING 0.184 ACRES
(19,000 SQUARE FEET), MORE OR LESS.

TOGETHER WITH 20-FOOT WIDE ACCESS AND UTILITY EASEMENT FROM THE ABOVE-DESCRIBED 0.184-ACRE LEASE TRACT TO PRESTON LOUD; SAID EASEMENT BEING DESCRIBED AS FOLLOWS: BEGINNING AT THE WEST CORNER OF THE 1/4-SECTION 36, TOWNSHIP 36 NORTH, RANGE 10 EAST, BY A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "O.L. HELMS PL. 3386"; THENCE NORTH 39 DEGREES 55 MINUTES 45 SECONDS WEST 30.00 FEET TO A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "O.L. HELMS PL. 3386"; THENCE, ALONG SAID RIGHT OF WAY, NORTH 50 DEGREES 03 MINUTE 14 SECONDS EAST 127.55 FEET; THENCE, LEAVING SAID RIGHT OF WAY, SOUTHEASTERLY 87.00 FEET ALONG AN ARC TO THE RIGHT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 84 DEGREES 37 MINUTE 55 SECONDS EAST AND A LENGTH OF 78.21 FEET; THENCE SOUTH 39 DEGREES 19 MINUTE 04 SECONDS EAST 110.00 FEET TO THE POINT OF BEGINNING; OR, BEGINNING AT THE POINT 110.00 FEET FROM THE CENTERLINE); THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, SOUTH 45 DEGREES 34 MINUTE 03 SECONDS WEST 20.08 FEET; THENCE, SOUTHEASTERLY 87.00 FEET ALONG AN ARC TO THE RIGHT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 84 DEGREES 37 MINUTE 55 SECONDS WEST AND A LENGTH OF 78.21 FEET; THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, NORTH 45 DEGREES 34 MINUTE 03 SECONDS WEST 20.08 FEET; THENCE, SOUTHEASTERLY 87.00 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 84 DEGREES 37 MINUTE 55 SECONDS WEST AND A LENGTH OF 78.21 FEET; THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, SOUTH 45 DEGREES 34 MINUTE 03 SECONDS WEST 20.08 FEET; THENCE, SOUTHEASTERLY 87.00 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 84 DEGREES 37 MINUTE 55 SECONDS WEST AND A LENGTH OF 78.21 FEET; THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, NORTH 45 DEGREES 34 MINUTE 03 SECONDS WEST 20.08 FEET TO THE POINT OF BEGINNING.

THE BEARING SYSTEM OF THIS DESCRIPTION IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2018 USING THE KENTUCKY TRANSPORTATION CABINET'S KYGCRS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

THIS DESCRIPTION IS BASED UPON A SURVEY COMPLETED BY LANDMARK SURVEYING CO., INC. AND CERTIFIED BY DARREN L. HELMS, P.L.S. 3386, ON MAY 31, 2018.

SOURCE OF TITLE: BEING A PORTION OF AND LYING ENTIRELY WITHIN THE LAND DESCRIBED IN DEED TO PEGGY H. BROWN AND ALLEN MINOR HARMON ON JUNE 28, 2005 IN DEED BOOK 251, PAGE 355 IN THE OFFICE OF THE COUNTY CLERK OF MARION COUNTY, KENTUCKY.

1. ANY ENCUMBRANCES AND LANDOWNER INFORMATION SHOWN HEREON, REGARDING THE SUBJECT TRACT, ARE BASED UPON A TITLE SEARCH COMPLETED BY ABSTRACTS & TITLES, INC. OF LOUISVILLE, KENTUCKY, DATED MARCH 13, 2018, EXAM NO. 232492.

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

2. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAN WAS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL OF THE TOPOGRAPHIC FEATURES LOCATED AT THE SUBJECT SITE.

4. ACCORDING TO THE OFFICE OF MR. DAVID R. DAUGHERTY, MARION COUNTY JUDGE EXECUTIVE, NO LOCAL PLANNING UNIT EXISTS WHICH HAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 270-692-3451 FOR CONFIRMATION.

5. THE PROPOSED LOCATION OF THE GRAVEL SWITCH TOWER SITE WILL BE LOCATED OUTSIDE OF AN INCORPORATED CITY.

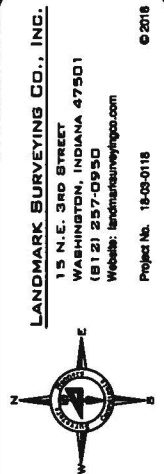
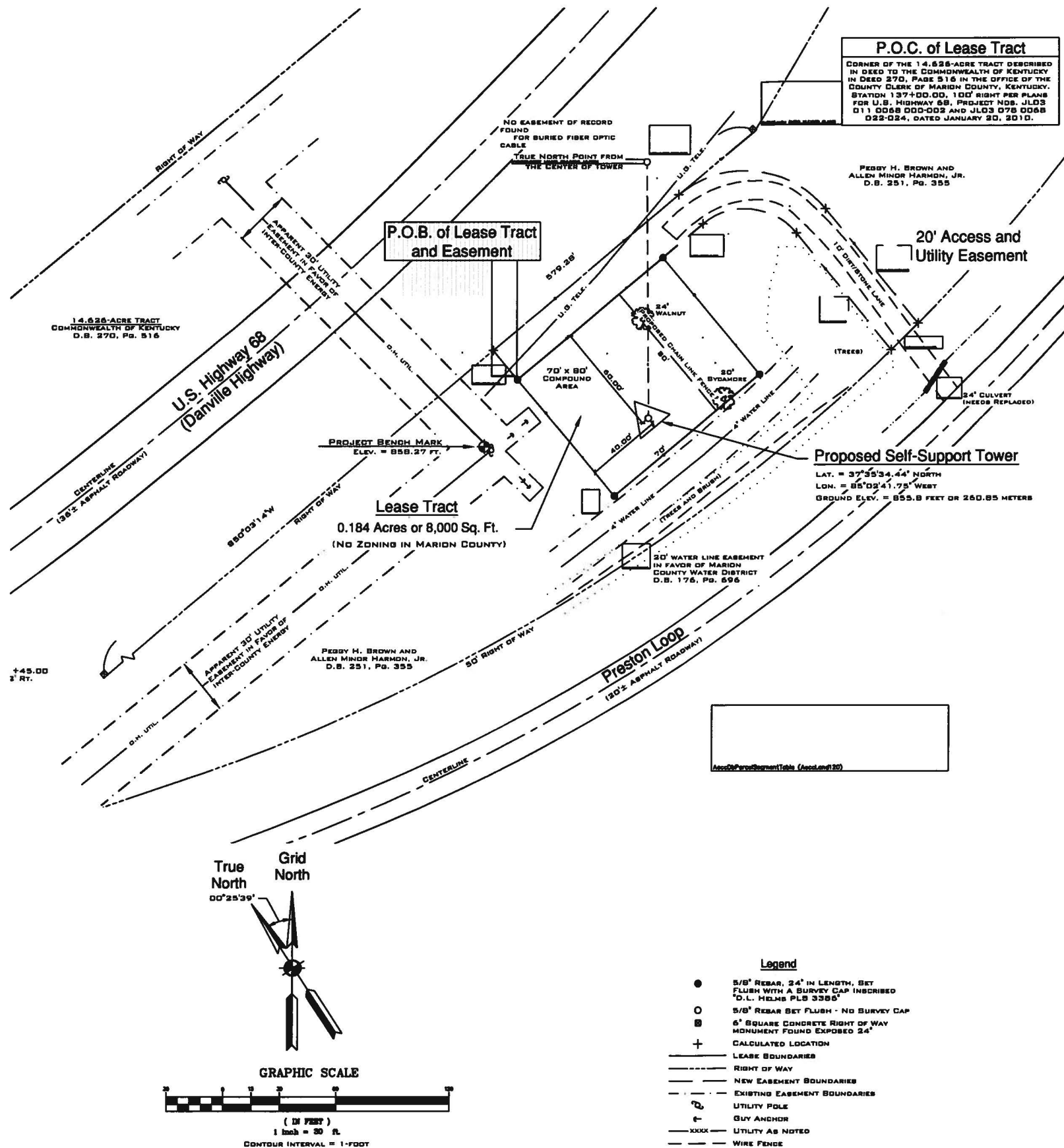
6. THE ROAD RIGHT OF WAY SHOWN HEREON WERE DETERMINED FROM PLANS PROVIDED BY THE KENTUCKY TRANSPORTATION CABINET - PROJECT NO. 78-22, DATED MAY 21, 1941 (PRESTON LOOP) AND PROJECT NOS. JLO3 011 0068 000-002 AND JLO3 078 0068 022-024, DATED JANUARY 20, 2010 (U.S. HIGHWAY 68).

Certification

I HEREBY CERTIFY THAT THIS PLAT HAS BEEN COMPILED FROM A SURVEY ACTUALLY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON APRIL 27, 2018 BY THE METHOD OF REAL TIME KINEMATIC GPS SURVEY AND A RANDOM TRAVERSE WITH SIDENOTES; THAT THE DIRECTIONS AND DISTANCES SHOWN HEREON ARE BASED UPON AN ADJUSTED TRAVERSE; THAT THE RELATIVE MEASUREMENTAL ACCURACY OF ANY POINT ON THIS PLAT IS BETTER THAN ± 0.10 FEET ± 200 PPM; AND THAT THIS PLAT REPRESENTS A RURAL BOUNDARY SURVEY AND COMPLIES WITH THE REQUIREMENTS OF 201 KAR 18:150.

DARREN L. HELMS, P.L.B. 2386

DATE _____



Lease Boundary Survey

149 Preston Loop

Gravel Switch, Kentucky 40328

Bluegrass Cellular

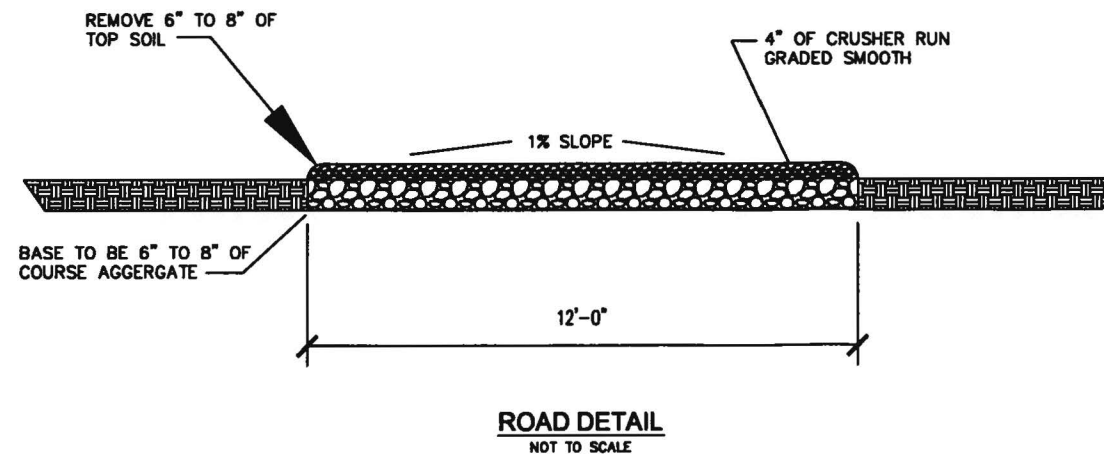
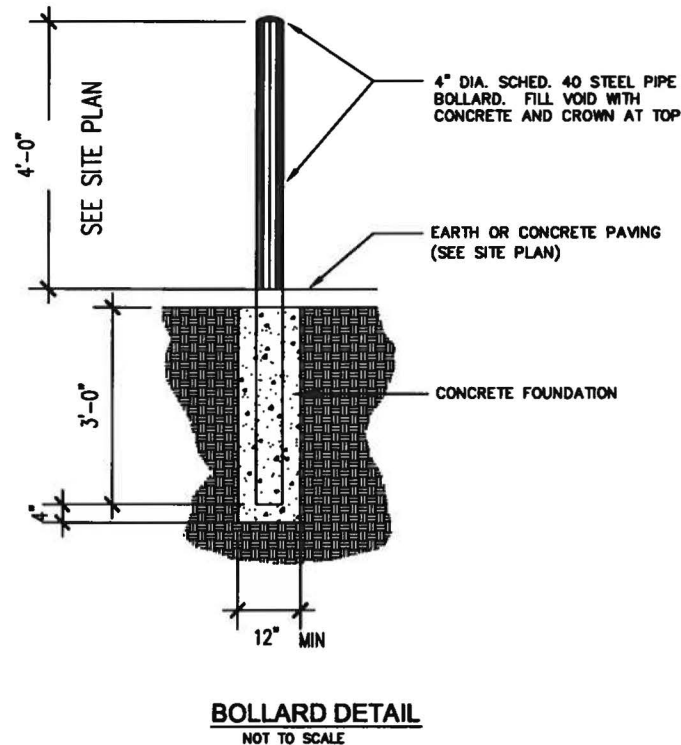
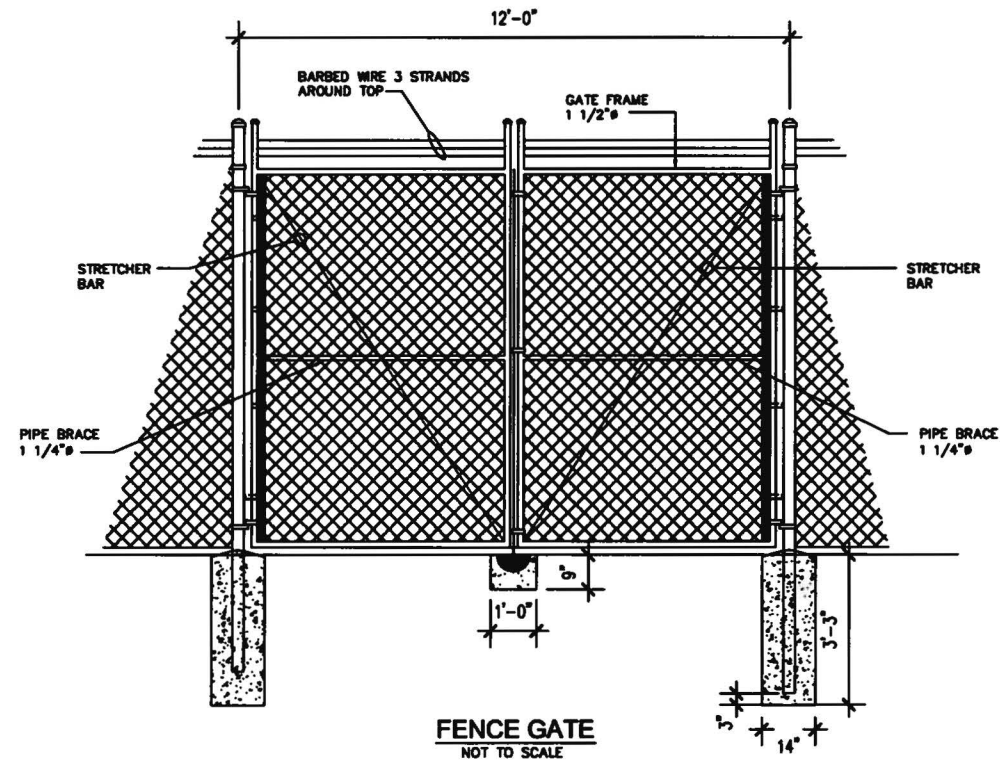
2902 Ring Road

Elizabethtown, KY 42701

REVISIONS		DATE
DATE May 31, 2018	DRAWN BY J. Hamilton	CHECKED BY D. L. Helms

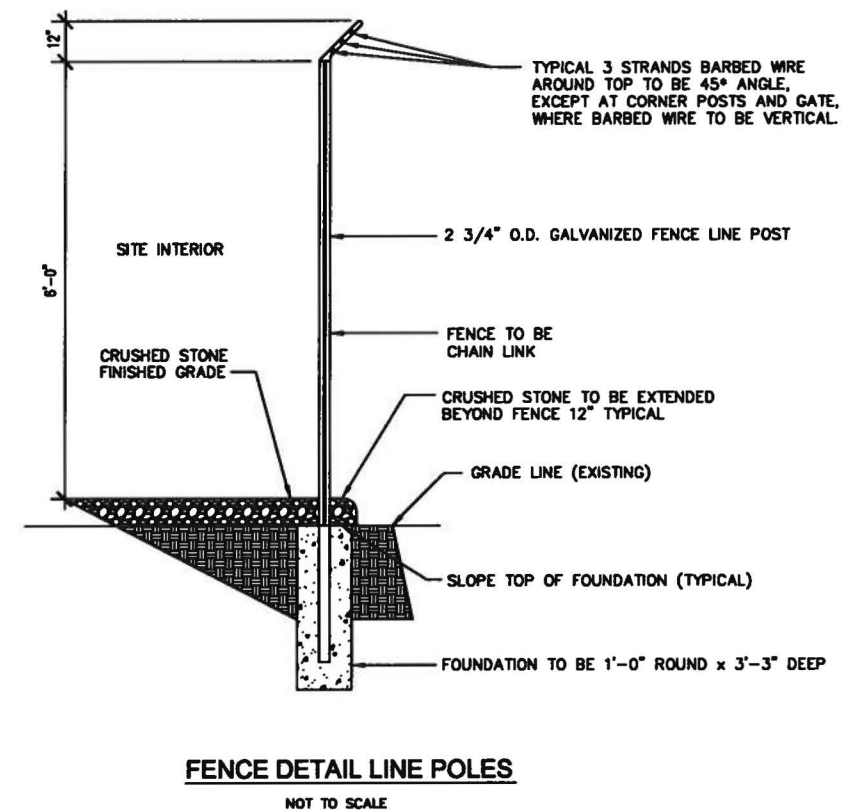
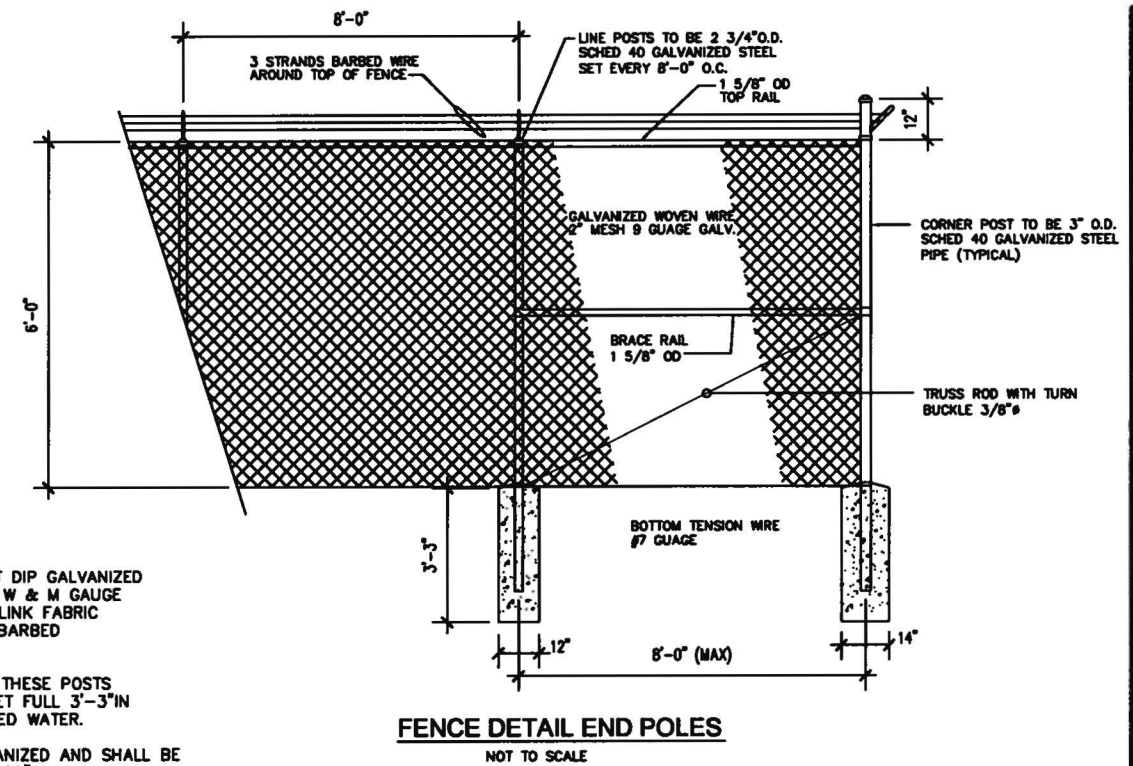
SHEET No.
1
of 1 SHEETS


FILE NAME
gravel.dwg



CHAIN LINK FENCING NOTES:

- 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
- POSTS:** SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALVANIZED. THESE POSTS SHALL BE SPACED APPROXIMATELY 8'-0" ON CENTERS AND SET FULL 3'-3" IN BELL - SHAPED CONCRETE FOOTING, CROWNED AT TOP TO SHED WATER.
- TOP RAIL:** SHALL BE 1 5/8" O.C. STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS AVERAGING NOT LESS THAN 20'.
- FABRIC TIES:** FOR ATTACHING FABRIC TO LINE POST, TOP RAIL OR TOP WIRE, SHALL BE ALUMINUM STRIP OF WIRE OF APPROVED GAUGE AND DESIGN. USED ON TOP OF RAIL EVERY 24" AND ONE POST EVERY 12'.
- EXTENSION ARMS:** CAST STEEL GALVANIZED TO ACCOMMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.
- BARBED WIRE (STEEL):** ASTM A121 GALVANIZED STEEL, 12 GAUGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.
- SWING GATE POSTS:** SHALL BE 3" O.C. STANDARD HOT GALVANIZED, WEIGHING 5.79 LBS. PER FOOT.
- 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.
- FENCE TO BE 100% ERECTED WITHIN TEN(10) DAYS OF COMPLETION OF CONSTRUCTION, IF TIME FRAME CANNOT BE MET, PLEASE NOTIFY PROJECT SUPERVISOR.
- FENCE STOPS TO BE PLACED ON INSIDE OF COMPOUND PER ACCESS GATE SPECIFICATIONS.
- FENCE TO MATCH EXISTING COMPOUND FENCE.





nb design1@bellsouth.net (502)599-9427

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH

693 J E BICKETT RD. RAYWICK, KY. 40060

NO.	DATE	REVISION

DRAWN BY: R. BECKER

ISSUE DATE: 5-31-18

SCALE: LISTED

SHEET NUMBER

A-2

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 AND GROUNDING, PER INSTRUCTION OF PROJECT SUPERVISOR.

GENERAL CONTRACTOR TO MOUNT ANTENNA MOUNTS AT TOP OF STRUCTURE OR TOWER BY BLUEGRASS CELLULAR SPECIFICATIONS.

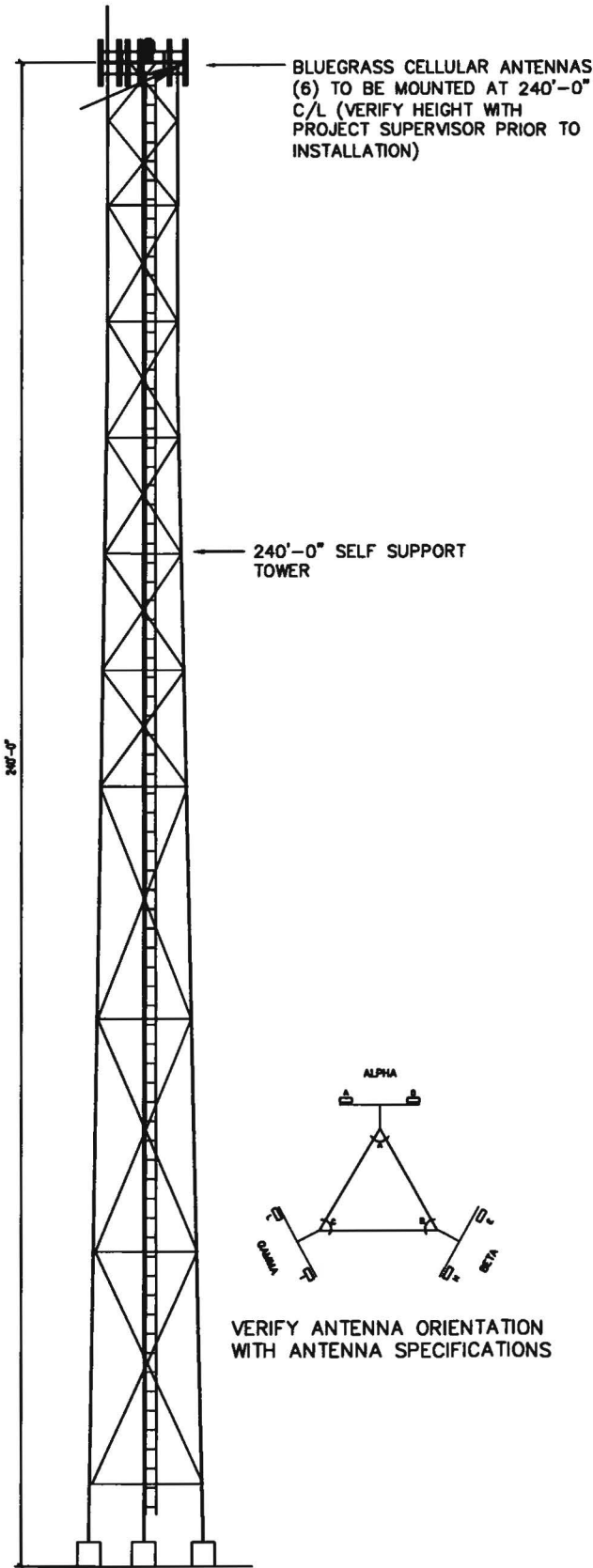
ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (Additional Ice Bridge if needed)

TRAPEZE KIT TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

CONTRACTOR TO INSTALL GPS BRACKET & ANTENNAS COMPLETE.

CONTRACTOR TO INSTALL LIGHTING SYSTEM PER FAA ADVISORY 70/7460-1K CHANGE 2, OBSTRUCTION MARKING AND LIGHTING, A MED-DUAL SYSTEM - CHAPTERS 4,8(M-DUAL), & 12

BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS



SELF SUPPORT TOWER ELEVATION (TYPICAL)

TOWER HEIGHT & TYPE

240'-0" SELF SUPPORT TOWER

ANTENNA SPECS

	TYPE	SIZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (CDMA)	KATHREIN 800-10985		6	200°, 270°, 340°	240'-0" C/L <small>VERIFY WITH CONSTRUCTION SUPERVISOR</small>
ANTENNA (LTE)	RRUS 2212 B13		6	A, B, G	240'-0" C/L

ANTENNA MOUNTING HARDWARE SPECS

	TYPE	SIZE	NUMBER
MOUNT (PRIMARY)	WD 13X53 MOUNTING FRAME		3
MOUNT (SECONDARY)			

ANTENNA TRANSMISSION LINES SPECS

	TYPE	SIZE	NUMBER
TRANSMISSION LINE (PRIMARY)	(7) #BAWG	7/8"	1
TRANSMISSION LINE (PRIMARY)	(24) Fiber	1/2"	1
TRANSMISSION LINE (SECONDARY)			

DISH SPECS

	MICROWAVE/DONOR	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
DISH #1					

DISH TRANSMISSION LINES

	TYPE	SIZE	NUMBER
TRANSMISSION LINE #1			
TRANSMISSION LINE #2			

ANTENNA SYNOPSIS

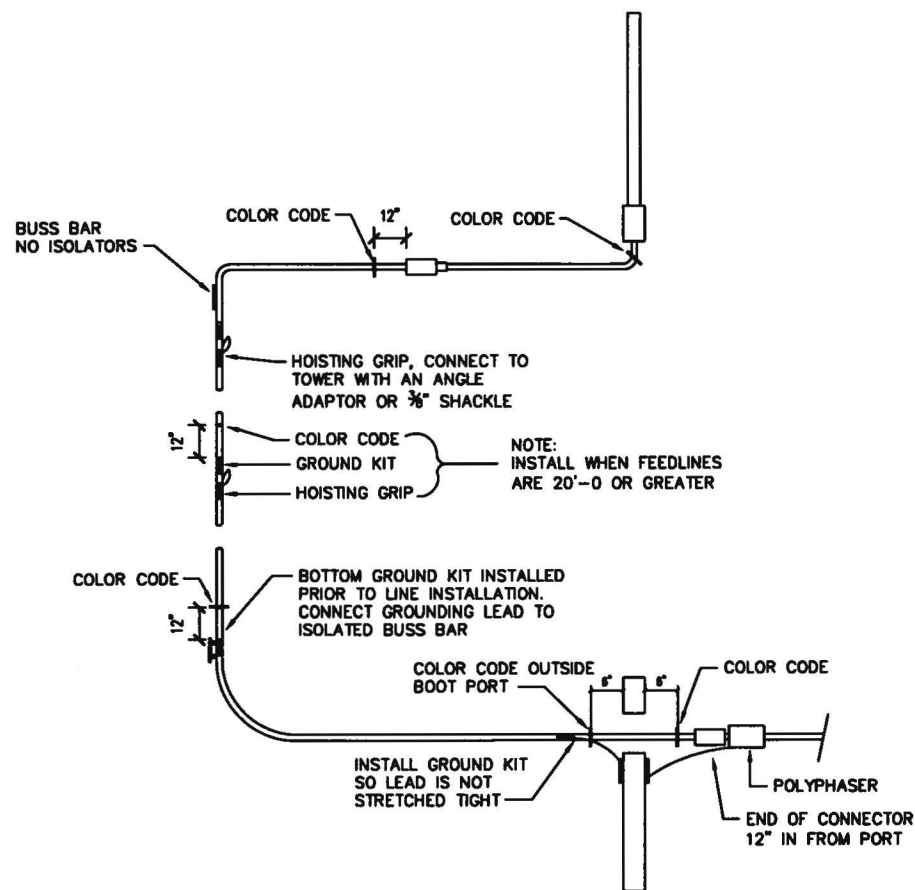
- * ANTENNAS TO HAVE A 2*E
- * ANTENNAS TO HAVE A 0* Mech.

Bluegrass Cellular logo with text "Bluegrass Cellular" and "Standard Cellular Site Gravel Switch".

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH
693 J E BICKETT RD. RAYWICK, KY. 40060

DRAWN BY: R. BECKER
ISSUE DATE: 5-31-18
SCALE: LISTED

SHEET NUMBER
ANTENNA DETAILS
1



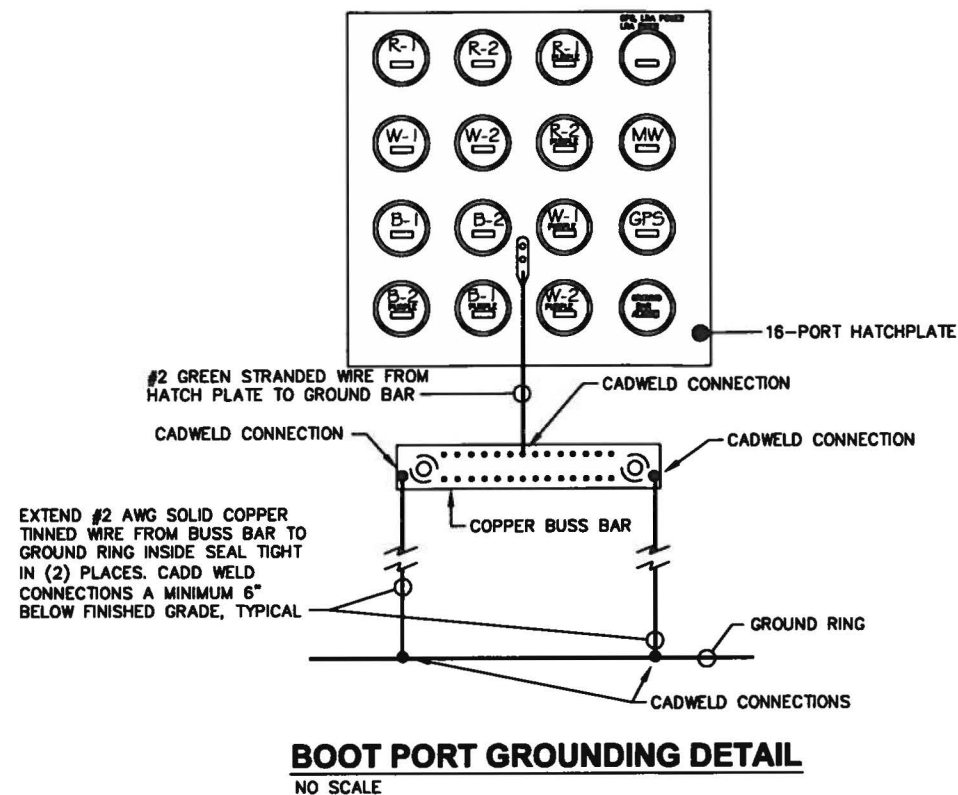
COLOR CODING DETAIL
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COLOR CODE DETAILS:

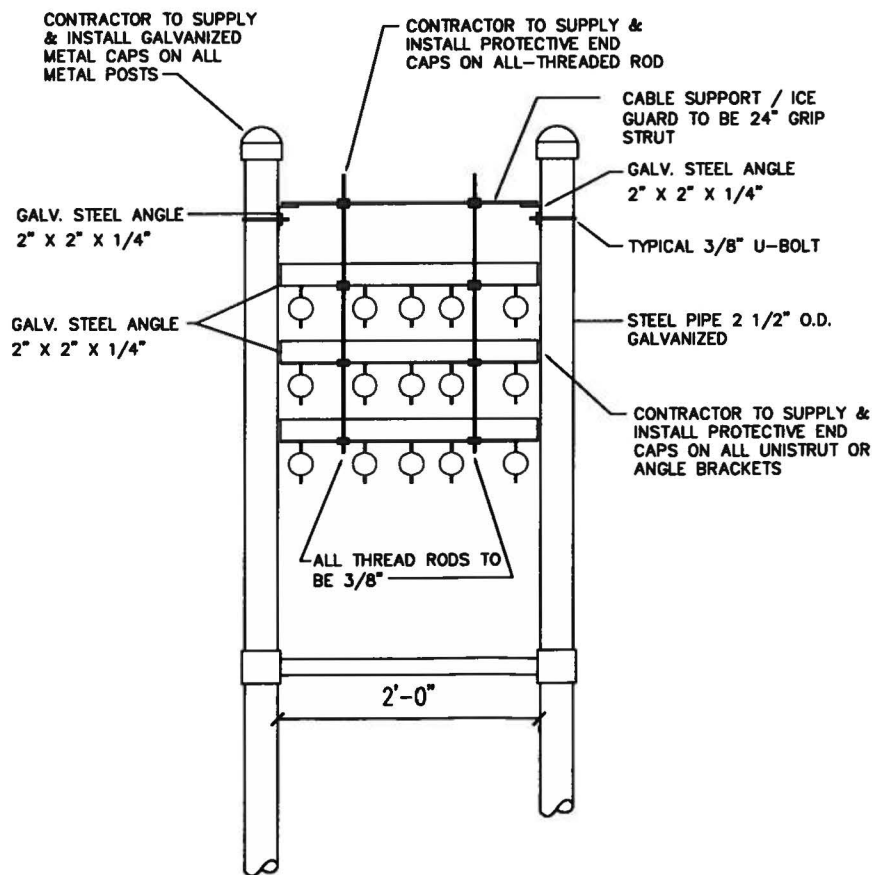
CDMA—NO COLOR OTHER THAN THE SECTOR DESIGNATORS
 BCI LTE—ALWAYS 1 PURPLE BAND AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS.
 LRA LTE—ALWAYS HAS 1 ORANGE BAND AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS.
 AWS—ALWAYS HAS 2 ORANGE BANDS AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS. AWS POWER AND FIBER TRUNK CABLES JUST HAVE 2 ORANGE BANDS WITH NO SECTOR DESIGNATOR COLORS SINCE ALL 3 SECTORS ARE IN TRUNK.

THE SECTOR DESIGNATOR COLORS ARE:

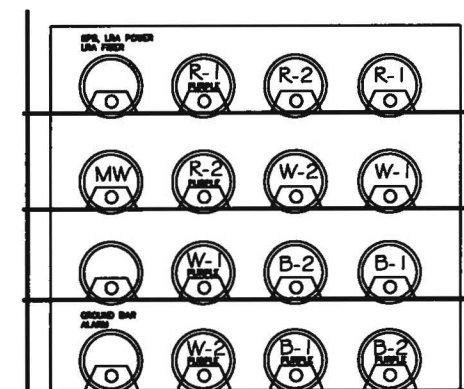
ALPHA 1—1 RED BAND
 ALPHA 2—2 RED BANDS
 DELTA 1—3 RED BANDS
 DELTA 2—4 RED BANDS
 BETA 1—1 WHITE BAND
 BETA 2 —2 WHITE BANDS
 EPSILON1 —3 WHITE BANDS
 EPSILON 2—4 WHITE BANDS
 GAMMA 1— 1 BLUE BAND
 GAMMA 2— 2 BLUE BANDS
 ZETA 1 — 3 BLUE BANDS
 ZETA 2 — 4 BLUE BANDS
 BCI LTE (PURPLE BAND)
 1 RED 1 PURPLE (ALPHA 1 BCI LTE)
 2 RED 1 PURPLE (ALPHA 2 BCI LTE)
 1 WHITE 1 PURPLE (BETA 1 BCI LTE)
 2 WHITE 1 PURPLE (BETA 2 BCI LTE)
 1 BLUE 1 PURPLE (GAMMA 1 BCI LTE)
 2 BLUE 1 PURPLE (GAMMA 2 BCI LTE)



BOOT PORT GROUNDING DETAIL
NO SCALE



ICE BRIDGE / COAX SUPPORT DETAIL
NO SCALE



**COAX ENTRY DETAIL POWER SIDE
(VIEW FROM INSIDE SHELTER)**
NO SCALE

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BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH
693 J E BICKETT RD. RAYWICK, KY. 40060

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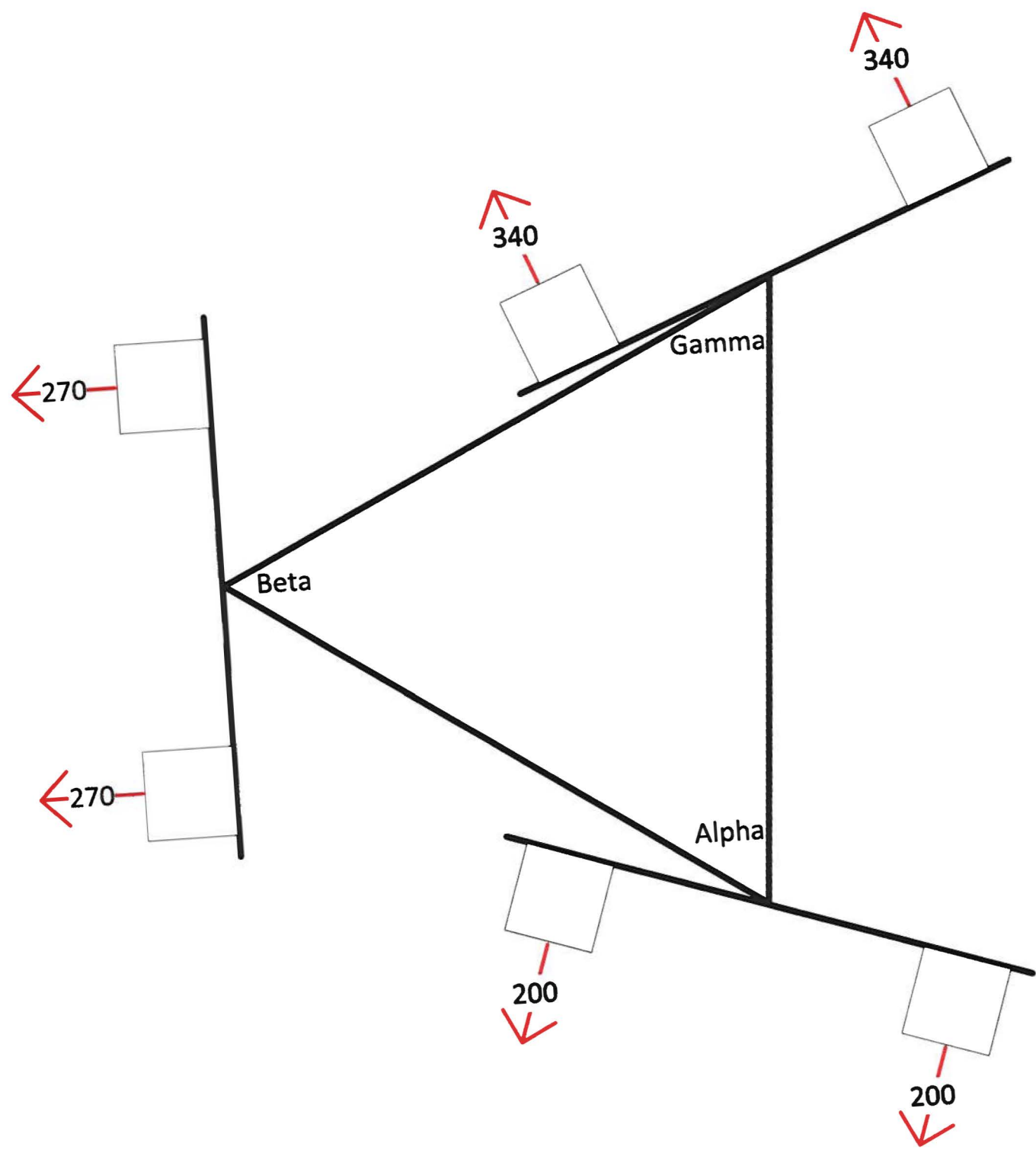
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R. BECKER

ISSUE DATE:
5-31-18

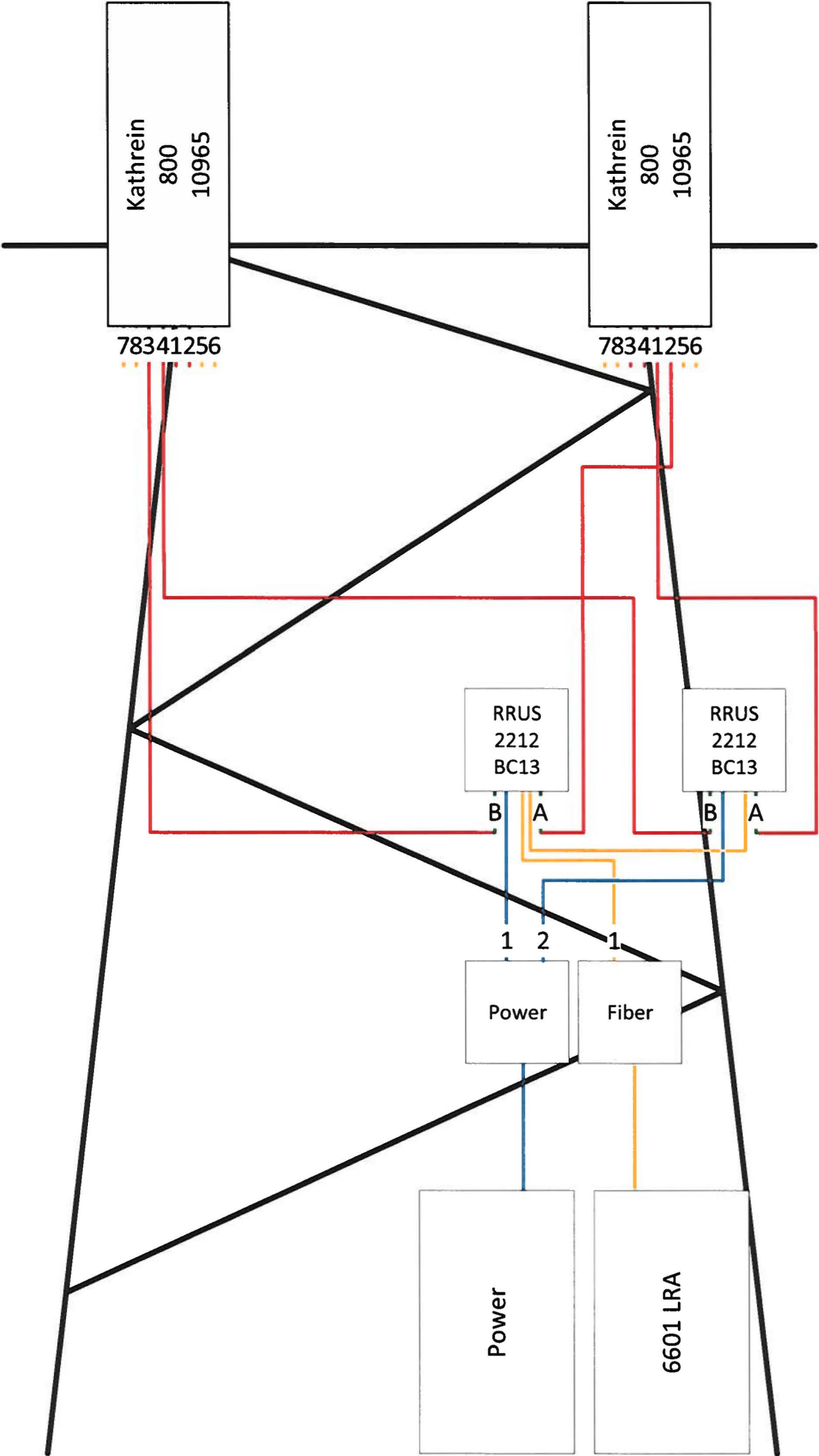
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SHEET NUMBER
ANTENNA DETAILS
2

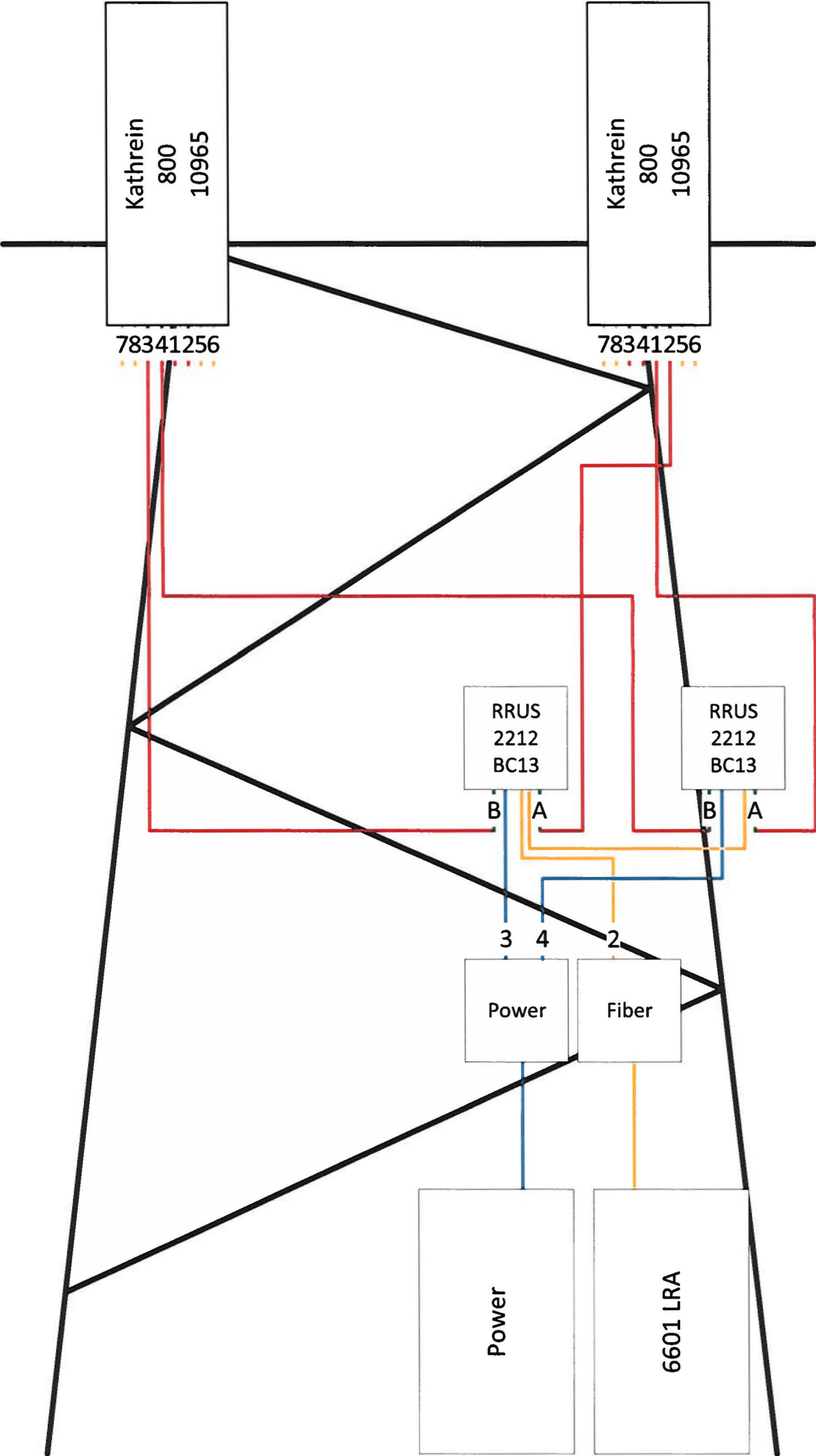
Gravel Switch
LRA
Bluegrass Owned



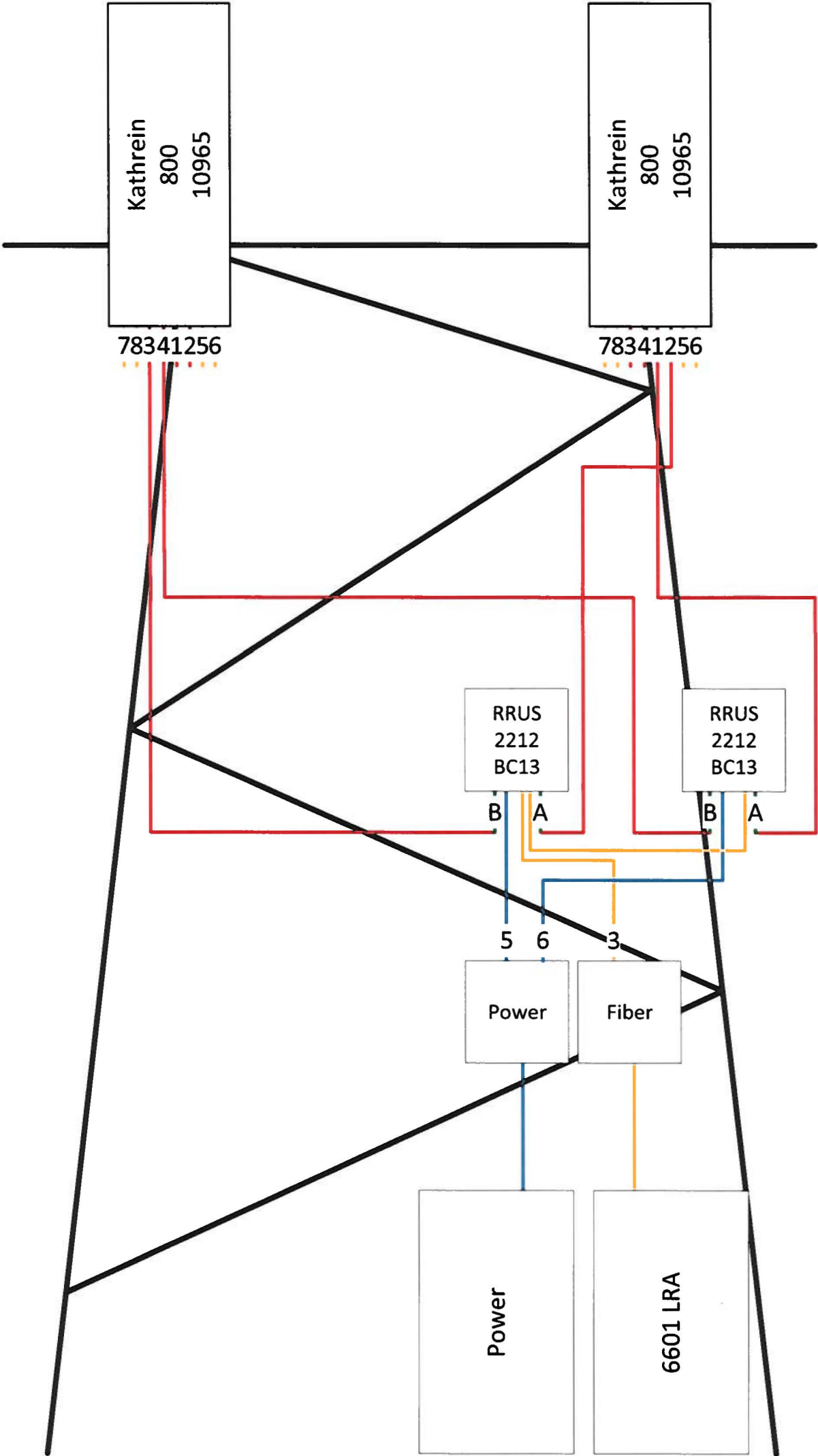
Gravel Switch - Alpha
LRA
Bluegrass Owned

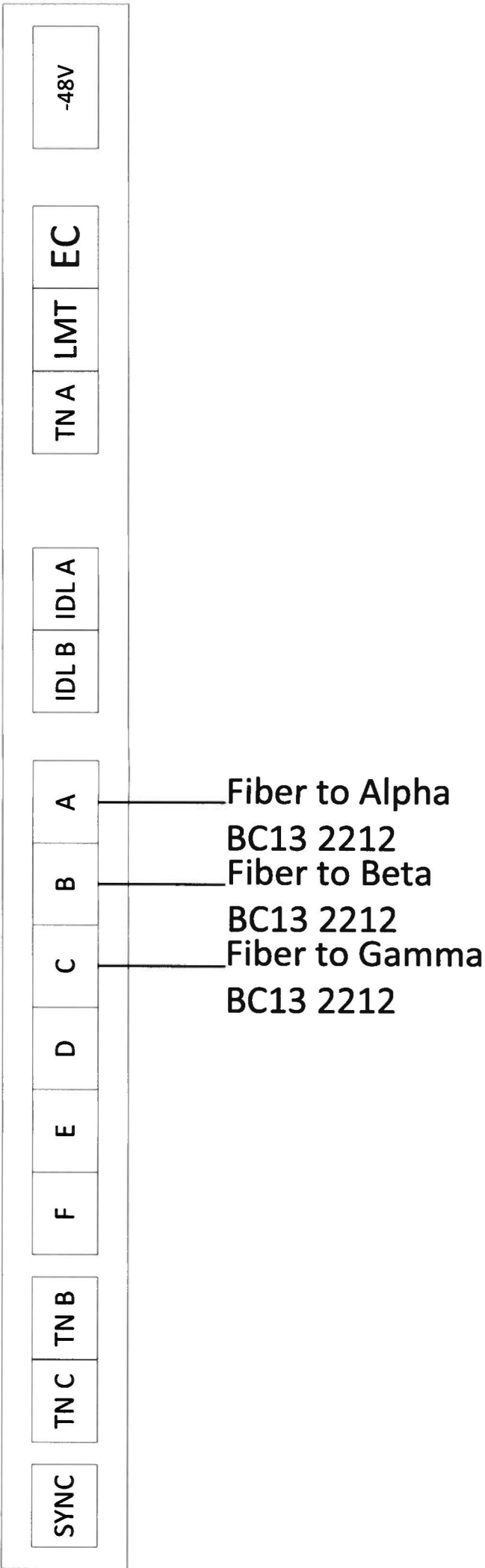


Gravel Switch - Beta
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Bluegrass Owned



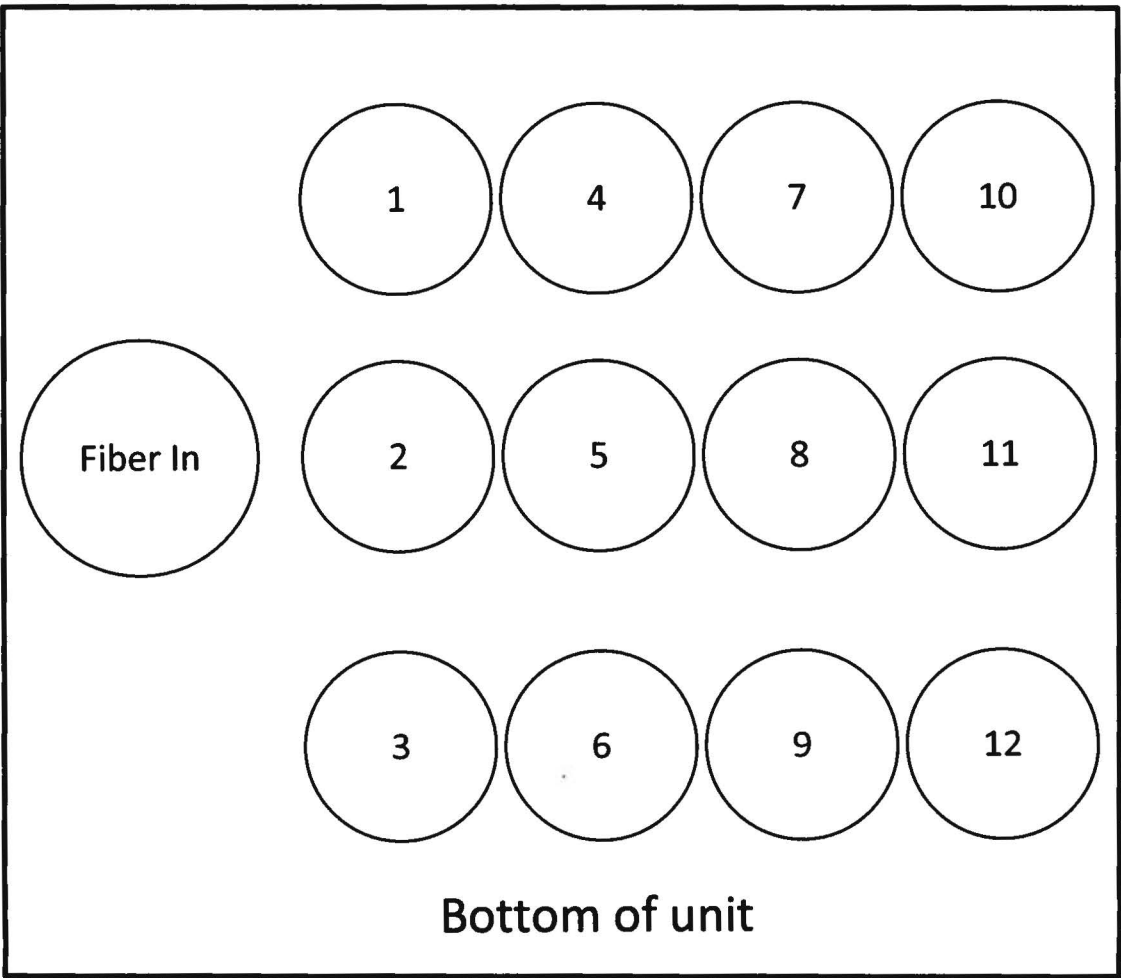
Gravel Switch - Gamma
LRA
Bluegrass Owned



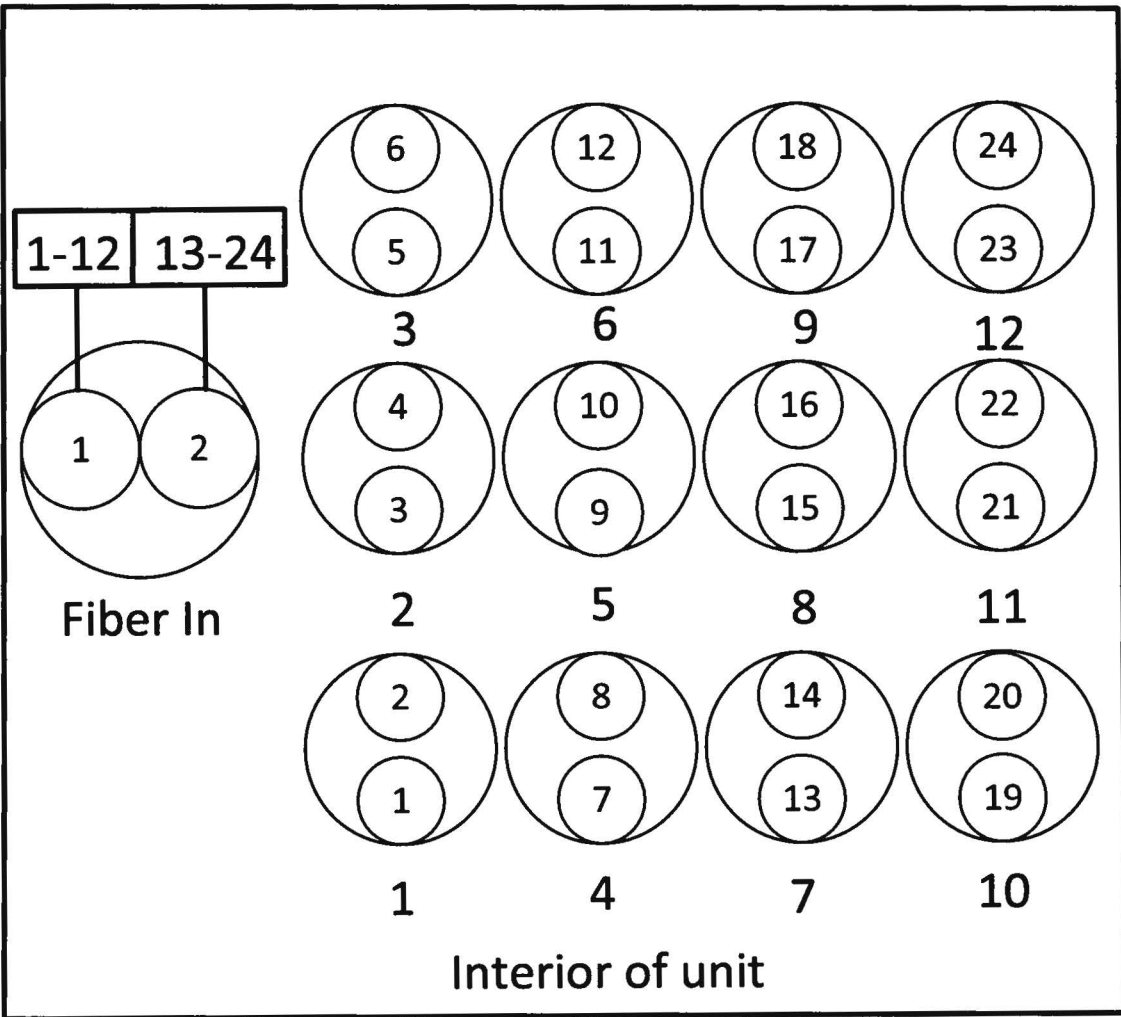


LRA 5216

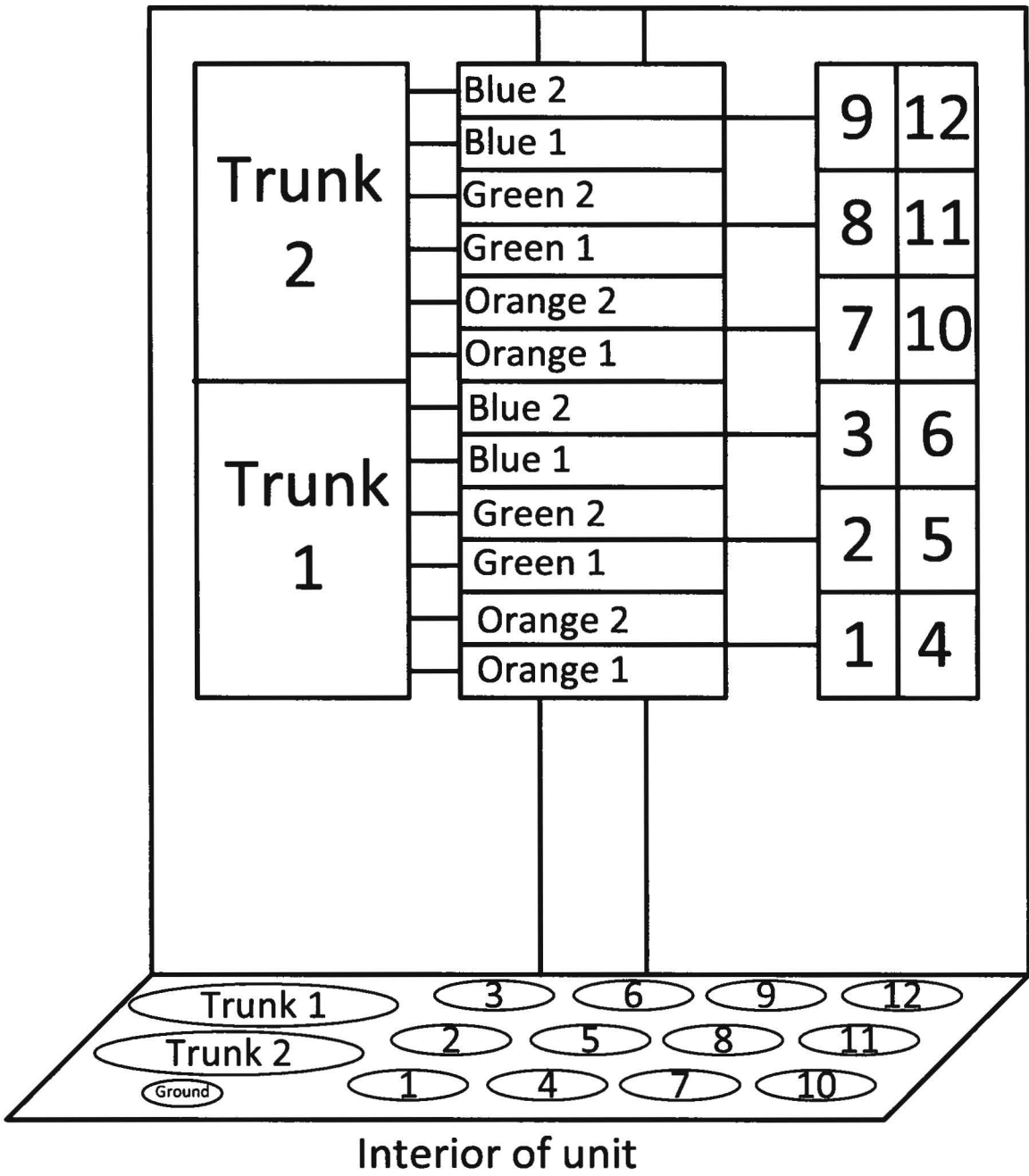
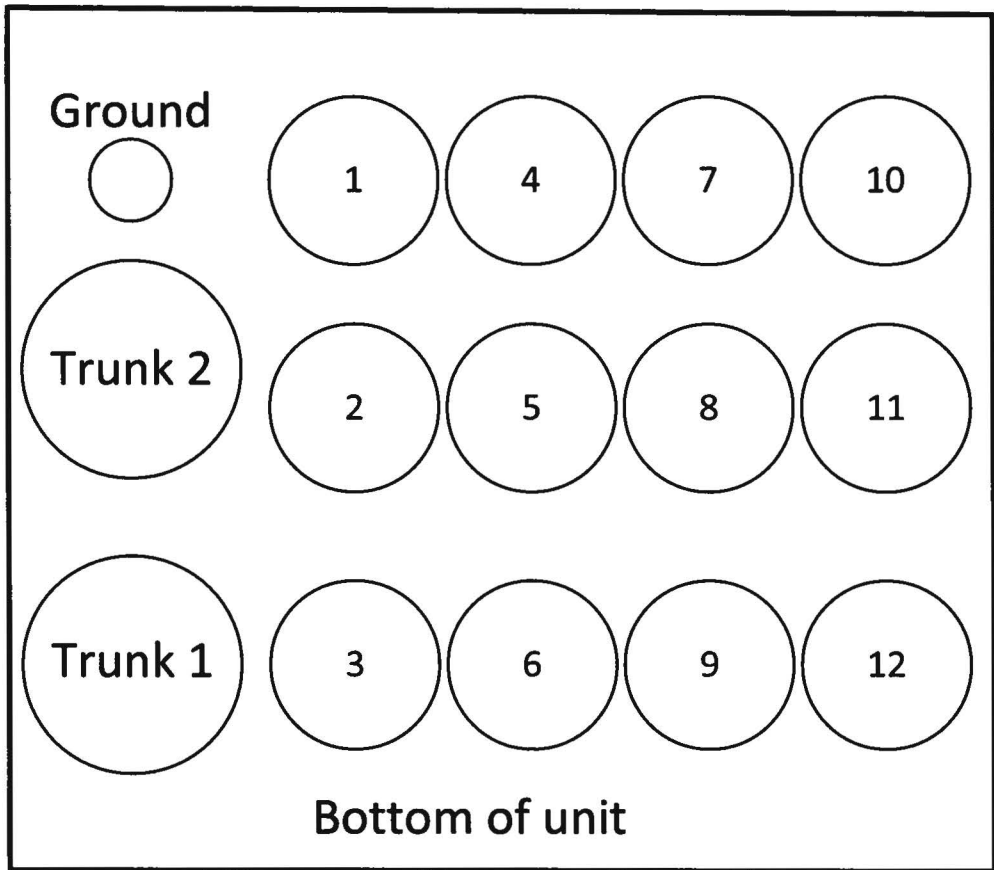
Fiber Junction Box Standard Diagram- Exterior connections



Fiber Junction Box Standard Diagram-Interior Wiring



Power Junction Box Standard Diagram



CONTRACTOR TO EXTEND (2) 3" PVC CONDUITS (SCHED 40/80 PER CODE) 36" BELOW FINISHED GRADE FROM SERVICE METER TO EXISTING POWER POLE OFF. INSERT (3) 3/0 IN ONE CONDUIT AND A ELECTRIC GRADE PULL STRING IN THE OTHER. CAP OFF & SEAL THE CONDUIT WITH PULL STRING. VERIFY REQUIREMENTS WITH LOCAL UTILITY CO.

CONTRACTOR TO EXTEND 4" PVC CONDUIT (SCHED 40/80 PER CODE) FROM NEW HOFFMAN BOX ON SERVICE BOARD, 36" BELOW FINISHED GRADE TO CLOSEST TELCO PEDISTAL. VERIFY SIZE & LOCATION OF CONDUIT WITH LOCAL TELCO PROVIDER

NEW SERVICE BOARD, SEE DETAIL SHEET E-2

EXTEND 3 #3/0 & 1 #2 GROUND IN 2 1/2"-PVC CONDUIT (SCHED 40/80 PER CODE) 30" BELOW FINISHED GRADE FROM BUILDING DISCONNECT TO 200 AMP DISCONNECT ON "H" FRAME, WIRE COMPLETE

EXTEND S.O. CORD FROM SHELTER TO TOWER BASE UNDER ICE BRIDGE, FOR TOWER LIGHTS. FIELD VERIFY WITH OWNER WHERE LIGHT CONTROL BOX WILL BE LOCATED WITHIN SHELTER. WIRE COMPLETE

CONTRACTOR TO SUPPLY AND INSTALL 2" POLYETHYLENE PIPE ENCASEMENT 30" BELOW FINISHED GRADE, STUB ABOVE FINISHED GRADE 12" TYPICAL AT EACH END. SEAL ENDS WITH A SILICONE CAULKING. STUB UP AT EACH PAD VERIFY LOCATION WITH PROPANE CONTRACTOR

EXTEND (1) 3" PVC CONDUIT (SCHED 40/80 PER CODE) 30" BELOW FINISHED GRADE FROM TELCO ENTRANCE ON SHELTER TO NEW HOFFMAN BOX ON SERVICE BOARD. INSERT (2) 1" INNER DUCTS WITH PULL STRINGS INSIDE

CONTRACTOR TO PROVIDE AND INSTALL (1)-2 1/2" PVC & (2)-1 1/4" PVC CONDUITS (SCHED 40/80 per code) 30" BELOW FINISHED GRADE TO BLDG. & STUB UP 24" FOR GENERATOR ALARM & WIRING. RUN TO TRANSFER SWITCH IN EQUIPMENT BUILDING AND WIRE PER MANUFACTURERS SPECIFICATIONS COMPLETE

GENERAL ELECTRICAL NOTES:

- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
- 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
- 3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.
- 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CAD WELD ALL CONNECTIONS)
- 5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE, SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.
- 6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.
- 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
- 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.
- 9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.
- 10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.
- 11) IF CONDUIT RUNS BURIED LESS THAN REQUIRED DEPTHS, CONTACT BLUEGRASS CELLULAR FOR FURTHER INSTRUCTIONS

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

SYMBOLS LEGEND

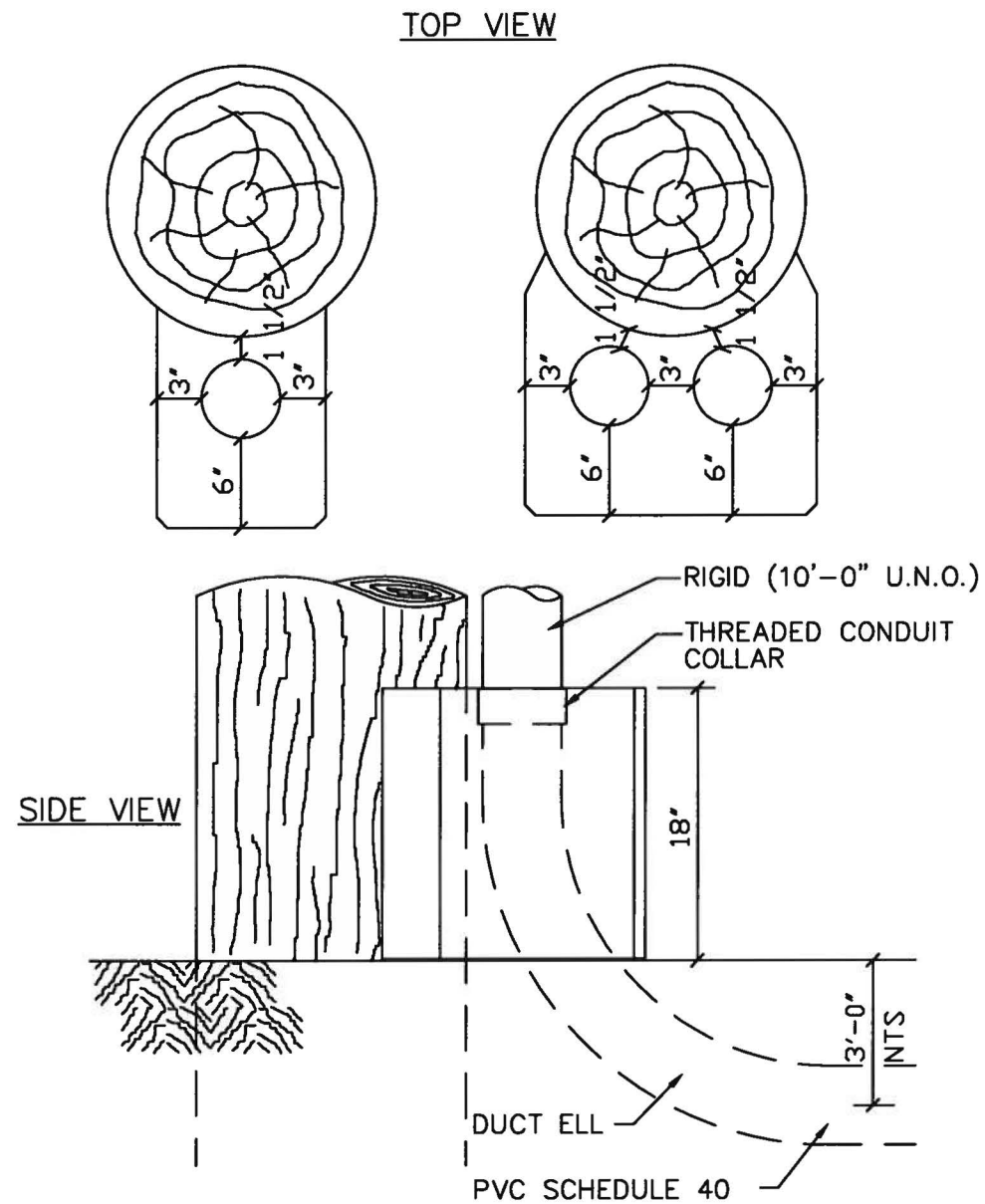
—P—	POWER
—G—	GAS
—T—	TELEPHONE
—X—	FENCE
⎓	SWITCH (DISCONNECT)
Ⓜ	METER PACK

SITE PLAN-ELECTRICAL

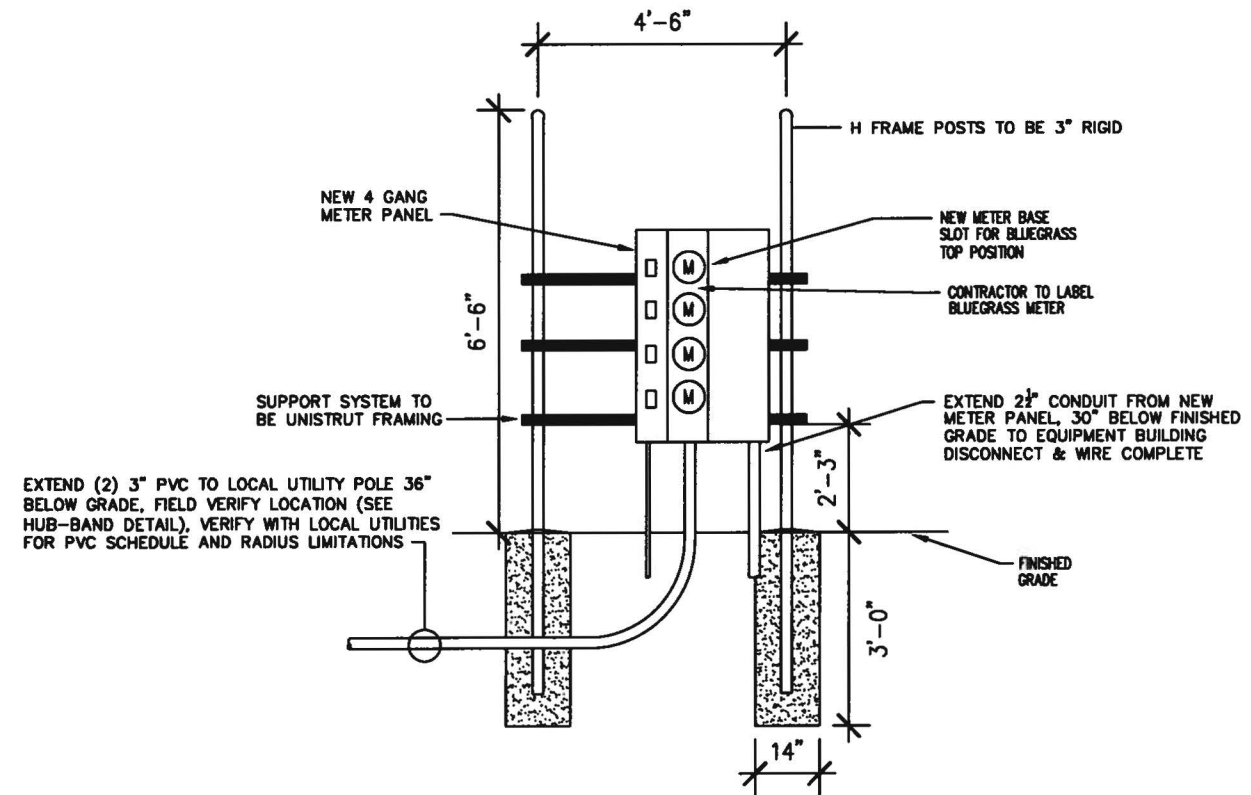
SCALE: 3/32" = 1'-0"

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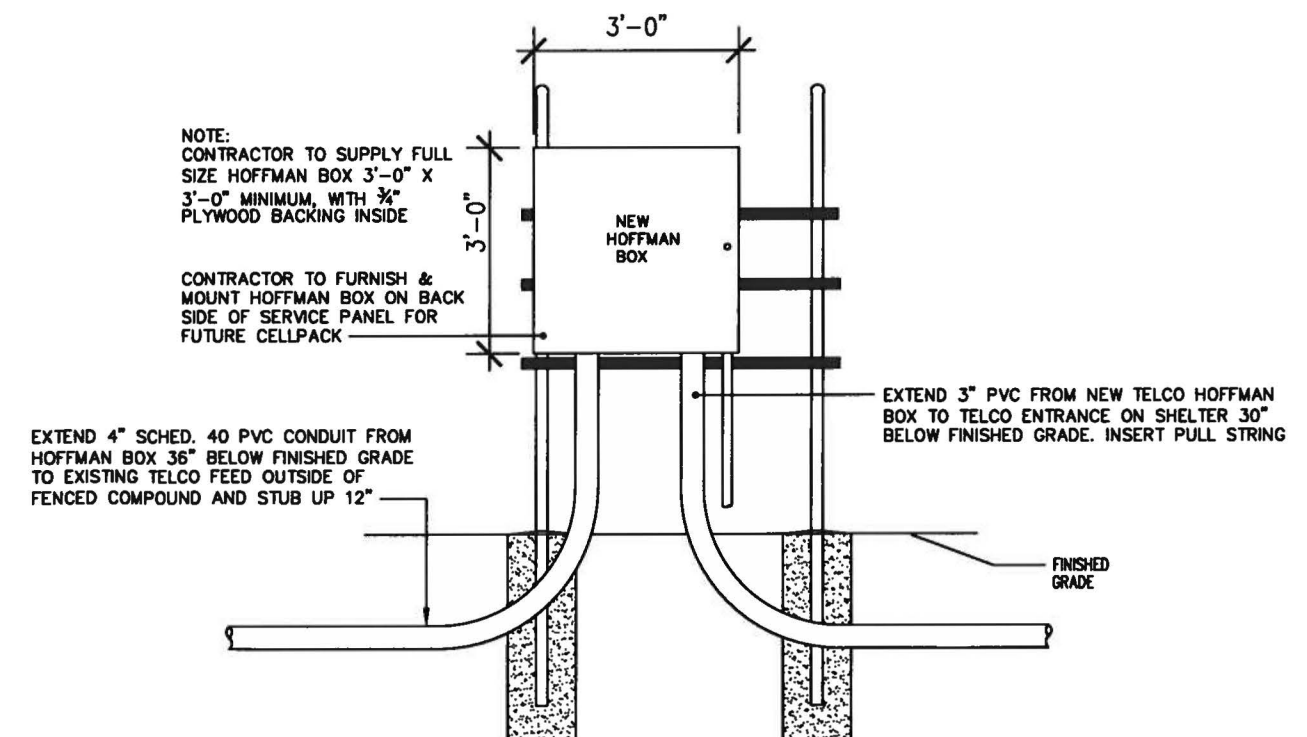
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH
693 J E BICKETT RD. RAYWICK, KY. 40060



HUB-BAND DETAIL
NO SCALE



SERVICE BOARD DETAIL
NO SCALE



BACKBOARD DETAIL
NO SCALE



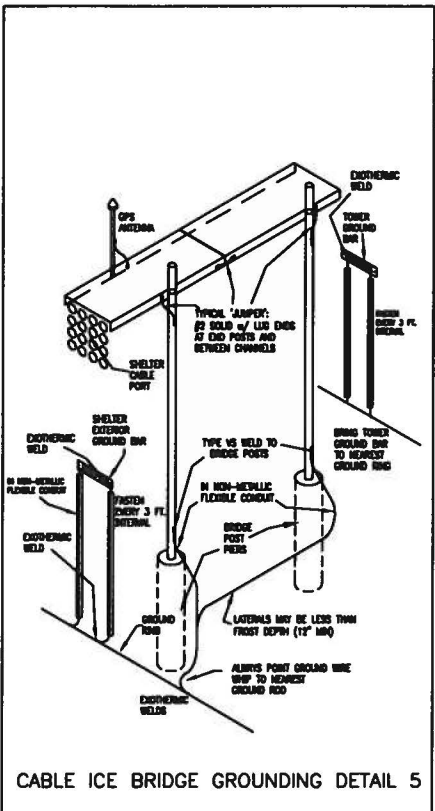
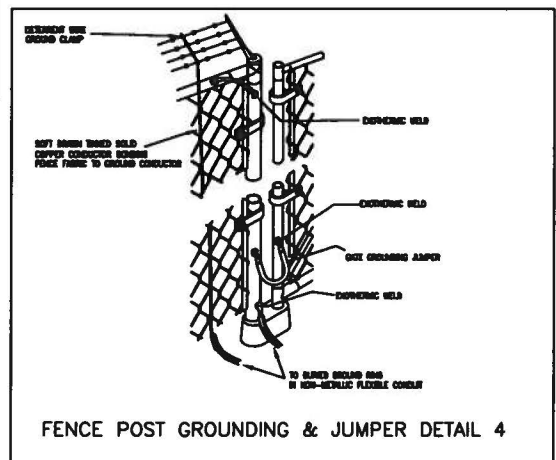
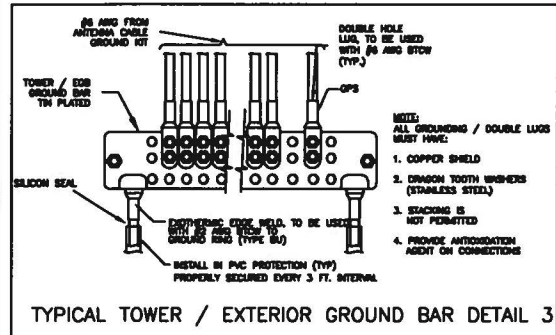
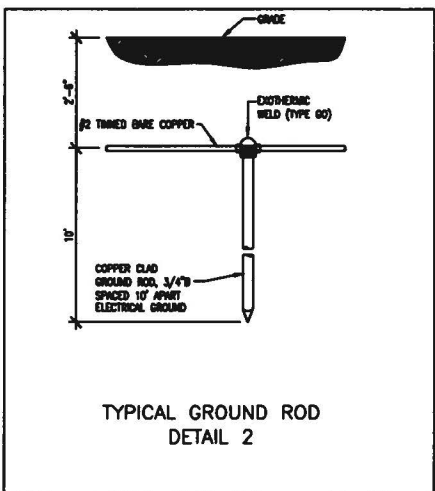
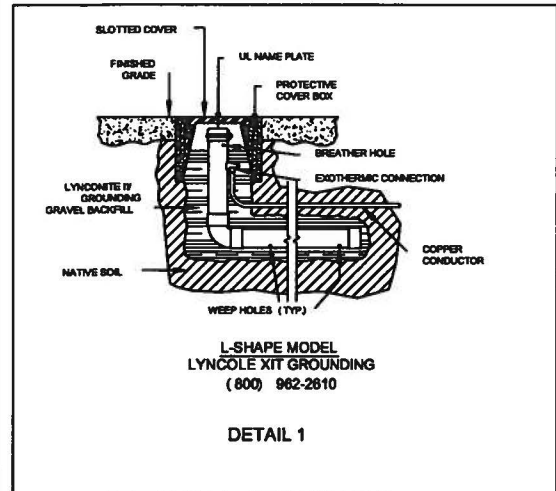
693 J E BICKETT RD. RAYWICK, KY. 40060

NO.	DATE	REVISION

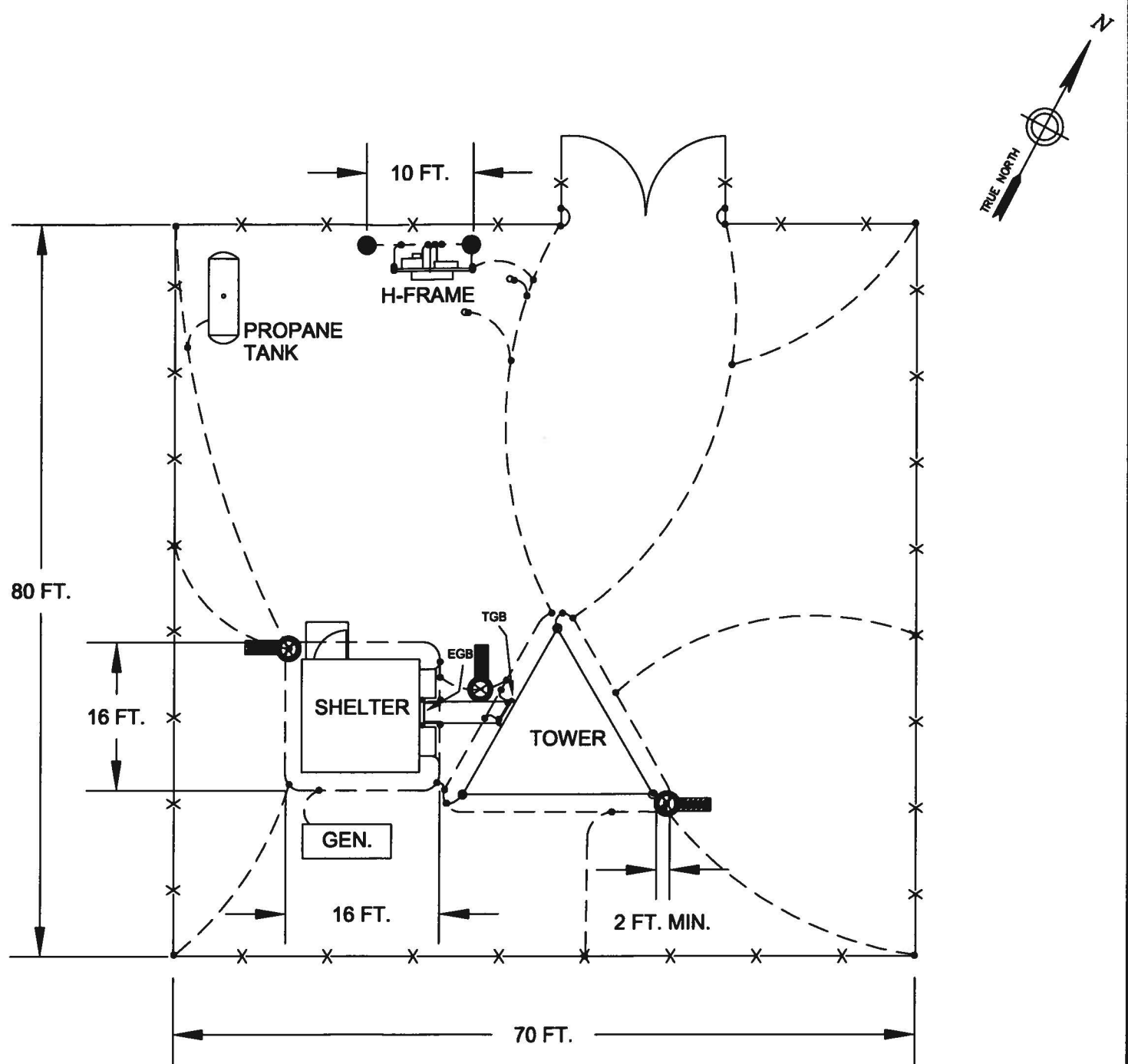
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH

DRAWN BY: R. BECKER
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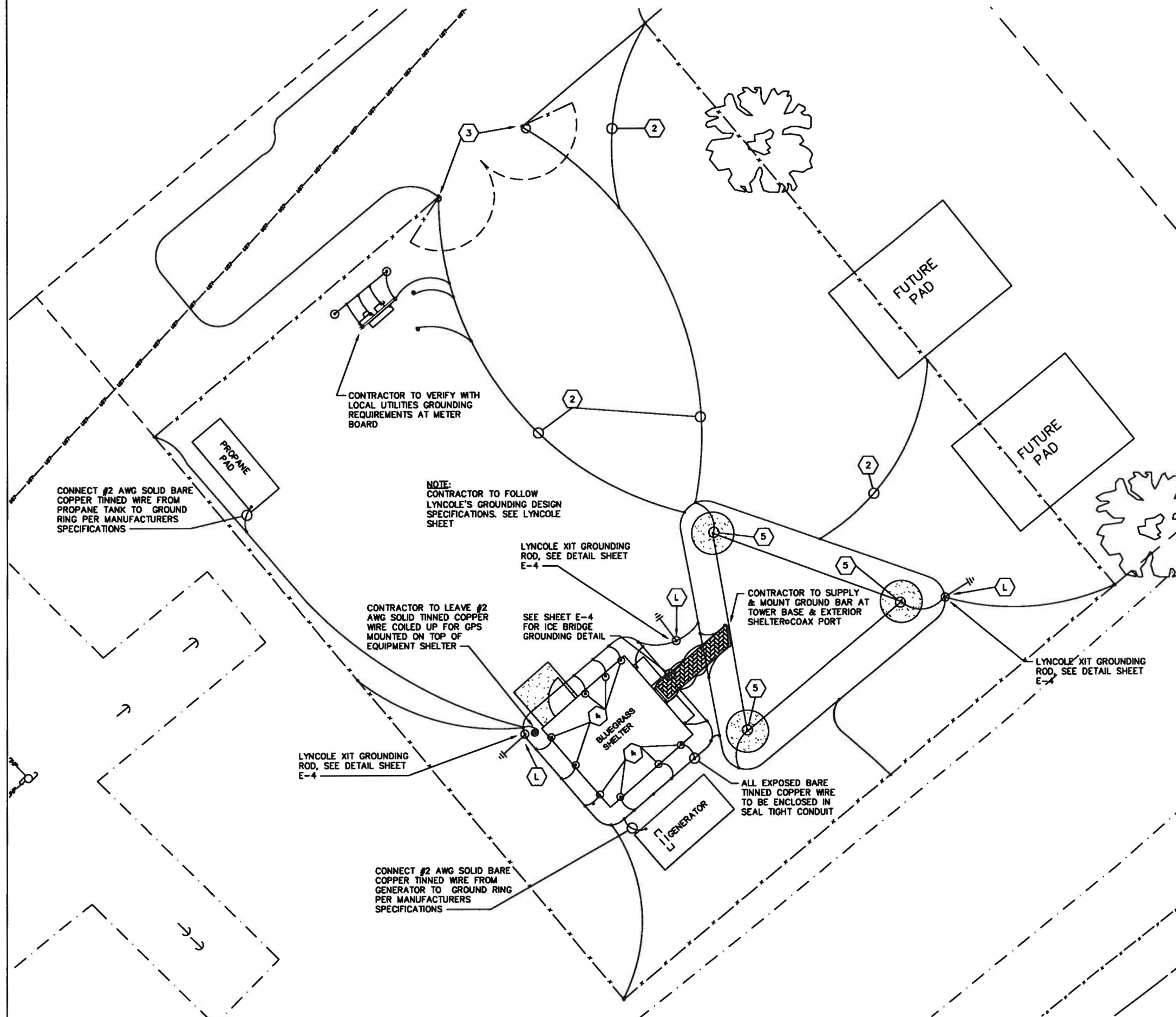
SHEET NUMBER
E-2



- NOTES:**
- X — FENCE LINE
 - — — BARE #2 AWG TINNED SOLID COPPER CONDUCTOR BURIED 30 IN. BELOW GRADE OR 6 IN. BELOW FROST LINE
 - — — BARE #2 AWG TINNED SOLID COPPER CONDUCTOR IN NON-METALLIC FLEXIBLE CONDUIT
 - ALL BENDS IN GROUND CONDUCTORS TO BE MADE WITH 12 IN. RADIUS OR LARGER
 - K2L-10CS-24 (SEE DETAIL 1)
 - 3/4 IN. X 10 FT. COPPER CLAD GROUND ROD (SEE DETAIL 2)
 - TIN PLATED GROUND BAR
 - EXOTHERMIC WELD



LYNCOLE TECHNICAL SERVICES 3547 VOYAGER STREET, SUITE 204 TORRANCE, CA. 90503 (800)962-2610 FAX (310)214-1114 ENGINEERING@LYNCOLE.COM		CLIENT / END USER BLUEGRASS CELLULAR	
		DRAWING 1	PROJECT NAME GRAVEL SWITCH
TITLE GROUNDING OPTION		LOCATION: CITY, STATE RAYWICK, KY	
		CALCULATED RESISTANCE < 5 OHMS	
DRAWN BY BBD		APPROVED BY	DATE 06/11/18
SOIL DATA PROVIDED BY TERRACON		REFERENCE NUMBER N/A	SCALE NONE
		LTS NUMBER 20181206	



GENERAL ELECTRICAL NOTES:

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

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

3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.

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

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

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

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

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

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

NOTE:
CONTRACTOR TO PROVIDE WARNING TAPE IN ALL POWER & TELCO TRENCHES, 12" ABOVE CONDUIT RUNS, BUT BELOW FINISHED GRADE.

NOTE:
CONTRACTOR TO FOLLOW LYNCOLES GROUNDING SPECIFICATIONS WHEN USING THEIR XIT GROUNDING RODS. SEE DETAIL SHEET E-4.

KEYNOTES:

① LYNCOLE XIT GROUNDING ROD TO BE INSTALLED WHERE SHOWN AND TO MANUFACTURERS SPECIFICATIONS. (SEE LYNCOLE SPECIFICATIONS)

② GROUNDING RODS 10'-0" LONG x 3/4" COPPER BONDED GROUND RODS

③ 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)

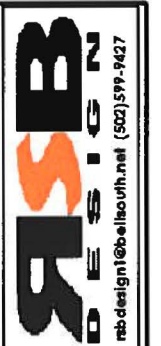
④ FLEXIBLE GROUNDING STRAP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND CHAIN LINK FENCE, #2 AWG SOLID COPPER BARE TINNED CONDUCTOR FROM GROUND RING TO FENCE USING CAD WELD CONNECTIONS. GROUND TAP TO BE PROVIDED ON EACH 4 SIDES TO GROUND RING AS DESCRIBED ABOVE.

⑤ 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.

⑥ FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY AT SPOT TO "CAD WELD" TO AND CLEAN. #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO BE CAD WELDED APPROXIMATELY 1'-0" ABOVE FOUNDATION OR AT FLANGE IF PROVIDED BY TOWER MANUFACTURER. EXTEND CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED ALL BENDS TO BE SWEEPING.

SITE PLAN-GROUNDING

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



BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH

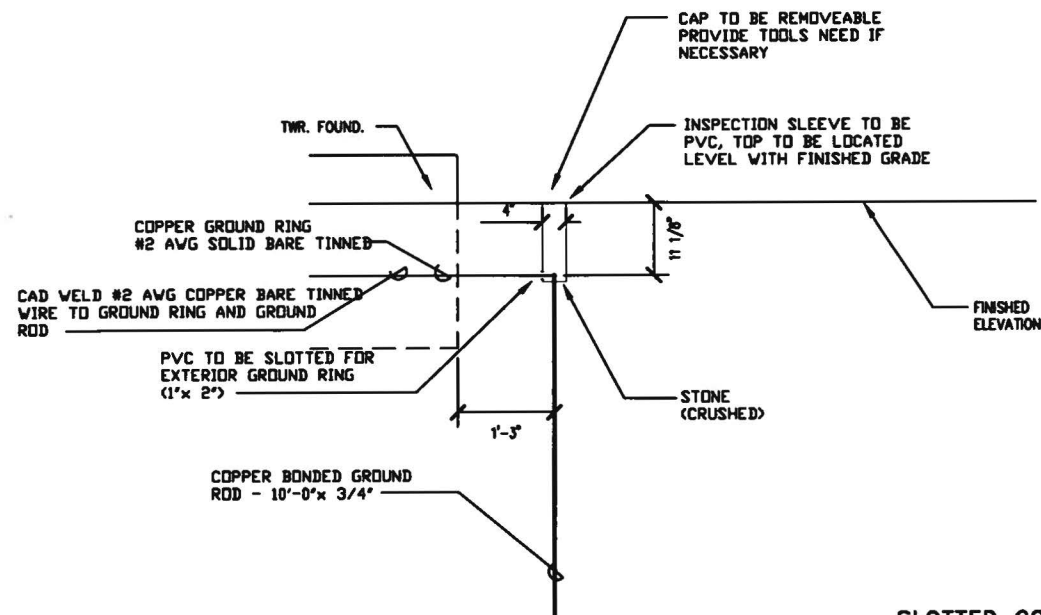
NO.	DATE	REVISION

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STANDARD CELLULAR SITE
GRAVEL SWITCH

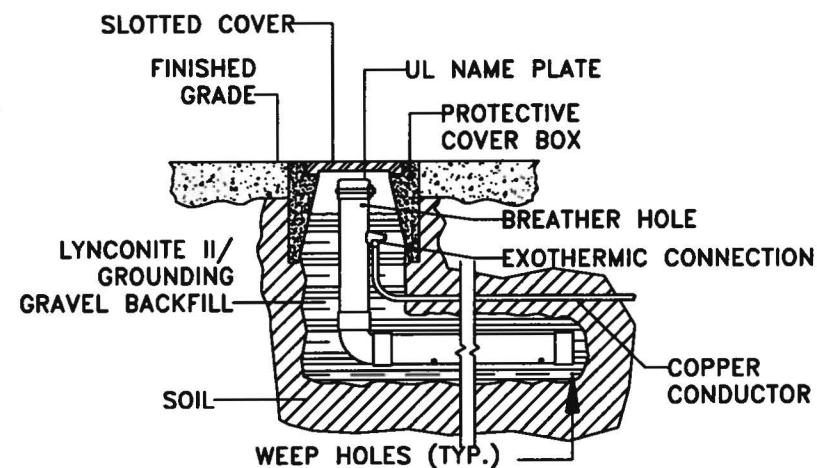
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5-31-18
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LISTED

SHEET NUMBER
E-3



GROUND ROD DETAIL

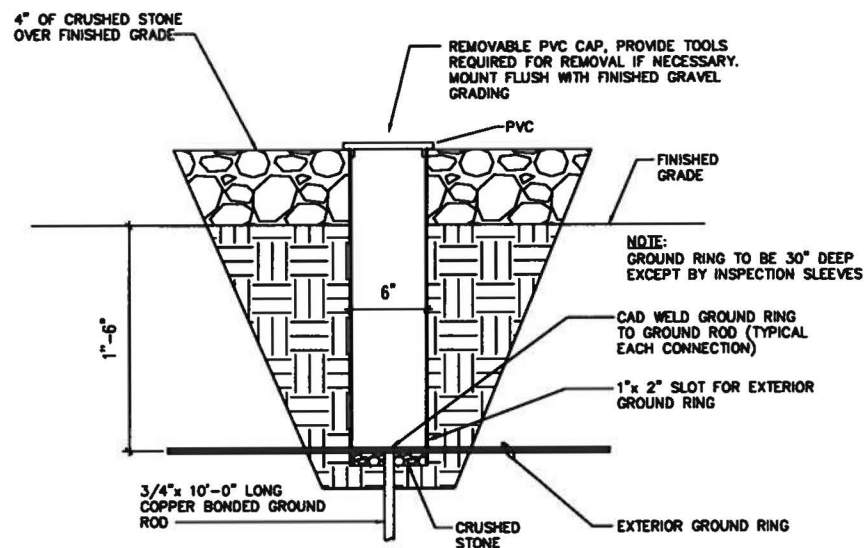
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L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

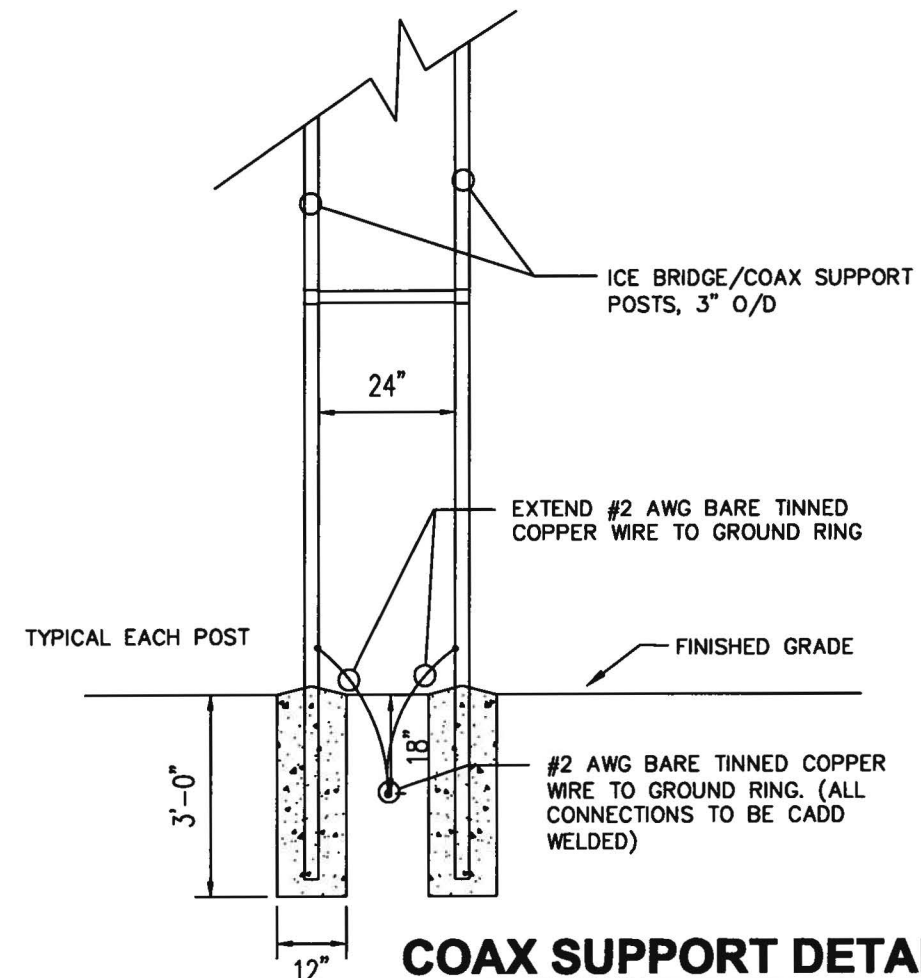
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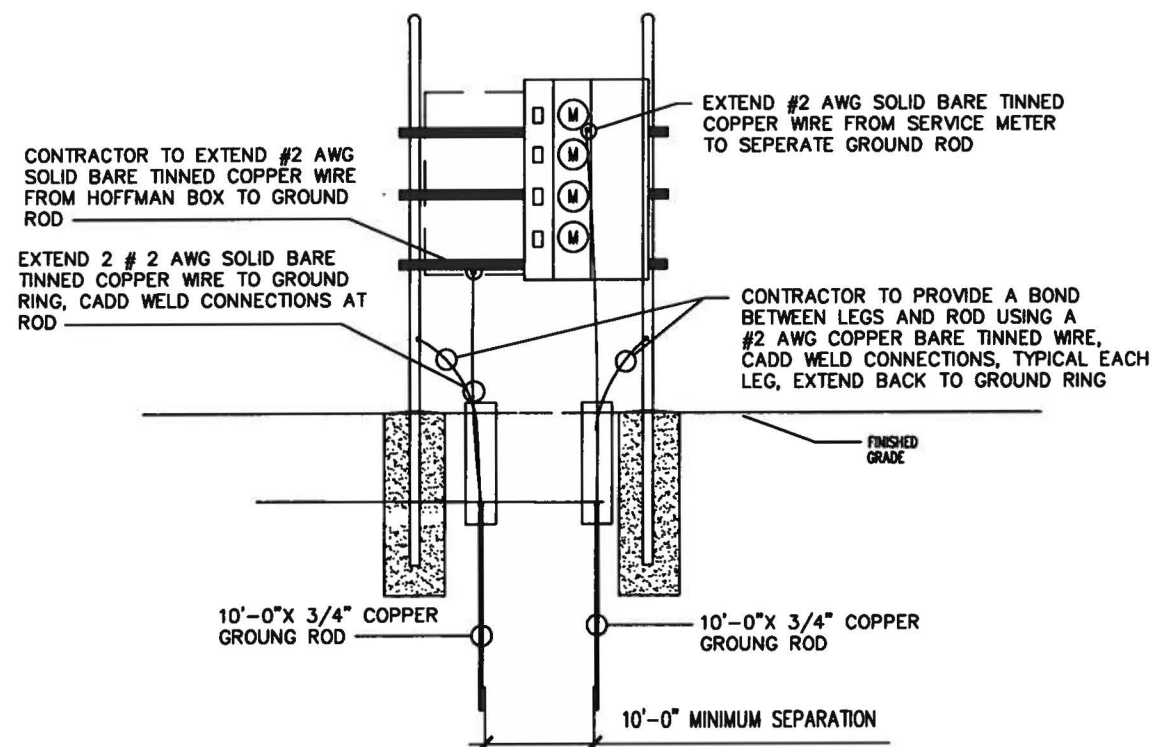
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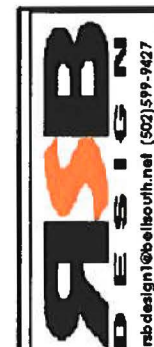
COAX SUPPORT DETAIL

NO SCALE



SERVICE BOARD DETAIL

NO SCALE



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REVISION

NO. DATE

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GRAVEL SWITCH
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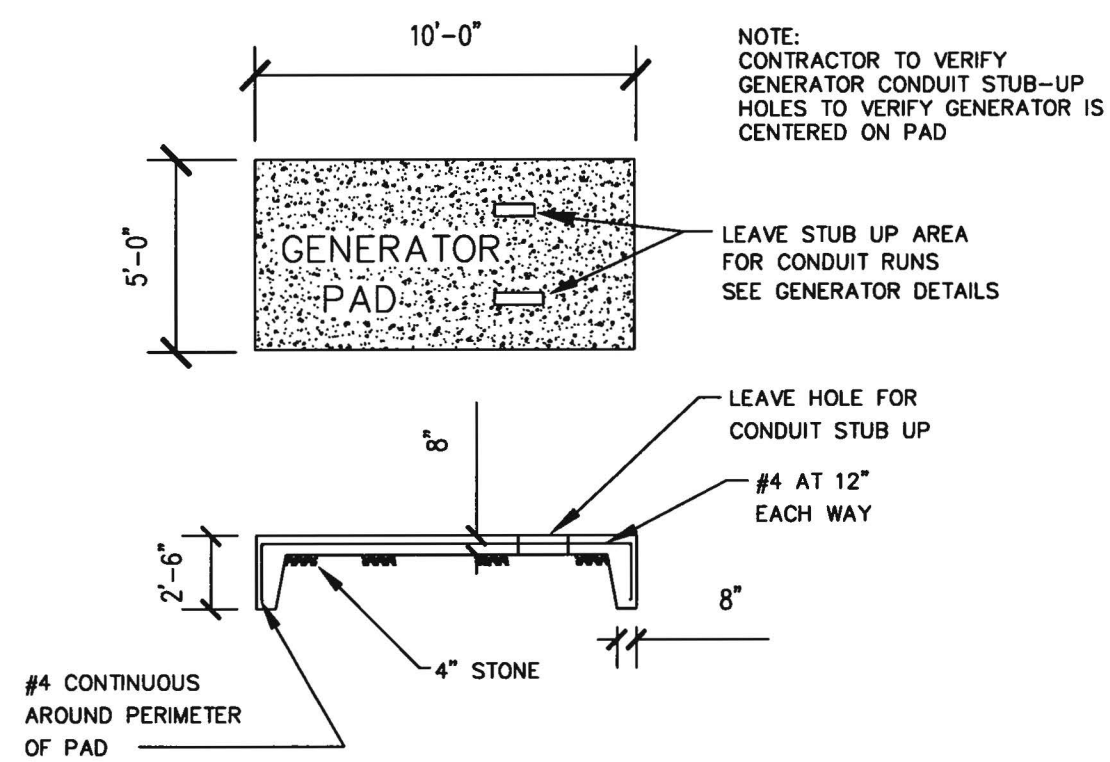
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5-31-18

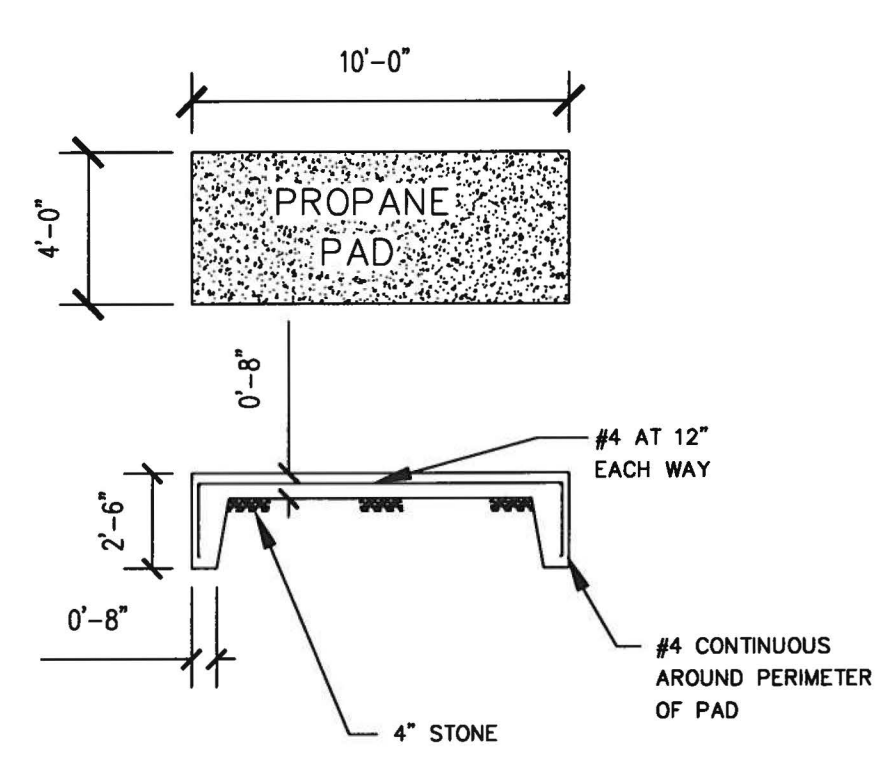
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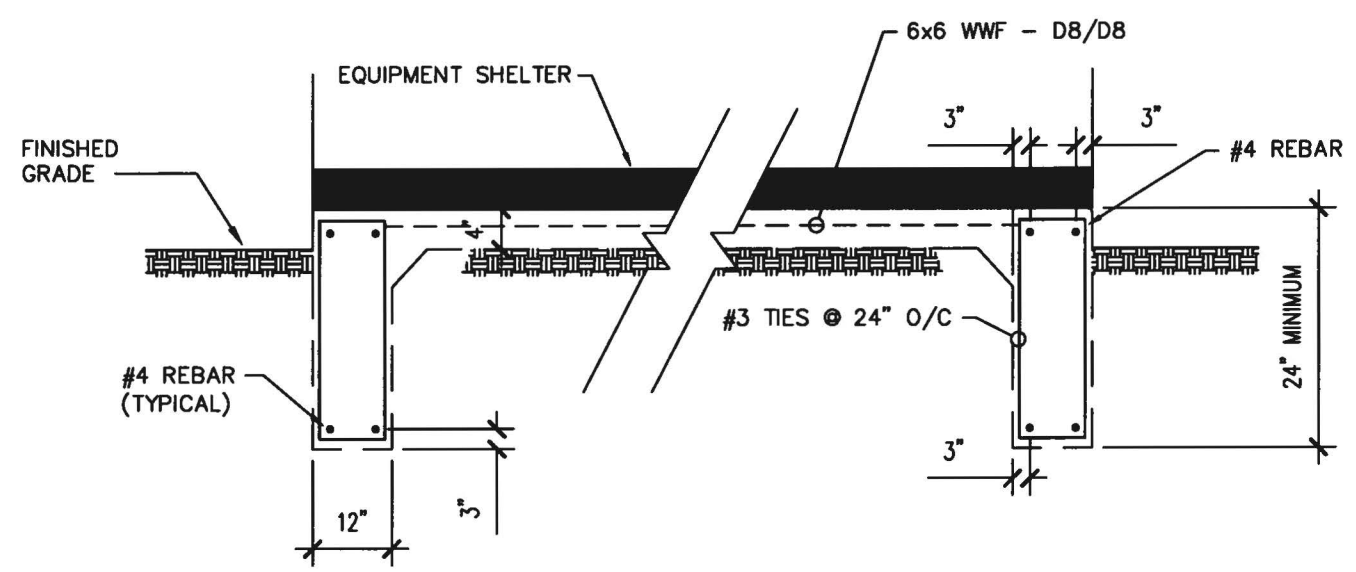
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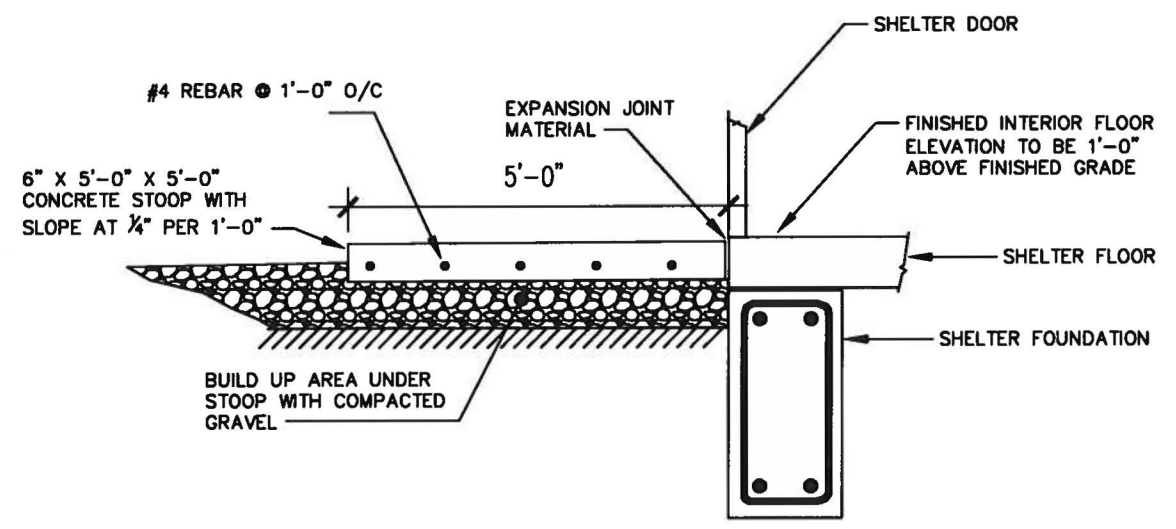
FOUNDATION DETAIL
NO SCALE




FOUNDATION DETAIL
NO SCALE



SHELTER FOUNDATION PLAN
NO SCALE



CONCRETE STOOP DETAIL
NO SCALE



BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH
693 J E BICKETT RD. RAYWICK, KY. 40060

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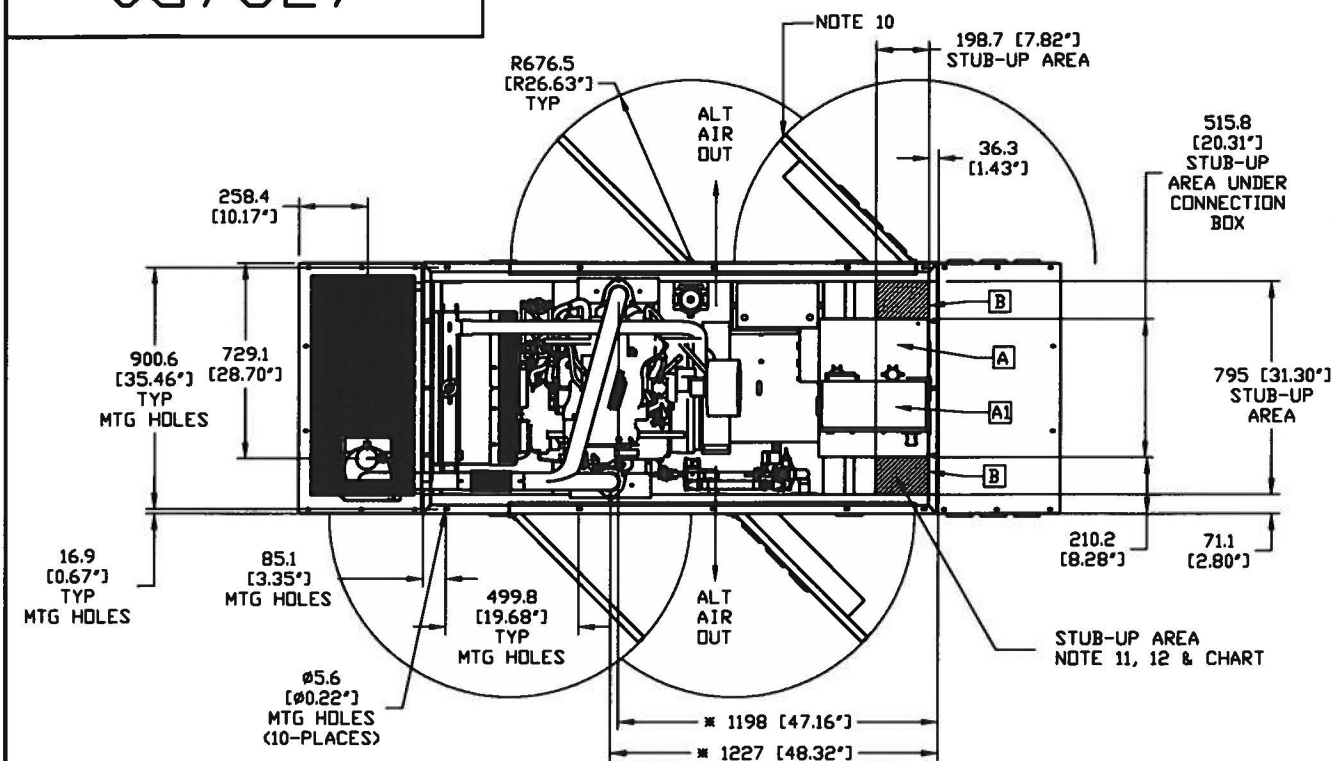
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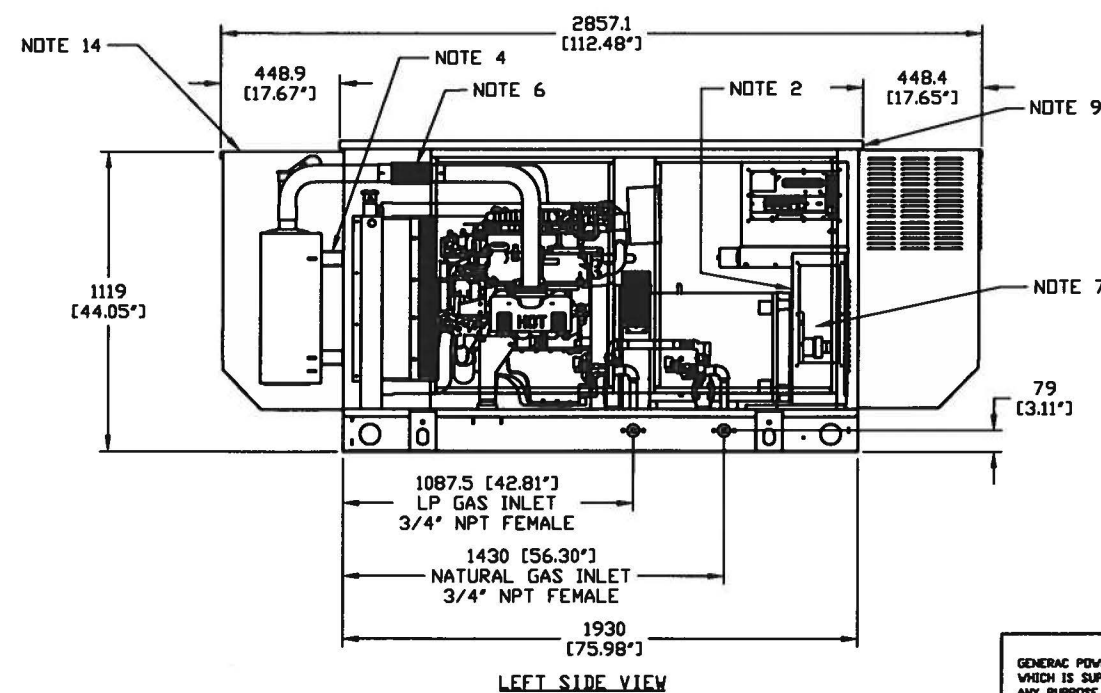
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S-1

0G7627

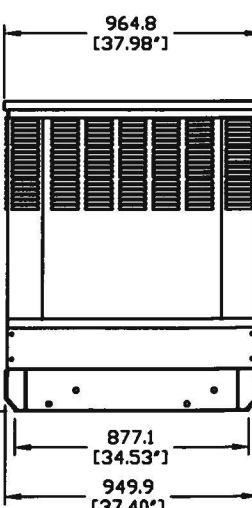


TOP OR PLAN VIEW

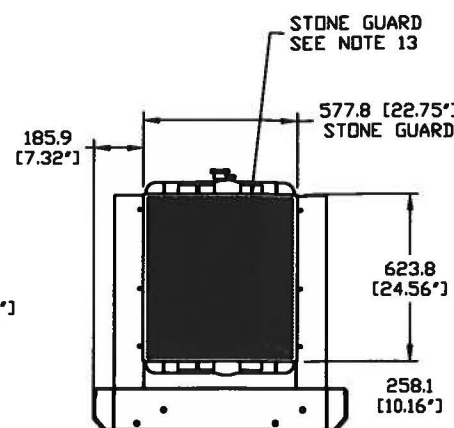


LEFT SIDE VIEW

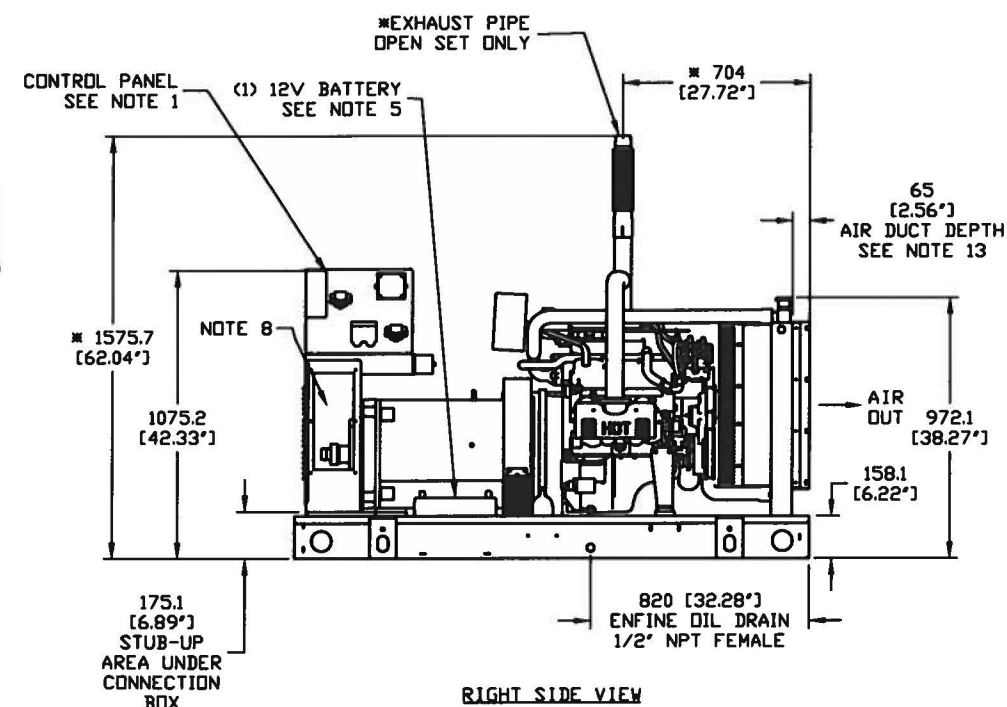
APPLICABLE TO 4.5L G3 35, 40 & 45KW



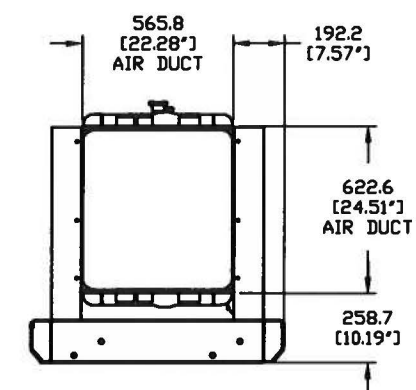
REAR VIEW



RADIATOR END VIEW WITH STONE GUARD OPTION



RIGHT SIDE VIEW



RADIATOR END VIEW WITH AIR DUCT ADAPTER OPTION

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

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

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

UNITS: mm [INCHES]

ENGINE SERVICE CONNECTIONS

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

NOTES:

- CONTROL PANEL MAY BE ROTATED 180° IN EITHER DIRECTION.
 - STANDARD 20A GFCI DUPLEX OUTLET - 120VAC REQUIRED.
 - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN AC CONNECTION PANEL.
 - EXHAUST MUFFLER SUPPORT BRACKETS SUPPLIED WITH OPTIONAL ENCLOSURE.
 - 12 VOLT NEGATIVE GROUND SYSTEM.
 - 2.5" I. D. FLEX EXHAUST, STANDARD WITH ENCLOSURE UNITS, OPTIONAL WITHOUT.
 - MAIN LINE CIRCUIT BREAKER (MLCB) AND AC LOAD LEAD CONNECTION.
 - REMOVABLE BLANK PANEL FOR OPTIONAL 2nd MAIN LINE CIRCUIT BREAKER.
 - OPTIONAL ENCLOSURE.
 - DOORS MUST BE ABLE TO OPEN 90 DEG. TO BE REMOVED.
 - STUB-UPS:
STANDARD BASE TANK REQUIRES ALL STUB-UPS TO BE OUTSIDE OR IN THE REAR TANK STUB-UP AREA.
 - A OR A' IS THE STUB UP AREA UNDER THE MLCB, DEPENDING ON CIRCUIT BREAKER LOCATION. AREA B IS STUB UP AVAILABLE FOR UNITS WITH A BASE TANK.
 - STONE GUARD AND AIR DUCT ADAPTER STANDARD WITH OPEN SET ONLY.
 - SEE DRAWING OC3850 FOR DUCT REMOVAL. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.
- *NOTE: DIMENSIONS TO THE CENTER OF EXHAUST FLANGE SHOULD BE USED AS A REFERENCE WHEN EXHAUST SYSTEM IS NOT ORDERED. APPLIES TO OPEN SET ONLY.

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS.
© GENERAC POWER SYSTEMS 2001

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

4.2L DIRECT DRIVE

ACOUSTIC ENCLOSURE

ISSUE DATE: 11/13/07

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

FILE NAME 0G7627-A.DWG SIZE B

SCALE NTS FIRST USE 4.2L G3

DWG NO. 0G7627 REV A

INSTALLATION DRAWING

GENERAL NOTES:

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

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

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

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

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

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

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

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

9) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS.

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

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

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

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

14) CONTRACTOR'S RESPONSIBILITIES REGARDING BUILD OUT ON FIBREBOND EQUIPMENT SHELTERS TO INCLUDE:

- * INSTALLING THE DOOR CANOPY
- * INSTALLING EXTERIOR LIGHT ON WALL DETERMINED BY PROJECT SUPERVISOR AND PHOTOCELL REQUIREMENTS
- * INSTALLING INTRUDER ALARMS
- * CHECK OPERATIONS OF DOOR AND DOOR HARDWARE
- * ADJUST WEATHERSTRIPPING ON DOORS AS NEEDED
- * INSPECT ROOF FOR DAMAGE AND POSSIBLE LEAKS
- * INSPECT INTERIOR FINISH FOR IMPERFECTIONS AND REPAIR AS NEEDED
- * CHECK OPERATION OF LIGHTS AND ELECTRICAL OUTLETS
- * CHECK OPERATION OF INTAKE AND EXHAUST LOUVERS AND ADJUST AS NEEDED
- * CHECK OPERATION OF ENVIRONMENTAL CONTROLS AND HVAC UNITS
- * INSTALL AND PAINT SHELTER TIE-DOWNS TO MATCH

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

16) INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.

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

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

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

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

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

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

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

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

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

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

27) GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCING.

28) ALL TRASH AND DEBRIS TO BE REMOVED BY GC

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

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

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

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

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

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

GRADING & EXCAVATING NOTES:

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

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

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

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

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

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

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









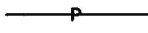
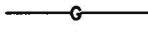
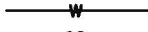
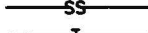

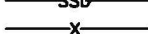

8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATIONS TO BE USED IF EXCAVATION EXCEEDED THE OVERALL REQUIRED DEPTH. FOR STABILIZATION OF THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE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

9) EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.

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

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

SYMBOLS LEGEND

	KEYNOTE
	INSP. 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



REVISION		DATE	

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
GRAVEL SWITCH
693 J E BICKETT RD. RAYWICK, KY. 40060

DRAWN BY: R. BECKER	ISSUE DATE: 5-31-18	SCALE: LISTED
------------------------	------------------------	------------------

SHEET NUMBER
General Notes

"CALL BEFORE YOU DIG"

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

SITE: GRAVEL SWITCH
Lease Boundary and Topographic Survey
Marion County, Kentucky

Basis of Bearings

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2018 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCDRS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

Tower Location Information

DESIGNATION: GRAVEL SWITCH
SITE ID#: NONE
HORIZONTAL DATUM: NAD 83 (2011)
LATITUDE: 37°35'34.44" NORTH
LONGITUDE: 85°02'41.75" WEST
VERTICAL DATUM: NAVD 88
GROUND ELEVATION: 855.8 FEET (260.85 M)
STATE PLANE COORDINATES
NORTHING: 3,099,761.77 FEET
(640,013.370 M)
EASTING: 1,844,599.18 FEET
(562,265.435 M)

Landowner Information

LANDOWNERS: ALLEN MINOR HARMON, JR.
AND PEGGY H. BROWN
ADDRESS: 2702 OAKWOOD DRIVE
BARDSTOWN, KY 40004
CONTACT PERSON: ALLEN MINOR HARMON
PHONE NUMBER: 502-510-0914
PVA MAP NUMBER: 101-010

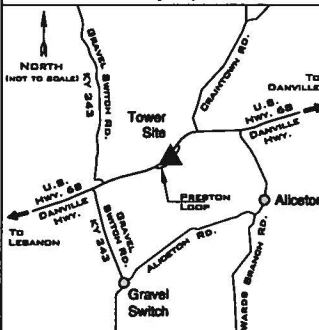
Project Bench Mark

NORTHING: 3,099,761 FEET (640,008 M)
EASTING: 1,844,615 FEET (562,240 M)
ELEVATION: 858.27 FEET (261.601 M)
DESCRIPTION: A RAILROAD SPIKE SET IN THE NORTHWEST SIDE OF A UTILITY POLE, 12" ABOVE GRADE, THAT IS 85 FEET WESTERLY OF THE CENTER OF THE TOWER.

Flood Plain Statement

ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) FOR MARION COUNTY, KENTUCKY AND INCORPORATED AREAS, MAP NO. 21155C0225C, DATED JANUARY 6, 2010, THE SUBJECT SITE LIES WITHIN "OTHER AREAS - ZONE X". THIS ZONE IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".

Vicinity Map



Directions to the Site

FROM ELIZABETHTOWN, KENTUCKY: TRAVEL SOUTHEASTERLY ON KENTUCKY HIGHWAY 61 (LINDOLN PARKWAY) FOR ABOUT 11 MILES TO DOWNTOWN HODGENVILLE AND U.S. HIGHWAY 31E; TRAVEL EASTERLY ON U.S. HIGHWAY 31E FOR ABOUT 5 MILES TO KENTUCKY HIGHWAY 84 IN WHITE CITY; TURN RIGHT ONTO KENTUCKY HIGHWAY 84 AND CONTINUE TO TRAVEL EASTERLY FOR ABOUT 18 MILES TO RAYWICK; FROM RAYWICK, CONTINUE EASTERLY ON KENTUCKY HIGHWAY 84 (RAYWICK ROAD) FOR 4.6 MILES TO KENTUCKY HIGHWAY 426; TURN RIGHT ONTO KENTUCKY HIGHWAY 426 AND CONTINUE EASTERLY FOR 3.4 MILES TO U.S. HIGHWAY 68 (CAMPELLEVILLE ROAD); TURN LEFT ONTO U.S. HIGHWAY 68 AND TRAVEL NORTHEASTERLY FOR 2.6 MILES TO DOWNTOWN LEBANON; FROM LEBANON, TRAVEL EASTERLY ON U.S. HIGHWAY 68 (DANVILLE HIGHWAY) FOR 11.9 MILES TO PRESTON LOOP, WHICH IS 0.8 MILES WEST OF THE BOYLE COUNTY LINE; TURN RIGHT ONTO PRESTON LOOP AND TRAVEL NORTHEASTERLY FOR 0.15 MILES TO A DIRT AND STONE LANE ON THE LEFT OR NORTH SIDE OF THE ROAD; TURN LEFT ONTO THE LANE AND TRAVEL NORTHWESTERLY FOR 250 FEET TO THE TOWER SITE, WHICH LIES IN A GRASS AREA BETWEEN U.S. HIGHWAY 68 AND PRESTON LOOP.

P.O.C. of Lease Tract

CORNER OF THE 14.626-ACRE TRACT DESCRIBED IN DEED TO THE COMMONWEALTH OF KENTUCKY IN DEED 270, PAGE 516 IN THE OFFICE OF THE COUNTY CLERK OF MARION COUNTY, KENTUCKY. STATION 137+00.00, 100' RIGHT PER PLANS FOR U.S. HIGHWAY 68, PROJECT NOS. JLO3 D11 0068 000-002 AND JLO3 D78 0068 028-024, DATED JANUARY 20, 2010.

Lease Boundary and Easement Description

A TRACT OF LAND THAT IS LOCATED 1,900 FEET SOUTHWESTERLY OF THE INTERSECTION OF U.S. HIGHWAY 68 (DANVILLE HIGHWAY) AND CRAINTOWN ROAD IN THE GRAVEL SWITCH COMMUNITY OF MARION COUNTY, KENTUCKY; SAID TRACT BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 6-INCH SQUARE CONCRETE RIGHT OF WAY MONUMENT FOUND EXPOSED 24 INCHES AT A CORNER IN THE SOUTHEASTERN BOUNDARY OF THE 14.626-ACRE TRACT DESCRIBED IN DEED TO THE COMMONWEALTH OF KENTUCKY ON APRIL 4, 2008 IN DEED BOOK 270, PAGE 516 IN THE OFFICE OF THE COUNTY CLERK OF MARION COUNTY, KENTUCKY; SAID MONUMENT BEING ON THE SOUTHEASTERN RIGHT OF WAY OF U.S. HIGHWAY 68 AT STATION 137+00.00, 100' RIGHT PER PLANS FOR U.S. HIGHWAY 68, PROJECT NOS. JLO3 D11 0068 000-002 AND JLO3 D78 0068 028-024, DATED JANUARY 20, 2010; THENCE ALONG SAID RIGHT OF WAY, SOUTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 179.96 FEET; THENCE SOUTH 39 DEGREES 56 MINUTES 46 SECONDS EAST 20.00 FEET TO A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3386" (REFERRED TO AS A REBAR SET IN THE REMAINDER OF THIS DESCRIPTION) AT THE POINT OF BEGINNING OF THIS DESCRIPTION; THENCE NORTH 50 DEGREES 03 MINUTES 14 SECONDS EAST 100.00 FEET TO A REBAR SET FLUSH; THENCE SOUTH 39 DEGREES 56 MINUTES 46 SECONDS EAST 80.00 FEET TO A REBAR SET FLUSH; THENCE SOUTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 100.00 FEET TO A REBAR SET FLUSH; THENCE NORTH 39 DEGREES 56 MINUTES 46 SECONDS WEST 80.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 0.184 ACRES (8,000 SQUARE FEET), MORE OR LESS.

TOGETHER WITH A 20-FOOT WIDE ACCESS AND UTILITY EASEMENT FROM THE ABOVE-DESCRIBED 0.184-ACRE LEASE TRACT TO PRESTON LOOP; SAID EASEMENT BEING DESCRIBED AS FOLLOWS: BEGINNING AT THE WEST CORNER OF THE ABOVE-DESCRIBED 0.184-ACRE LEASE TRACT, WHICH IS MARKED BY A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3386"; THENCE NORTH 39 DEGREES 56 MINUTES 46 SECONDS WEST 20.00 FEET TO THE SOUTHEASTERN RIGHT OF WAY OF U.S. HIGHWAY 68 (DANVILLE HIGHWAY); THENCE ALONG SAID RIGHT OF WAY, NORTH 50 DEGREES 03 MINUTES 14 SECONDS EAST 127.56 FEET; THENCE, LEAVING SAID RIGHT OF WAY, SOUTHEASTERLY 87.00 FEET ALONG AN ARD TO THE RIGHT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 84 DEGREES 37 MINUTES 55 SECONDS EAST AND A LENGTH OF 78.21 FEET; THENCE SOUTH 39 DEGREES 19 MINUTES 04 SECONDS EAST 27.96 FEET TO THE NORTHWESTERN RIGHT OF WAY OF PRESTON LOOP (50 FEET FROM THE CENTERLINE); THENCE, ALONG SAID NORTHWESTERN RIGHT OF WAY, SOUTH 45 DEGREES 24 MINUTES 03 SECONDS WEST 20.08 FEET; THENCE NORTH 39 DEGREES 19 MINUTES 04 SECONDS WEST 79.75 FEET; THENCE NORTHWESTERLY 58.36 FEET ALONG AN ARD TO THE LEFT AND HAVING A RADIUS OF 35.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 84 DEGREES 37 MINUTES 55 SECONDS WEST AND A LENGTH OF 49.77 FEET; THENCE SOUTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 27.56 FEET TO A 5/8-INCH REBAR SET FLUSH WITH SAID HELMS SURVEY CAP AT THE NORTH CORNER OF THE ABOVE-DESCRIBED 0.184-ACRE LEASE TRACT; THENCE CONTINUE SOUTH 50 DEGREES 03 MINUTES 14 SECONDS WEST 100.00 FEET TO THE POINT OF BEGINNING.

THE BEARING SYSTEM OF THIS DESCRIPTION IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2018 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCDRS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

THIS DESCRIPTION IS BASED UPON A SURVEY COMPLETED BY LANDMARK SURVEYING CO., INC. AND CERTIFIED BY DARREN L. HELMS, P.L.S. 3386, ON MAY 31, 2018.

SOURCE OF TITLE: BEING A PORTION OF AND LYING ENTIRELY WITHIN THE LAND DESCRIBED IN DEED TO PEGGY H. BROWN AND ALLEN MINOR HARMON ON JUNE 28, 2005 IN DEED BOOK 251, PAGE 355 IN THE OFFICE OF THE COUNTY CLERK OF MARION COUNTY, KENTUCKY.

Notes

1. ANY ENCUMBRANCES AND LANDOWNER INFORMATION SHOWN HEREON, REGARDING THE SUBJECT TRACT, ARE BASED UPON A TITLE SEARCH COMPLETED BY ABSTRACTS & TITLES, INC. OF LOUISVILLE, KENTUCKY, DATED MARCH 13, 2018, EXAM NO. 232492.
2. THE UTILITIES SHOWN ON THIS PLAN MAY OR MAY NOT REPRESENT ALL OF THE UTILITIES LOCATED AT THE SUBJECT SITE. THE PRESENCE OF UTILITIES WAS DETERMINED BY A VISUAL INSPECTION OF THE PROPERTY SURFACE. NO UTILITY LOCATE WAS CALLED IN PRIOR TO THIS SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION.
3. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAN WAS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL OF THE TOPOGRAPHIC FEATURES LOCATED AT THE SUBJECT SITE.
4. ACCORDING TO THE OFFICE OF MR. DAVID R. DAUGHERTY, MARION COUNTY JUDGE EXECUTIVE, NO LOCAL PLANNING UNIT EXISTS WHICH HAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 502-692-3451 FOR CONFIRMATION.
5. THE PROPOSED LOCATION OF THE GRAVEL SWITCH TOWER SITE WILL BE LOCATED OUTSIDE OF AN INCORPORATED CITY.
6. THE ROAD RIGHT OF WAY SHOWN HEREON WERE DETERMINED FROM PLANS PROVIDED BY THE KENTUCKY TRANSPORTATION CABINET - PROJECT NO. 78-22, DATED MAY 31, 1941 (PRESTON LOOP) AND PROJECT NOS. JLO3 D11 0068 000-002 AND JLO3 D78 0068 028-024, DATED JANUARY 20, 2010 (U.S. HIGHWAY 68).

Certification

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN COMPILED FROM A SURVEY ACTUALLY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON APRIL 27, 2018 BY THE METHOD OF REAL TIME KINEMATIC GPS SURVEY AND A RANDOM TRAVERSE WITH SIDESHOTS; THAT THE DIRECTIONS AND DISTANCES SHOWN HEREON ARE BASED UPON AN ADJUSTED TRAVERSE; THAT THE RELATIVE POSITIONAL ACCURACY OF ANY POINT ON THIS SURVEY IS BETTER THAN ± 0.10 FEET ± 200 PPM; AND THAT THIS PLAN REPRESENTS A RURAL BOUNDARY SURVEY AND COMPLIES WITH THE REQUIREMENTS OF 201 KAR 19:150.

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

MAY 31, 2018
DATE



LANDMARK SURVEYING CO., INC.
15 N.E. 3RD STREET
WASHINGTON, INDIANA 47301
(812) 257-0950
Website: landmarksurveyingco.com
Project No. 16-05-0118



Lease Boundary Survey

149 Preston Loop

Gravel Switch, Kentucky 40328

Bluegrass Cellular

2902 Ring Road

Elizabethtown, KY 42701

REVISIONS DATE

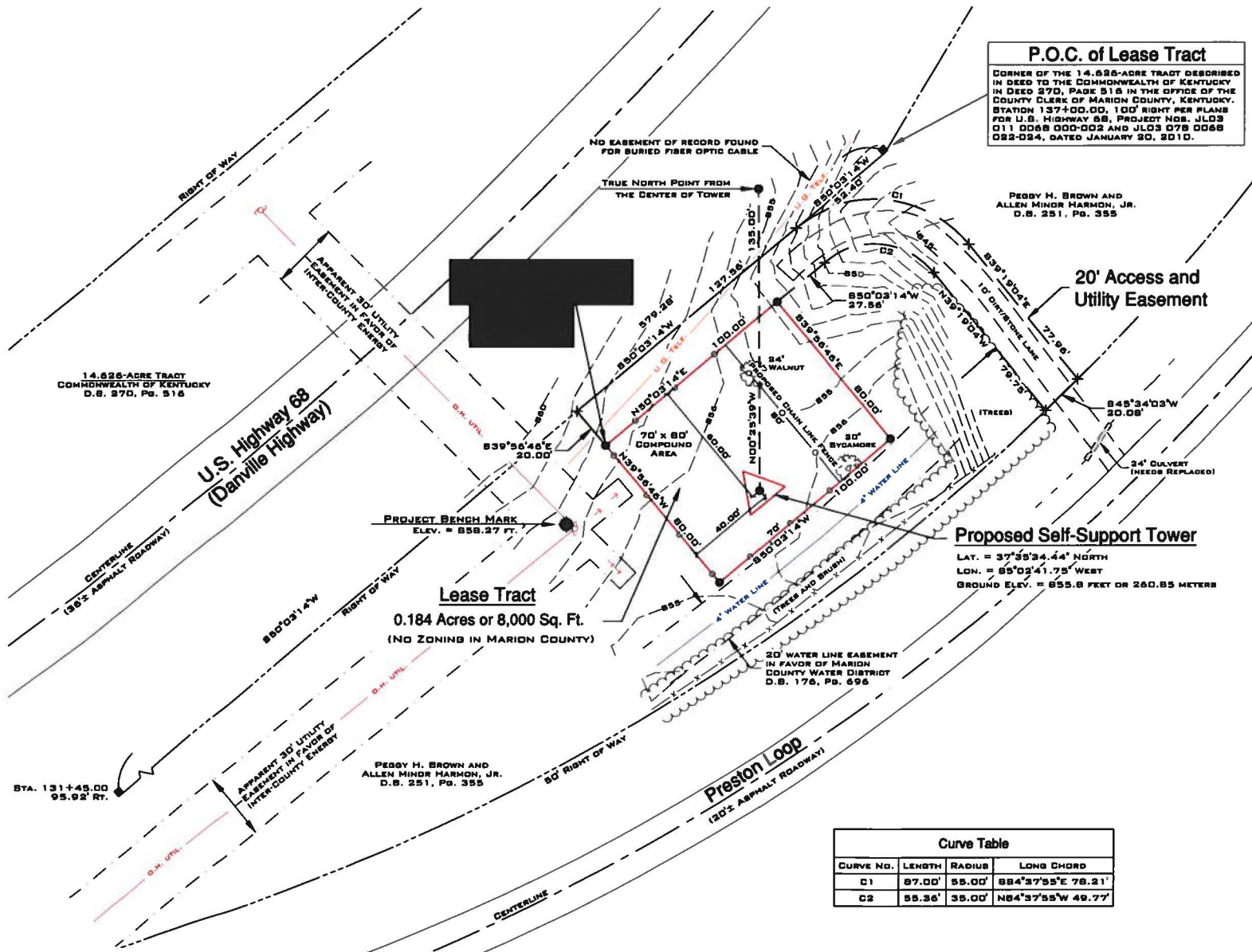
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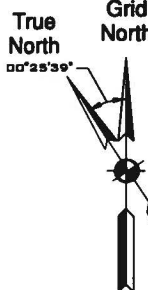
gravel.dwg



Curve Table			
CURVE NO.	LENGTH	RADIUS	LONG CHORD
C1	87.00'	55.00'	884°37'55"E 78.21'
C2	55.36'	35.00'	N84°37'55"W 49.77'

Legend

- 5/8" REBAR, 24" IN LENGTH, SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3386"
- 5/8" REBAR SET FLUSH - NO SURVEY CAP
- 6" SQUARE CONCRETE RIGHT OF WAY MONUMENT FOUND EXPOSED 24"
- + CALCULATED LOCATION
- LEASE BOUNDARIES
- RIGHT OF WAY
- NEW EASEMENT BOUNDARIES
- EXISTING EASEMENT BOUNDARIES
- UTILITY POLE
- GUY ANCHOR
- UTILITY AS NOTED
- X --- X WIRE FENCE



GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.
CONTOUR INTERVAL = 1-FOOT

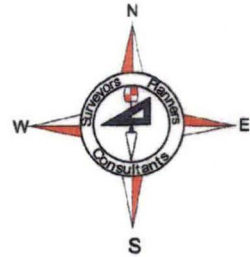
LANDMARK SURVEYING CO., INC.

15 N.E. 3RD STREET • WASHINGTON, INDIANA 47501

PHONE: 812.257.0950 • WEBSITE: WWW.LANDMARKSURVEYINGCO.COM

DARREN L. HELMS, P.S., PRESIDENT

DENNIS N. HELMS, P.S., CPESC, VICE-PRESIDENT



Directions to the Site

From the County Seat of Marion County, Kentucky

Gravel Switch Site

From the intersection of U.S. Highway 68 (West Main Street) and Kentucky Highway 49 (Proctor Knott Avenue) in downtown Lebanon, Kentucky: travel easterly on U.S. Highway 68 (also known as the Danville Highway) for 11.9 miles to Preston Loop, which is 0.8 miles west of the Boyle County Line; turn right onto Preston Loop and travel northeasterly for 0.15 miles to a dirt and stone lane on the left or north side of the road; turn left onto the lane and travel northwesterly for 250 feet to the tower site, which lies in a grass area between U.S. Highway 68 and Preston Loop. The address of the site is 149 Preston Loop, Gravel Switch, Kentucky 40328.

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

MAY 31, 2018
Date



Site Name: Gravel Switch

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 28 day of February 2018 by and between Peggy H. Brown and Allen Minor Harmon, Jr., whose address is 2702 Oakwood Drive, Bardstown, KY 40004 (the "Optionor (s)" and Kentucky RSA #4 Cellular General Partnership (a Kentucky general Partnership) with principal office and place of business at 2902 Ring Road, Elizabethtown, KY 42701 (the "Optionee").

WITNESSETH:

WHEREAS, the Optionor(s) is the owner of certain real property located in Marion 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 a portion of 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 the payment of **One Thousand Eight Hundred Dollars and Zero Cents (\$1,800.00)** paid by the Optionee to the Optionor(s) (the "Option

Site Name: Gravel Switch

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 a portion of the Property upon the terms and conditions hereinafter set forth (the “Option”) for a period of eighteen (18) months, commencing on the date of full execution (the “Option Period”), as set forth in Paragraph 5 thereof.

2. The parties hereto anticipate that the portion of the Property which is the subject of this Option will comprise approximately a **One Hundred Foot by One Hundred Foot** area, together with a right of way across the Property for the purposes of ingress and egress throughout the term of the lease. The Optionee shall obtain an accurate survey of the portion of the Property to be leased by it 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 portion of the Property to be leased by the Optionee, including the right of way, shall be determined by the surveyor and shall hereafter be referred to as the “Leased Premises.” 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 Leased Premises 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 Leased Premises 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

Site Name: Gravel Switch

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, or any portion thereof, 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 Leased Premises 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 Leased Premises 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 Leased Premises 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

Site Name: Gravel Switch

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 Leased Premises. 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: 2702 Oakwood Drive, Bardstown, KY 40004; the Optionee's address shall be: P.O Box 5012, Elizabethtown, KY 42702-5012. Any inquiry by the Optionor to the Optionee regarding the terms and conditions of the Option Agreement or Lease Agreement, or otherwise related to the Option Agreement or Lease Agreement, shall be made in writing and submitted to the attention of the Optionee's Lease Administrator at the above address.

Site Name: Gravel Switch

15. The parties agree that without the express written consent of the other party, neither party shall reveal, disclose or publish to any third party the terms of this Option Agreement or Lease Agreement or any portion thereof, except to such party's auditor, accountant, lender, attorney or to a government entity if required by regulation, subpoena or government order to do so. Notwithstanding the foregoing, either party may disclose the terms of this Option Agreement or Lease Agreement to any of its affiliated entities, and Optionee may disclose the terms of this Option Agreement or Lease Agreement to any of its lenders or creditors or to third parties that are potential lessees or licensees of space at the Leased Premises as may be reasonably necessary with respect to the operation, leasing, licensing and marketing of the Leased Premises.
16. 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 Marion County, Kentucky.

II.

LEASE AGREEMENT

17. In the event the Optionee elects to exercise the Option to lease the Leased Premises, the terms of the Lease Agreement ("Lease Agreement" or "Lease") shall become immediately effective upon such exercise and shall be as follows.
 - a. The term of the Lease shall commence on the date that the Optionor(s) receives proper notice that the Optionee has exercised the Option, pursuant to Paragraph 5 therein. The initial term shall expire **five (5) year(s)** from the commencement date of the Lease Agreement and shall include **six (6) additional five (5)-year terms** per the Lease Agreement. Optionee may, by providing written notice at least **sixty (60) days** prior to the expiration of the

Site Name: Gravel Switch

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%.

- b. The Optionee shall pay to the Optionor(s) rent for the Leased Premises in the sum of Four Thousand Eight Hundred Dollars and Zero Cents (\$4,800.00) yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph 14 hereof. Any check payment of the rent due under the Lease shall be payable to the order of Optionor(s).
- c. The Optionee shall be entitled to use and occupy the Leased Premises for the purpose of erecting, maintaining and operating a communications tower ("Tower") and communications facilities ("Facilities") thereon and for all such other uses as Optionee may, in its sole discretion, deem necessary in connection therewith.
- d. The Optionor(s) hereby grants Optionee easements on, under and across the Property for ingress, egress, utilities and access (including access for the purposes described in Paragraph 2) to the Leased Premises adequate to install and maintain utilities, including, but not limited to, the installation of power and telephone service cable, and to service the Leased Premises and the Tower and Facilities at all times during the Initial Term of the Lease and any Renewal Term ("Easement"). The Easements provided hereunder shall have the same term as this Lease.

Site Name: Gravel Switch

- e. In the event the Property is encumbered by a mortgage or deed of trust, Optionor(s) agrees, upon request of Optionee, to obtain and furnish to Optionee a non-disturbance and attornment agreement for each such mortgage or deed of trust.
- f. 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. In the event Optionor(s) fails to pay, when due, real estate taxes assessed against the Property ("Delinquent Taxes"), Optionee shall have the right, but not the obligation, to pay said Delinquent Taxes on Optionor(s) behalf and withhold such amount from future rental payments described in Paragraph 17(b) above. Optionee's election to pay any Delinquent Taxes in no way binds or obligates Optionee to continue to pay any such Delinquent Taxes thereafter. The responsibility to pay all real estate taxes assessed against the Property remains with Optionor(s). The Optionee shall pay all charges for heat, water, gas, electricity, sewer use charges and any other utility used or consumed on the Leased Premises. 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 of the Optionee located on the Leased Premises.
- g. The Optionee may assign the lease. The Optionee may sublet all or part of the space on the tower or ground space. In the event that the Optionee sublets all or part of the space on the tower or ground space, the Optionee shall pay the Optionor(s) Twenty Percent (20%) of the annual gross rent collected from such sublessor(s), which amount shall be paid in monthly installments.

Site Name: Gravel Switch

- h. 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 Leased Premises subject to the terms and conditions set forth in the Lease.
 - i. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.
 - j. Optionee's Payment of Taxes, Fees and Assessments. Optionee shall pay directly to the applicable federal, state or local governmental unit or agency ("Governmental Entity") or to Optionor if Optionor is invoiced by such Governmental Entity, all taxes, fees, assessments or other charges assessed by any Governmental Entity directly against Optionee's Equipment and/or Optionee's use of the Facilities. Optionee shall also pay to Optionor Optionee's Pro Rata Share of all taxes, fees, assessments or charges including, but not limited to, personal property taxes attributable to Optionee's equipment and antenna(s), municipal franchise fees, use fees, municipal application fees, installation fees and increases thereof. "Pro Rata Share" shall mean the fraction of decimal equivalent of dividing one (1) by the total number of then existing users occupying a tower on the last day of the applicable calendar year.
18. 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.
19. 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 Leased

Site Name: Gravel Switch

Premises regardless of whether or not such property may be considered a fixture thereto.

20. Upon abandonment of the property, Optionee shall have thirty (30) days to dismantle and remove the Tower and any/all equipment located on Optionor's property.
21. Before any interest in Optionor(s)' interest in the Property or Lease, or any part thereof, whether separately or in connection with other property owned by the Optionor(s), is sold, assigned or transferred in any manner whatsoever (with or without consideration), the Optionee shall have a right of first refusal to acquire whatever interest in the Property or Lease that the Optionor(s) proposes to transfer (the "Proposed Transfer"), on the terms and conditions set forth in this Paragraph 21 (the "Right of First Refusal").
 - a. Optionor(s) shall deliver to the Optionee a written notice (the "Notice") stating (i) the name of the proposed purchaser or transferee and the material terms and conditions of the Proposed Transfer, together with a complete copy of any written offer made to the Optionor(s) to acquire any interest in the Property ("Offer").
 - b. At any time within thirty (30) days after receipt of the Notice, the Optionee may, by giving written notice to the Optionor (s) ("Optionee's Notice"), elect to exercise its Right of First Refusal and acquire the interest in the Property or Lease proposed to be transferred pursuant to the Proposed Transfer at the purchase price and on the same terms and conditions as are contained in the Offer. If the Offer includes consideration other than cash, the cash equivalent value of the non-cash consideration shall be determined

Site Name: Gravel Switch

by the Optionee in good faith. In the event, Optionee exercises its right to acquire the interest in the Property or Lease, the Optioner(s) shall convey, assign and/or transfer said interest to Optionee free and clear of all liens and encumbrances whatsoever (other than this Lease, which Lease shall remain in effect). All taxes, rents and other assessments applicable to the transferred interest, if any, shall be prorated to the date of closing. The Closing shall occur within thirty (30) days from the date of Optionee's Notice.

- c. If the Optionee declines to exercise its Right of First Refusal to acquire the interest in the Property or Lease proposed to be transferred, the Optioner(s) may sell or transfer same in accordance with the terms of the Offer subject, however, to this Lease and the Optionee's rights thereunder.

[Remainder of Page Intentionally Left Blank]

EXECUTION OF AGREEMENT(S)

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

**Kentucky RSA #4 Cellular General
Partnership**

Print Name: Allen Minor Harmon, Jr.

Sign: Allen Minor Harmon, Jr.

Date: 2-26-18

Print Name: Peggy H. Brown

Sign: Peggy H. Brown

Date: 2-28-18

("Optionor(s)")

Property Owner(s)

Sign: Doug Updegraff

Date: 2-28-18

("Optionee")

**By: Doug Updegraff
Authorized Representative**

STATE OF Kentucky
COUNTY OF Madison

The foregoing instrument was acknowledged before me this 26 day of February, 2018, by Allen Harmon to be his/her free act and deed.

[Signature]
NOTARY PUBLIC STATE AT LARGE

My commission expires: 1-21-21

STATE OF Kentucky
COUNTY OF Nelson

The foregoing instrument was acknowledged before me this 28 day of February, 2018, by Peggy Brown to be his/her free act and deed.

[Signature]
NOTARY PUBLIC STATE AT LARGE

My commission expires: July 28, 2019

STATE OF KENTUCKY
COUNTY OF HARDIN

The foregoing instrument was acknowledged before me this 28 day of February, 2018, by, Doug Updegraff as Authorized Representative on behalf of Kentucky RSA #4 Cellular General Partnership, to be his free act and deed.

[Signature]
NOTARY PUBLIC STATE AT LARGE

My commission expires: 1-21-21

This instrument prepared by:

[Signature]

John R. Rhorer, Jr.
DINSMORE & SHOHL LLP
250 West Main Street, Suite 1400
Lexington, KY 40507
(859) 425-1000

Site Name: Gravel Switch

EXHIBIT A

Revised: April 2017

SITE: GRAVEL SWITCH
Lease Boundary and Topographic Survey
Marion County, Kentucky

Basis of Bearings

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON APRIL 27, 2018 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORD NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

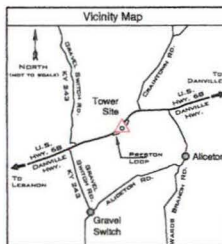
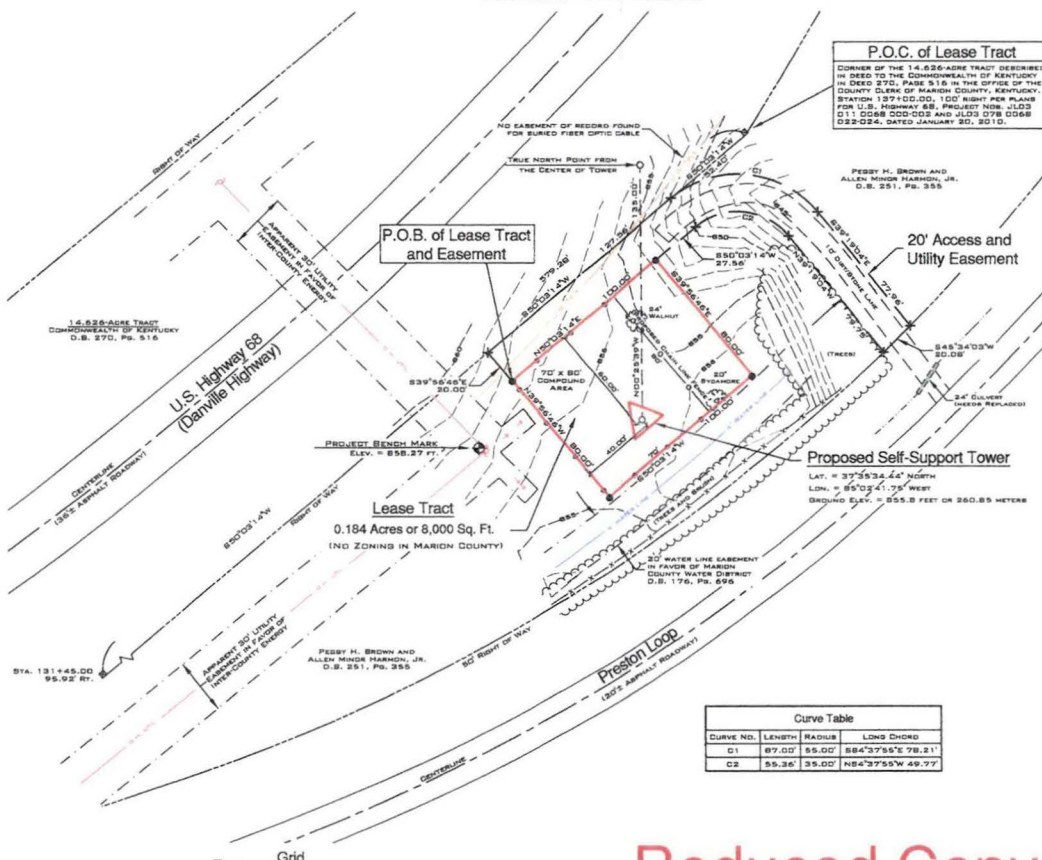
Tower Location Information	
DESIGNATION:	GRAVEL SWITCH
SITE ID#:	NONE
HORIZONTAL DATUM:	NAD 83 (12011)
LATITUDE:	37°35'34.44" NORTH
LONGITUDE:	88°12'41.78" WEST
VERTICAL DATUM:	NAVD 88
GROUND ELEVATION:	855.8 FEET (260.85 M)
STATE PLANE COORDINATES	
NORTHING:	3,099,776.87 FEET (944,013.270 M)
EASTING:	1,844,669.19 FEET (562,285.475 M)

Landowner Information
LANDOWNERS: ALLEN MINOR HARMON, JR. AND PEGGY H. BROWN
ADDRESS: 2732 CAKWOOD DRIVE BARGETOWN, KY 40004
CONTACT PERSON: ALLEN MINOR HARMON PHONE NUMBER: 502-510-0914
PVA MAP NUMBER: 101-010

Project Bench Mark	
NORTHING:	2,099.761 FEET (640,008 M)
EASTING:	1,844.616 FEET (562,240 M)
ELEVATION:	858.27 FEET (261.601 M)
DESCRIPTION: A RAILROAD SPIKE SET IN THE NORTHWEST SIDE OF A UTILITY POLE, 12" ABOVE GRADE, THAT IS 85 FEET WESTERLY OF THE CENTER OF THE TOWER.	

Flood Plain Statement

ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) FOR MARION COUNTY, KENTUCKY AND INCORPORATED AREAS, MAP NO. 2115500325C, DATED JANUARY 6, 2010, THE SUBJECT SITE LIES WITHIN "OTHER AREAS ZONE X". THIS ZONE IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".

[illegible]

CURVE NO.	LENGTH	RADIUS	LONG CHORD
C1	87.00'	55.00'	S84°37'55"E 78.21'
C2	55.36'	35.00'	N84°37'55"W 49.77'

Notes

1. ANY ENCUMBRANCES AND LANDOWNER INFORMATION SHOWN HEREON, REGARDING THE SUBJECT TRACT, ARE BASED UPON A TITLE SEARCH COMPLETED BY ABSTRACTS & TITLES, INC. OF LOUISVILLE, KENTUCKY, DATED MARCH 13, 2018. EXAM NO. 232492.

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

3. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAT WAS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL OF THE TOPOGRAPHIC FEATURES LOCATED AT THE SUBJECT SITE.

4. ACCORDING TO THE OFFICE OF MR. DAVID R. DAUSHERTY, MARION COUNTY JUDGE EXECUTIVE, NO LOCAL PLANNING UNIT EXISTS WHICH HAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 270-692-3451 FOR CONFIRMATION.

6. THE ROAD RIGHT OF WAY SHOWN HEREON WERE DETERMINED FROM PLANS PROVIDED BY THE KENTUCKY TRANSPORTATION CABINET - PROJECT NO. 78-22 DATED MAY 21, 1941 (PRESTON LODM) AND PROJECT NOB. JLD3 011 0008 000-002 AND JLD3 078 0068 022-024, DATED JANUARY 30,

Certification

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN COMPILED FROM A SURVEY ACTUALLY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON APRIL 27, 2015 BY THE METHOD OF REAL TIME KINEMATIC GPS SURVEY AND A RANDOM TRAVERSE WITH SIDESHOTS; THAT THE DIRECTIONS AND DISTANCES

SHOWN HEREON ARE BASED UPON AN ADJUSTED TRAVERSE; THAT THE RELATIVE POSITIONAL ACCURACY OF ANY POINT ON THIS SURVEY IS BETTER THAN ± 0.10 FEET + 200 PPM; AND THAT THIS PLAN REPRESENTS A RURAL BOUNDARY SURVEY AND COMPLES WITH THE REQUIREMENTS OF 201 KAR 18:150.

Darren L. Helms
DARREN L. HELMS, P.L.B. 3386

MAY 31, 2018

Legend

5/8" REBAR, 24" IN LENGTH, SET
FLUSH WITH SURVEY CAP INSCRIBED
"D.L. HELMS PLS 3386"

5/8" REBAR SET FLUSH - NO SURVEY CAP

6" SQUARE CONCRETE RIGHT OF WAY
MONUMENT FOUND EXPOSED 24"

CALCULATED LOCATION

LEASE BOUNDARIES

RIGHT OF WAY

NEW EASEMENT BOUNDARIES

EXISTING EASEMENT BOUNDARIES

UTILITY POLE

BUY AND/OR

UTILITY AS NOTED

WIRE FENCE

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

Certification

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN COMPILED FROM A SURVEY ACTUALLY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON APRIL 27, 2018 BY THE METHOD OF REAL TIME KINEMATIC (RTS) SURVEY AND A RURAL BOUNDARY SURVEY WITH SIDE SHOTS. THAT THE DIRECTIONS AND DISTANCES SHOWN HEREON ARE BASED UPON AN ADJUSTED TRAVERSE; THAT THE RESULTING ADDITIONAL ACCURACY OF ANY POINT ON THIS SURVEY IS BETTER THAN ± 0.10 FEET + 200 PPM; AND THAT THIS PLAN REPRESENTS A RURAL BOUNDARY SURVEY AND COMPLIES WITH THE REQUIREMENTS OF 201 KAR 101.02.

Darren L. Helms
DARREN L. HELMS, P.L.B. 3386

DATE MAY 31, 2018

LANDMARK SURVEYING CO., INC.



Lease Boundary Survey
149 Preston Loop
Gravel Switch, Kentucky 40328

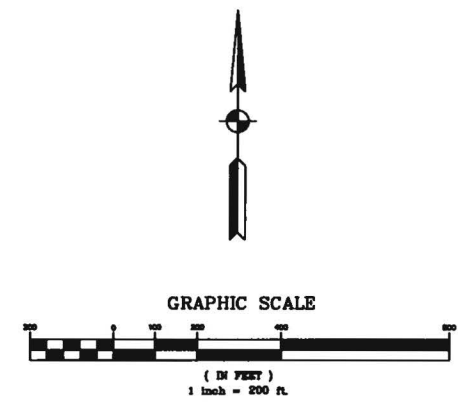
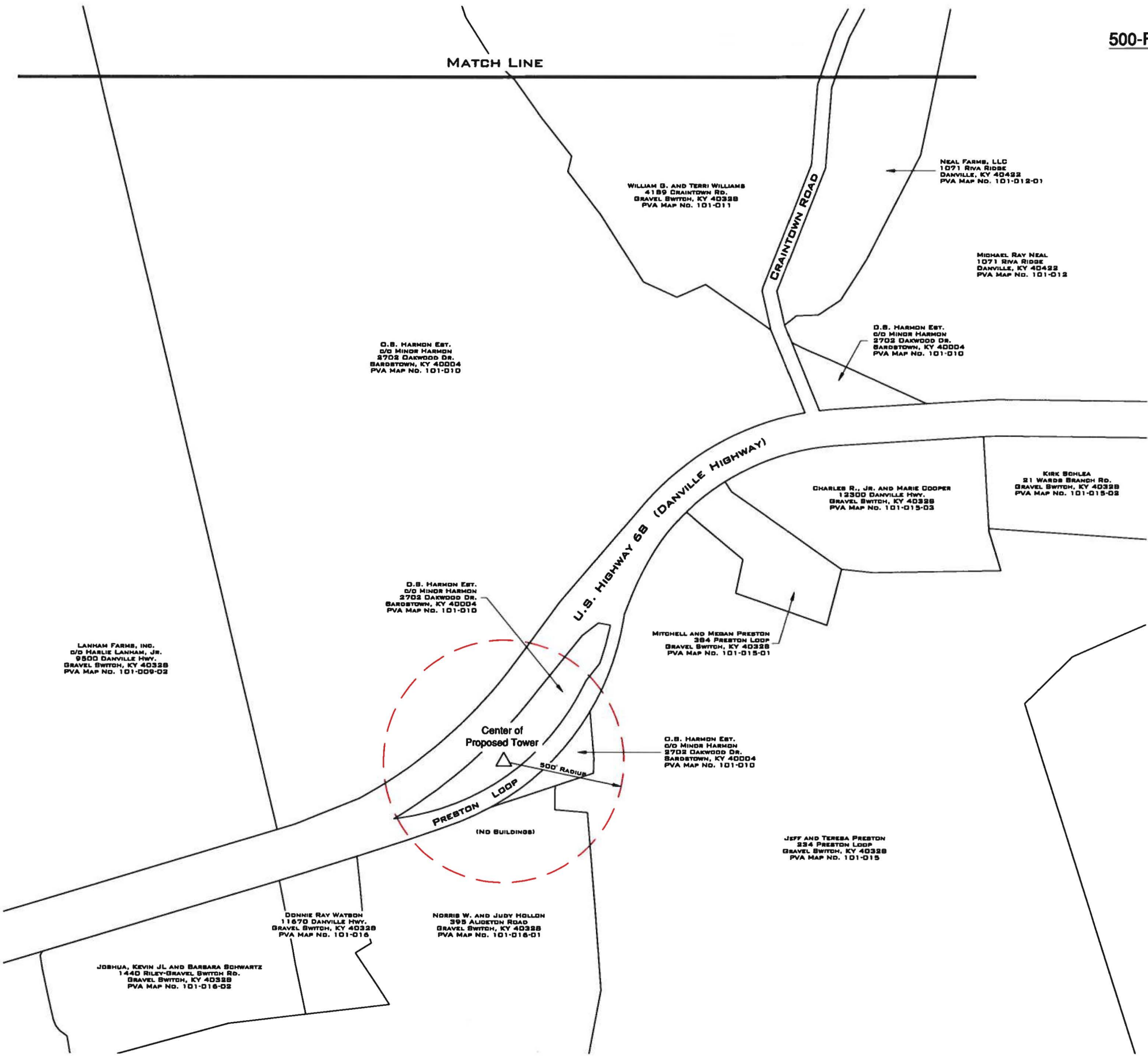
Bluegrass Cellular
2902 Ring Road
Elizabethtown, KY 42701

REVISIONS		DATE
DATE	DRAWN BY	CHECKED BY
May 31, 2016	J. Hamilton	D.L. Malone
SHEET No.		
1		
of 1 SHEETS		
FILE NAME		
gravel.dwg		

SITE: GRAVEL SWITCH

500-Foot Radius Map for Structures and Landowners

Marion County, Kentucky



Note
THE LOCATION OF THE BOUNDARIES SHOWN ARE APPROXIMATE, AND THEY ARE BASED UPON INFORMATION ON FILE IN THE OFFICE OF THE PROPERTY VALUATION ADMINISTRATOR AND COUNTY CLERK OF MARION COUNTY, KENTUCKY.

Surveyor's Certification
I HEREBY CERTIFY THAT THE INFORMATION SHOWN IS CORRECT TO THE BEST OF MY KNOWLEDGE; AND IT IS IN ACCORDANCE WITH THE RECORDS FOUND IN THE OFFICE OF THE PROPERTY VALUATION ADMINISTRATOR AND COUNTY CLERK OF MARION COUNTY, KENTUCKY ON APRIL 25, 2018.

Darren L. Helms
DARREN L. HELMS, P.L.S. 3386
MAY 31, 2018
DATE

STATE OF KENTUCKY
Darren L. Helms
3386
LICENSED PROFESSIONAL LAND SURVEYOR

LANDMARK SURVEYING CO., INC.

15 N.E. 3RD STREET
WASHINGTON, INDIANA 47501
(812) 257-0950
Website: landmarksurveying.com
Project No. 16-02-0118
© 2018

500-Foot Radius Map

149 Preston Loop

Gravel Switch, Kentucky 40328

Bluegrass Cellular

2902 Ring Road

Elizabethtown, KY 42701

REVISIONS	DATE

DATE	DRAWN BY	CHECKED BY
MAY 31, 2018	J. Helms	D. L. Helms

SHEET No.

1

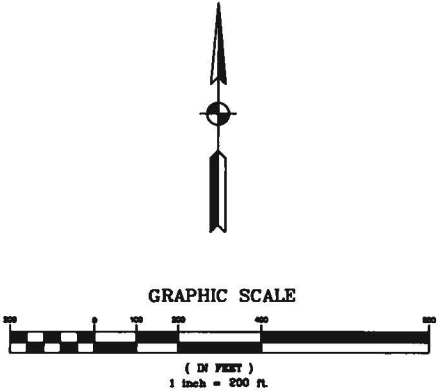
of 2 SHEETS

FILE NAME

gravel-radius.dwg



SITE: GRAVEL SWITCH
500-Foot Radius Map for Structures and Landowners
Marion County, Kentucky



Note
THE LOCATION OF THE BOUNDARIES SHOWN ARE APPROXIMATE,
AND THEY ARE BASED UPON INFORMATION ON FILE IN THE
OFFICE OF THE PROPERTY VALUATION ADMINISTRATOR AND
COUNTY CLERK OF MARION COUNTY, KENTUCKY.

Surveyor's Certification
I HEREBY CERTIFY THAT THE INFORMATION SHOWN IS CORRECT
TO THE BEST OF MY KNOWLEDGE; AND IT IS IN ACCORDANCE
WITH THE RECORDS FOUND IN THE OFFICE OF THE PROPERTY
VALUATION ADMINISTRATOR AND COUNTY CLERK OF MARION
COUNTY, KENTUCKY ON APRIL 26, 2018.

Darren L. Helms
DARREN L. HELMS, P.L.S. 3386
MAY 31, 2018
DATE

STATE OF KENTUCKY
Darren L. Helms
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

LANDMARK SURVEYING CO., INC.
15 N.E. 3RD STREET
WASHINGTON, INDIANA 47501
(812) 357-0030
Website: landmarksurvey.com
Project No. 18-05-0118
© 2018

500-Foot Radius Map
149 Preston Loop
Gravel Switch, Kentucky 40328

Bluegrass Cellular
2902 Ring Road
Elizabethtown, KY 42701

REVISIONS	DATE

DATE	DRAWN BY	CHECKED BY
MAY 31, 2018	J. Hamblen	D. L. Helms

SHEET No.
2
of 2 SHEETS

FILE NAME
gravel-radius.dwg

LANDMARK SURVEYING CO., INC.

15 N.E. 3RD STREET • WASHINGTON, INDIANA 47501

PHONE: 812.257.0950 • WEBSITE: WWW.LANDMARKSURVEYINGCO.COM

DARREN L. HELMS, P.S., PRESIDENT

DENNIS N. HELMS, P.S., CPESD, VICE-PRESIDENT



Landowner and Adjacent Landowner List

Gravel Switch Site

O.B. Harmon Est.
c/o Minor Harmon
2702 Oakwood Dr.
Bardstown, KY 40004

William G. and Terri Williams
4189 Craitown Rd.
Gravel Switch, KY 40328

Michael Ray Neal
1071 Riva Ridge
Danville, KY 40422

Neal Farms, LLC
1071 Riva Ridge
Danville, KY 40422

Kirk Schlea
21 Wards Branch Rd.
Gravel Switch, KY 40328

Joshua, Kevin JL and Barbara Schwartz
1440 Riley-Gravel Switch Rd.
Gravel Switch, KY 40328

Thomas W. and Donna C. Hundley
1308 Mitchellsburg Rd.
Danville, KY 40422

Lanham Farms, Inc.
c/o Harlie Lanham, Jr.
9500 Danville Hwy.
Gravel Switch, KY 40328

Edward Allen Heckel
144 W. Walnut St.
Lebanon, KY 40033

Charles R., Jr. and Mari Cooper
12300 Danville Hwy.
Gravel Switch, KY 40328

Mitchell and Megan Preston
384 Preston Loop
Gravel Switch, KY 40328

Jeff and Teresa Preston
234 Preston Loop
Gravel Switch, KY 40328

Norris W. and Judy Hollon
395 Aliceton Road
Gravel Switch, KY 40328

Donnie Ray Watson
11670 Danville Hwy.
Gravel Switch, KY 40328

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

MAY 31, 2018
Date



August 23, 2018.

O.B. Harmon Est.
c/o Minor Harmon
2702 Oakwood Drive
Bardstown, Kentucky 40004

Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 20 years.

Kentucky RSA #4 Cellular General Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 149 Preston Loop, Gravel Switch, Marion County, Kentucky, 40328. A map showing the location is attached.

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

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

Please refer to Case Number 2018-00178 in your correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ Complete items 1, 2, and 3.■ 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.	<p>A. Signature X <i>O.B. Harmon Est.</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Alan Minor Harmon Jr.</i> C. Date of Delivery <i>8-25-18</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to: <i>O.B. Harmon Est. c/o Minor Harmon 2702 Oakwood Drive Bardstown, KY 40004</i></p> <p>9590 9402 3017 7124 7079 75</p>	<p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

June 6, 2018

William g. and Terri Williams
4189 Craintown Road
Gravel Switch, Kentucky 40328

Public Notice

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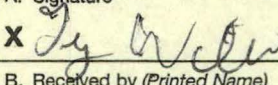
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	B. Received by (Printed Name) C. Date of Delivery 6-11-18
1. Article Addressed to: William G. & Terri Williams 4189 Craintown Road Gravel Switch, KY 40328	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label) 7015 1520 0000 8070 6943	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

PS Form 3811, July 2013 Domestic Return Receipt

June 6, 2018

Michael Ray Neal
1071 Riva Ridge
Danville, Kentucky 40422

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	B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to: <i>Michael Ray Neal 1071 Riva Ridge Danville, KY 40422</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
2. Article Number (Transfer from service label)	7015 1520 0000 8070 6950

PS Form 3811, July 2013 Domestic Return Receipt

June 6, 2018

Neal Farms, LLC
1071 Riva Ridge
Danville, Kentucky 40422

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	B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to: <i>Neal Farms, LLC 1071 Riva Ridge Danville, KY 40422</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
PS Form 3811, July 2013 Domestic Return Receipt	

June 6, 2018

Kirk Schlea
21 Wards Branch Road
Gravel Switch, Kentucky 40328

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Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Write your name and address on the reverse of this card to the back of the mailpiece, the front if space permits.	A. Signature <input checked="" type="checkbox"/> X <i>Kirk Schlea</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee
Addressed to: <i>K Schlea Wards Branch Rd. Gravel Switch, KY 40328</i>	B. Received by (Printed Name) <i>KS</i> C. Date of Delivery <i>6-9-18</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
2. Article Number (Transfer from service label)	7015 1520 0000 8070 6974

PS Form 3811, July 2013 Domestic Return Receipt

June 6, 2018

Joshua, Kevin JL and Barbara Schwartz
1440 Riley-Gravel Switch Road
Gravel Switch, Kentucky 40328

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	B. Received by (Printed Name) <i>Kevin Schwartz</i> C. Date of Delivery <i>6-9-18</i>
1. Article Addressed to: <i>Joshua, Kevin JL & Barbara Schwartz 1440 Riley-Gravel Switch Rd Gravel Switch, KY 40328</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

2015 1520 0000 8070 6981

June 6, 2018

Thomas W. and Donna C. Hundley
1308 Mitchellsburg Road
Danville, Kentucky 40422

Public Notice

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1. Article Addressed to: <i>Thomas W. & Donna C. Hundley 1308 Mitchellsburg Rd. Danville, KY 40422</i>		3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery	
2. Article Number (Transfer from service label)		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
		7015 1520 0000 8070 6998	

June 6, 2018

Lanham Farms, Inc.
c/o Harlie Lanham, Jr.
9500 Danville Highway
Gravel Switch, Kentucky 40328

Public Notice

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	B. Received by (Printed Name) <i>John Lanham</i>
	C. Date of Delivery <i>6-9-18</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
1. Article Addressed to: <i>Lanham Farms, Inc. c/o Harlie Lanham, Jr. 9500 Danville Hwy. Gravel Switch, KY 40328</i>	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
	7015 1520 0000 8070 7001

Edward Allen Heckel
144 West Walnut Street
Lebanon, Kentucky 40033

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<p>1. Article Addressed to: <i>Edward Allen Heckel 144 W. Walnut St. Lebanon, KY 40033</i></p> <p>9590 9402 3017 7124 7079 20</p>	<p>3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</p> <p><input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>
<p>2. Article Number (Transfer from service label) 7012 3460 0003 3948 4659</p>	
PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt

June 6, 2018

Charles R., Jr. and Mari Cooper
12300 Danville Highway
Gravel Switch, Kentucky 40328

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	B. Received by (Printed Name) Charles R., Jr. and Mari Cooper
	C. Date of Delivery 6-9-18
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
1. Article Addressed to: Charles R., Jr. & Mari Cooper 12300 Danville Hwy. Gravel Switch, KY 40328	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
2. Article Number (Transfer from service label) 7015 1520 0000 8070 7025	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

PS Form 3811, July 2013 Domestic Return Receipt

June 6, 2018

Mitchell and Megan Preston
384 Preston Loop
Gravel Switch, Kentucky 40328

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1. Article Addressed to: <i>Mitchell Mitchell & Megan Preston 384 Preston Loop Gravel Switch, KY 40328</i>	B. Received by (Printed Name) <i>Teresa Preston</i> C. Date of Delivery <i>6/9/18</i>
2. Article Number (Transfer from service label) <i>7015 1520 0000 8070 7032</i>	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

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June 6, 2018

Jeff and Teresa Preston
234 Preston Loop
Gravel Switch, Kentucky 40328

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ 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.	A. Signature X <i>Teresa Preston</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee
	B. Received by (Printed Name) <i>Teresa Preston</i> C. Date of Delivery <i>6/8/18</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
1. Article Addressed to: <i>Jeff + Teresa Preston 234 Preston Loop Gravel Switch, KY 40328</i>	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
	7015 1520 0000 8070 7049

PS Form 3811, July 2013 Domestic Return Receipt

June 6, 2018

Norris W. and Judy Hollon
395 Aliceton Road
Gravel Switch, Kentucky 40328

Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 20 years.

Kentucky RSA #4 Cellular General Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 149 Preston Loop, Gravel Switch, Marion County, Kentucky, 40328. A map showing the location is attached.

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

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

Please refer to Case Number 2018-00178 in your correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ 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.	A. Signature X <i>Norris W. Hollon</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee
1. Article Addressed to: <i>Norris W. & Judy Hollon 395 Aliceton Rd. Gravel Switch, KY 40328</i>	B. Received by (Printed Name) <i>Norris W. Hollon</i> C. Date of Delivery <i>6-8-18</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No
	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
2. Article Number (Transfer from service label)	<i>7015 1520 0000 8070 7056</i>

PS Form 3811, July 2013 Domestic Return Receipt

June 6, 2018

Donnie Ray Watson
11670 Danville Highway
Gravel Switch, Kentucky 40328

Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 20 years.

Kentucky RSA #4 Cellular General Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 149 Preston Loop, Gravel Switch, Marion County, Kentucky, 40328. A map showing the location is attached.

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

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

Please refer to Case Number 2018-00178 in your correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ 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.	A. Signature <input checked="" type="checkbox"/> <i>Donnie Watson</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee
	B. Received by (Printed Name) C. Date of Delivery <i>DONNIE WATSON</i> <i>6-11-18</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
1. Article Addressed to: <i>Donnie Ray Watson 11670 Danville Hwy Gravel Switch, KY 40328</i>	3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
PS Form 3811, July 2013	Domestic Return Receipt

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

June 6, 2018

Via Certified Mail

Honorable David R. Daugherty
Marion County Judge Executive
223 North Spalding Avenue, # 201
Lebanon, Kentucky 40033

Re: Application of Kentucky RSA #4 Cellular General Partnership d/b/a Bluegrass Cellular for a Certificate of Public Convenience and Necessity to construct a new cellular facility to be located at 149 Preston Loop, Gravel Switch, Marion County, Kentucky, 40328, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2018-00178

Judge Daugherty:

Kentucky RSA #4 Cellular General Partnership is applying to the Public Service Commission of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 149 Preston Loop, Gravel Switch, Marion County, Kentucky, 42718. 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 No. 2018-001787 in your correspondence.

Very Truly Yours,

DINSMORE & SHOHL LLP


Kerry W. Ingle
Paralegal

Enclosure

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

David R. Daugherty
Marion County Judge Exec.
223 N. Spalding Avenue
#201
Lebanon, KY 40033

2. Article Number

(Transfer from service label)

7015 1520 0000 8070 7070

PS Form 3811, July 2013

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Chelsea Craig

- ☐
- Agent
-
- ☐
- Addressee

B. Received by (Printed Name)

Chelsea Craig

C. Date of Delivery

6/11/16

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

3. Service Type

- ☒ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee)

- ☐
- Yes

Domestic Return Receipt





PUBLIC NOTICE

Kentucky RSA #4 Cellular
General Partnership proposes
to construct a cellular
communications

TOWER

on this site. If you have any
questions please contact:

Kentucky RSA #4 Cellular
General Partnership
P.O. Box 5872
2982 Hwy Road
Elizabethtown, NY 42701

or
Executive Director
The Public Service Commission
211 Senior Boulevard
P.O. Box 876
Frankfort, KY 40602

Please refer to P.S.C.
Case #2018-00178
in your correspondence.



PUBLIC NOTICE

Kentucky MTA #1 Cellular
Space Partnership proposes
to construct a cellular
communications

TOWER

near this site. If you have any
questions, please contact:

Shirley A. Smith	Shirley A. Smith
Shirley A. Smith	Shirley A. Smith
Shirley A. Smith	Shirley A. Smith
Shirley A. Smith	Shirley A. Smith
Shirley A. Smith	Shirley A. Smith

Please refer to P.S.C.
Case #2018-00178
in your correspondence.

PUBLIC NOTICE

Kentucky RSA #4 Cellular
General Partnership proposes
to construct a cellular
communications

TOWER

near this site. If you have any
questions please contact:

Kentucky RSA #4 Cellular
General Partnership
P.O. Box 5012
2982 Ring Road
Elizabethtown, KY 42701

or

Executive Director,
The Public Service Commission
211 Sower Boulevard
P.O. Box 815
Frankfort, KY 40602

Please refer to P.S.C.
Case #2018-00178
in your correspondence.

The Lebanon Enterprise

119 S. Proctor Knott Ave. • Lebanon, KY 40033

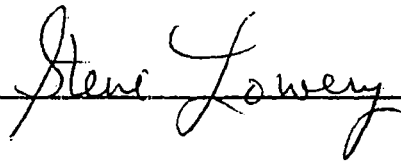
Phone: (270) 692-6026 • FAX: (270) 692-2118

Advertising/Bookkeeping: enugent@lebanonenterprise.com

AFFIDAVIT OF PUBLICATION

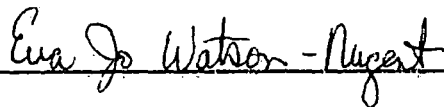
The following affidavit is to be executed by an officer of the newspaper attesting publication of legal advertisements as required under an Act of Kentucky Legislature of 1958.

Stevie Lowery of Lebanon, Kentucky, being first duly sworn, says that *she* is *Publisher* of The Lebanon Enterprise, a newspaper published in the State of Kentucky, County of Marion, and having general circulation in the County of Marion, and that the advertisement of which the annexed is a true copy has been published in said newspaper on the following dates June 6 and 13, 2018.



Stevie Lowery

Subscribed and sworn to before me, a Notary Public within and for the State and County aforesaid, by Stevie Lowery to me personally known, this 13th day of June 2018. My commission expires the 11th day of February, 2021.



Eva Jo Watson-Nugent
Notary Public, State At Large 570155

CLASSIFIEDS

130 Real Estate
Sales300 Public
Notice300 Public
Notice300 Public
Notice300 Public
Notice300 Public
Notice300 Public
Notice300 Public
NoticePUBLISHER'S
NOTICE

All real estate advertised on the website or in our newspaper is subject to the Federal Fair Housing Act of 1968 which makes it illegal to advertise any preference, limitation or discrimination based on race, color, religion, sex or national origin, handicap, families with children, or on intention to make any such preference, limitation or discrimination. This website and our newspaper will not knowingly accept any advertising for real estate which is in violation of the law. Our readers are hereby informed that all dwellings advertised in this newspaper are available on an equal opportunity basis. To complain of discrimination, call HUD toll free at 1-800-669-7777. The toll free telephone number for the hearing impaired is 1-800-927-9275. Equal Housing Opportunity.

195 Items
Wanted

BECOME A PUBLISHED AUTHOR! Publications sold at all major secular & specialty Christian book stores. CALL Christian Faith Publishing for your FREE author submission kit. 1-877-422-8856

FREON R12 WANTED: CERTIFIED BUYER will PAY CASH for R12 cylinders and cases of cans. (312) 201-9169; refgarefinders.com

200 Situations
Wanted

INVENTORS - FREE INFORMATION PACKAGE Have your product idea developed effectively by the Research & Development pros and presented to manufacturers. Call 1-844-860-3282 for a Free Idea Starter Guide. Submit your idea for a free consultation.

WE'RE YOU AN INDUSTRIAL OR CONSTRUCTION TRADESMAN and recently diagnosed with LUNG CANCER? You and your family may be entitled to a SIGNIFICANT CASH AWARD. Call 1-888-539-6806 for your risk-free consultation.

ORDINANCE NO. 2018-06

AN ORDINANCE REMOVING THREE (3) DESIGNATED PARKING SPACES IN CERTAIN LOCATIONS ALONG THE CENTER PARKING AISLE OF WEST MARTIN LUTHER KING AVENUE WITHIN THE CITY OF LEBANON, KENTUCKY.

WHEREAS, the City of Lebanon has been presented with a request to remove three (3) specified parking spaces in the West Martin Luther King Avenue area of the City of Lebanon, specifically in the consolidated center parking aisle directly in front of the driveway to Steyer Seeds Company's business establishment located at 229 Martin Luther King Avenue; and

WHEREAS, the City Council of the City of Lebanon has considered the traffic safety issues for ingress and egress of the larger trucks frequently used by Steyer Seeds Company in relation to the parking of cars in the center parking aisle space nearest the Steyer Seeds Company's driveway and has determined that removal of the nearest parking spots would be beneficial to the City;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LEBANON, KENTUCKY:

SECTION 1: That three (3) contiguous parking spaces currently designated as public parking in the center parking aisle of the divided street section of West Martin Luther King Avenue shall be hereby designated and marked as "No Parking", said spaces being located nearest the front entrance of Steyer Seeds Company starting approximately 174 feet from the intersection of Martin Luther King Avenue and North Depot Street, and continuing for approximately 40 feet to a point approximately 440 feet from the intersection of West Martin Luther King Avenue and North Proctor Knott Avenue, as roughly depicted on the attached map.

SECTION 2: That the City Clerk and/or other City official are hereby authorized and directed to take such action as shall be necessary in order to amend the City map, post "NO PARKING" and/or other required signs, and such other action as may be necessary and desirable as a result of the removal of the three (3) specified parking spaces and the new designation of the said spaces as "No Parking".

SECTION 3: All Ordinances or parts of Ordinances in conflict herewith are expressly repealed, but only to the extent of such conflict.

SECTION 4: If any section, subsection, sentence, clause, phrase or portion of the Ordinance is for any reason held invalid or unconstitutional by any Court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remaining portions hereof.

SECTION 5: This Ordinance shall become effective upon its second reading, passage and publication.

CITY OF LEBANON, KENTUCKY
By: Gary D. Cranehart, Mayor

ATTEST: Gina N. Wheatley, City Clerk

PUBLIC NOTICE FOR BIDS
ON AMBULANCE REMOUNT

Marion County Fiscal Court will receive sealed bids for an AMBULANCE REMOUNT. Bid specifications are available at the Marion County Judge/Executive's office at 223 N. Spalding Ave., Suite 201, Lebanon, KY 40033. Bids must be sealed and will be received until July 5, 2018 at 4:00 p.m. at which time they will be opened during the Marion County Fiscal Court meeting. The county will consider any and all proposals and reserves the right to accept or reject any and/or all bids.

David Daugherty
Marion County Judge/Executive

Marion County has been awarded federal funds made available through the Department of Homeland Security (DHS) Federal Emergency Management Agency Under the Emergency Food and Shelter National Board Program. Marion County has been chosen to receive \$132,700 to supplement emergency food and temporary lodging programs in the area.

The selection was made by a National Board that is chaired by the U. S. Department of Homeland Security's Federal Emergency Management Agency and consists of representatives from American Red Cross, Catholic Charities, USA, National Council of the Churches of Christ in the USA, The Jewish Federations of North America, The Salvation Army, and United Way Worldwide. The Local Board was charged to distribute funds appropriated by Congress to help expand the capacity of food and shelter programs in high-need areas around the country. A Local Board made up of (County Judge Executive's office, the Ministerial Association, the American Red Cross, the low income groups, other interested parties) will determine how the funds awarded to (Marion County) are to be distributed among the emergency food and shelter programs run by local service agencies in the area. The Local Board is responsible for recommending agencies to receive these funds and any additional funds made available under this phase of the program.

Under the terms of the grant from the National Board, local agencies chosen to receive funds must:

- 1) be private voluntary non-profits or units of government,
- 2) be eligible to receive Federal funds,
- 3) have an accounting system,
- 4) practice nondiscrimination,
- 5) have demonstrated the capability to deliver emergency food and/or shelter programs, and
- 6) if they are a private voluntary organization, have a voluntary board. Qualifying agencies are urged to apply.

Marion County has distributed Emergency Food and Shelter funds previously with Central Kentucky Community Action Council, Inc. Public or private voluntary agencies interested in applying for Emergency Food and Shelter Program funds must contact Jessica MacFarlane at Marion County Community Action at 270-692-6411 for an application. The deadline for applications to be received is June 28, 2018 by 4:00 p.m. The Local Board meeting has been scheduled for June 29, 2018 at 11:00 a.m. at Central Kentucky Community Action, 332 Hood Ave., Lebanon KY 40033. Further information on the program may be obtained by contacting Jessica MacFarlane. The phone number is 270-692-6411.

NOTICE

Kentucky RSA #4 Civil Service Partnership 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 #4 of the Commonwealth of Kentucky (Green Switch Call Site). The facility is a 240 tower and an equipment shelter to be located at 149 Preston Loop, Green Switch, Marion County, Kentucky 40033. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 212 Lower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2018-00178 in your correspondence.

PUBLIC NOTICE

Farmers National Bank will be accepting written, sealed bids on a 2002 Chevrolet Silverado 2500HD. Features: Extended Cab LT 4WD 186,253 miles. Truck can be viewed at the Bank's branch location: 2160 Campbellville Hwy, Lebanon KY. Bids will be accepted through July 2nd, 2018 4:00 PM. For bidding information please contact the Loan Department. 270-692-3177.

**SELL IT FAST
IN THE CLASSIFIEDS**

**ADVERTISE
1-866-692-4237**

ADVERTISEMENT FOR BIDS

Sealed bids for "Water Quality Monitoring Equipment" for the Lebanon Water Works Co., Lebanon, Kentucky, will be received at the District's office located at 120 South Proctor Knott Avenue, Lebanon, Kentucky 40033 until 1:00 p.m., Local Time, Thursday July 12, 2018 and then publicly opened and read aloud.

The program of work for which bids are to be submitted consists of the purchase and installation of water monitoring equipment including all related appearances as described in the Specifications.

The Contract Time allotted for the completion of the Contract is Sixty (60) consecutive calendar days.

The Work for this Project is located in Marion County, Kentucky. Drawings, Specifications and Contract Documents may be obtained and/or examined at:

KENTUCKY ENGINEERING GROUP, PLLC, 181 N. Locust Street, Versailles, Kentucky 40383. Jim Thompson, PE. Phone: (502) 351-9845.

LEBANON WATER WORKS COMPANY, INC., 120 South Proctor Knott Avenue, Lebanon, Kentucky 40033. Darin Thompson. Phone: (270) 692-2491.

All bids must be made on the required Bid Form and must be fully completed and executed with original signatures and corporate seals.

No Bidder may withdraw his Bid within ninety (90) days after the actual date of bid opening.

Bidders on this work will be required to comply with the Consolidated Appropriations Act, 2014 (P.L. 347) Division G, Title IV "Use of American Iron and Steel".

Bidders on this work will be required to comply with Title VI of the Civil Rights Act of 1964, the Anti-Kickback Act, and the Contract Work Hours Standard Act.

Bidders must comply with the President's Executive Orders No. 11246 and No. 11375 and any amendments or supplements to those Executive Orders.

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed under the contract, Section 3, Supervised Facility, Section 108 and E.O. 11246.

Bidders must certify they do not and will not maintain or provide for their employees any facilities that are segregated or based on race, color, creed, or national origin.

Bidders must comply with 41 CFR 60-4 in regard to affirmative action and to insure equal opportunity for females and minorities, and all that is applicable.

Minorities and small businesses are encouraged to submit bids on this project.

Lebanon Water Works Company, Inc. reserves the right to waive any bidding informalities and to reject any or all bids, for any reason. The right is reserved by the District, in the exercise of its sole judgment to reject any or all bids, and to re-advertise and award the Contract in the regular manner or to waive any informalities, irregularities, mistakes, errors, or omissions in any bid received and to accept any bid deemed to be responsive to its invitation and favorable to interests of the Owner.

The sealed bid for this project shall be clearly marked on the outside of the envelope "Sealed Bid for Water Quality Monitoring Equipment" for the Lebanon Water Works Company, Inc. The bid may be marked by Lebanon Water Works Company, Inc., 120 South Proctor Knott Avenue, Lebanon, Kentucky 40033.

Lebanon Water Works Co.
J.R. Moraga, Sr., President
Date: June 18, 2017

The Lebanon Enterprise
SERVICE GUIDE

**WHITEHOUSE
SEAL COATING**

- Broom or Spray Applied
- Driveways & Parking Lots
- Striping, Crack Filling & Repair
- Look us up on Facebook

Owner
Brian Whitehouse
659-325-5716

**Water Dogs
PLUMBING**

If water runs through it, we fix it!
No Job is Too Big or Small

- Hot Water for Repairs, Installation
- Drain Cleaning
- Sewer/Septic Tank Installation
- Water Heater Installation
- Hot Water Circulation
- Water Softener & Filter

774-462-5365/959-486-0653

**PHIL'S
PAINTING
SERVICE, LLC**

Interior & Exterior
Commercial
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Residential

270-692-8857
Day or Night

RENT THIS SPACE
8 Weeks In The Lebanon Enterprise & Twin Co. Advantage

for only \$3480 per week
Contact Dave or Eva Jo at 270-692-6826 to place your ad.

STUMP GRINDING - MIXED HARDWOOD AVAILABLE
Free Estimates - Fully Insured
LEE TREE BRANDON
270-572-7125
Locally Owned & Operated

**Flanagan's
TV & Appliance**
Sales, Service and Mattress Sets
127 S. Spalding Ave. • Lebanon, KY 40033
270-692-9664

Call 270-692-6026 to place your service guide ad

Custom Poultry Processing
LILLY VIEW FARM
Brady's Sewer & Drain Cleaning Service
Residential & Commercial
Plumbing Repair of all Types
(270) 692-1726 or 692-9368
By Appointment Only
270-381-0033

COOKSEY REPAIR AND PARTS, LLC
859-805-1582 and 859-805-1916
Selling WORLD LAWN ZERO TURN MOWERS, TRACTOR MOWERS and products with
KOHLER and KAWASAKI ENGINE WORLD LAWN FARM EQUIPMENT REPAIR AND PARTS

RENT THIS SPACE
8 Weeks In The Lebanon Enterprise & Twin Co. Advantage
for only \$1790 per week
Contact Dave or Eva Jo at 270-692-6826 to place your ad.

RENT THIS SPACE
8 Weeks In The Lebanon Enterprise & Twin Co. Advantage
for only \$1790 per week
Contact Dave or Eva Jo at 270-692-6826 to place your ad.

DISTINGUISHED
Young Women

Parents, Grandparents, Aunts, Uncles, Brothers, Sisters, Friends, etc. send out your best wishes to the

**Distinguished
Young Women Participants.**
We have shown two suggested sizes but larger sizes are available.

Compose your message, submit photo, and choose the size ad you want.

Bring along with payment to:
**The Lebanon
Enterprise**
119 S. Proctor Knott Ave.,
Lebanon, KY 40033



Good Luck to #9
Claire Higdon
We are so proud of you. Continue to keep your wagon hitched to your dreams.

**SAMPLE
2 col. x 4"
(3.22" x 4")
\$65**

**ABSOLUTE
DEADLINE IS:
JULY 13, 2018
@ 4 p.m.**

Ad price good through July 13, @ 4 p.m.

**SAMPLE
3 col. x 4"
(4.89" x 4")
\$80**

With love that knows no limit
Mamaw and Papaw Tharp

**ALL ADS WILL BE PUBLISHED IN THE AUG. 1ST ISSUE.
After deadline, prices will increase by \$15. NO EXCEPTIONS.**

CLASSIFIEDS

300 Public Notice 300 Public Notice 300 Public Notice 300 Public Notice 300 Public Notice 300 Public Notice 300 Public Notice 300 Public Notice

PUBLIC NOTICE FOR SURPLUS ITEMS
Marion County Fiscal Court will be accepting sealed bids on a 2003 FORD CROWN VIC, A 2005 DODGE CHARGER AND A 1999 CHEVROLET TAHOE. All items will be sold as is. All items can be viewed by any interested party at the Marion County Road Department located at 1035 Highway 208, Lebanon, KY, between the hours of 7:00am to 3:30pm. Bids must be sealed and will be received until June 21, 2018 at 4:00 p.m. at the Marion County Judge/Executive's office located at 222 N. Spaulding Avenue, Room 201, Lebanon, KY 40033 at which time they will be opened during the Marion County Fiscal Court meeting. The county will consider any and/or all bids and has the right to reject any and/or all bids.
David Daugherty
Marion County Judge/Executive

PUBLIC NOTICE FOR ROAD BIDS
Marion County Fiscal Court will receive sealed bids for resurfacing Arbutus Road, Treva Creek Road, Lick Run Road, Lower's Lane, Todd Mattingly Road, Country View Estates Road, Smith Avenue, Moores Creek Road, Head Dettlery Road and Paul Shewmaker Road. Bid specifications are available at the Marion County Judge/Executive's office at 222 N. Spaulding Ave., Suite 201, Lebanon, KY 40033. Bids must be sealed and will be received until June 21, 2018 at 4:00 p.m. at which time they will be opened during the Marion County Fiscal Court meeting. The county will consider any and/or all proposals and reserves the right to accept or reject any and/or all bids.
David Daugherty
Marion County Judge/Executive

NOTICE
Kentucky RSA #4 Cellular General Partnership 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 areas #4 of the Commonwealth of Kentucky (Grevel Switch Cell Site). The facility is a 240 tower and an equipment shelter to be located at 149 Preston Loop, Grevel Switch, Marion County, Kentucky, 40338. 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 40622. Please refer to Case No. 2018-00178 in your correspondence.
David Daugherty
Marion County Judge/Executive

PUBLIC HEARING NOTICE
To all interested citizens of the City of Bradenton, Kentucky.
The Kentucky Department for Local Government is accepting application materials under the 2018 Community Development Block Grant (CDBG) Program. The City of Bradenton intends to apply for assistance to improve public sewer infrastructure by repairing infiltration and inflow in the collection system and upgrading retention and headworks in the treatment facility. The City of Bradenton will hold a public hearing prior to the submission of the pre-application form. The public hearing will be held on Thursday, June 21, 2018 at 6:00PM EDT at the Bradenton City Hall. The purpose of the hearing is to obtain views on housing and community development needs, review proposed activities, review the proposed application, and solicit public comments. Technical assistance is available to help groups representing low and moderate income persons in developing proposals. The following information concerning the CDBG program is available for public inspection at the Bradenton City Hall, 202 West Main St., Bradenton, KY 40009, during regular business hours:
A. Amount of funds available and range of activities that may be undertaken.
B. Estimated amounts of funds proposed to be used for activities benefiting persons of low and moderate income.
C. Plans for minimizing displacement of persons as a result of activities associated with CDBG funds and plans for providing assistance to those persons to be actually displaced as a result of CDBG-funded activities.
D. Records regarding the past use of CDBG funds.
E. A summary of other important program requirements.
Comments on Application
A copy of the CDBG application material will be on file at City Hall for citizens' review and comment during regular business hours from June 13, 2018 through June 21, 2018. Comments on the proposed application may be submitted to the attention of Mayor David Edelen until the close of business on June 21, 2018.
Dissemination Clause
The City of Bradenton does not discriminate on the basis of race, color, national origin, sex, age, religion or disability, and provides, upon request, reasonable accommodation, including auxiliary aids and services, to afford an individual with a disability an equal opportunity to participate in all services, programs and activities. Any persons requiring special needs assistance should contact City Clerk, Wendy Marston at 270-337-2065 at least three days prior to the meeting. The TDD number for the hearing impaired is 1-800-648-6027 or for TTY 711.

ADVERTISEMENT FOR BID

BIDS TO BE RECEIVED:
June 29, 2018 at 2:00 P.M. Local Time
Sealed Bids will be received by the Marion-Washington County Airport Board at the Lebanon-Springfield Airport Terminal, 650 Airport Lane, Springfield, KY 40069 until 2:00 P.M. Local Time on Friday, June 29, 2018 and opened publicly at the same address listed above at that hour.
Bids which are delivered in advance by any means shall be delivered to: Marion-Washington County Airport Board, 650 Airport Lane, Springfield, KY 40069; Attention: Mr. Steve Dymon, Chairman.
The bid package shall be clearly labeled:
Bid for The RMA Improvements to Runway 20 End Project - Lebanon-Springfield Airport. DO NOT OPEN.
A NON-MANDATORY pre-bid conference has been scheduled for 2:00 P.M. Local Time, Friday, June 22, 2018 at the Lebanon-Springfield Airport Terminal Building for discussing the scope of the project and answering questions.
ATTENDANCE AT THIS CONFERENCE BY AN APPROPRIATE CONTRACTOR REPRESENTATIVE IS HIGHLY RECOMMENDED BUT NOT MANDATORY IN ORDER TO BE ELIGIBLE TO SUBMIT A BID.
Project Description: The project consists of the grading modifications of the runway safety area and on-site borrow area. Other work items include necessary erosion control and seeding & mulching stabilization.
Contract documents must be obtained from POC Consultants, LLC, 133 Holley Court, Suite 100, Franklin, TN 37067; telephone (615) 874-0251, at a non-refundable cost of \$150.00 per set.
It is the intent to make the plans and specifications available for review at the locations listed below:
Lebanon-Springfield Airport, 650 Airport Lane, Springfield, KY 40069 (606) 358-3818
POC Consultants, LLC, 133 Holley Court, Suite 100, Franklin, TN 37067 (615) 874-0251
City - Department of Aviation, 90 Airport Road, Building 400, Franklin, KY 40001 (502) 564-4480
The Marion-Washington County Airport Board, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 20000 to 20000-4 and Title 49, Code of Federal Regulations, Department of Transportation Subtitle A, Office of the Secretary, Part 21, Non-Discrimination in Federally-Assisted Programs of the Department of Transportation issued pursuant to 49 U.S.C. 10601, hereby notifies all bidders that such bidder must affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, handicap, or national origin in consideration of an award.
A Disadvantaged Business Enterprise (DBE) goal of 10.29% is established for this project.
Each proposal must be accompanied by a Bidder's Bond on the form contained in the Proposal Book from a surety company acceptable to the Marion-Washington County Airport Board or a cashier's check or certified check made payable to the Marion-Washington County Airport Board for not less than five percent (5%) of the total amount of the bid. A 100% Contract Bond will be required of the successful Contractor.
No bids will be considered unless the bidder, whether resident or non-resident of Kentucky, is properly qualified to submit a proposal for this construction in accordance with all applicable laws of the Commonwealth of Kentucky.
Liquidated damages, for delay in contract completion, shall be as stated in the Proposal.
No bids will be considered unless the bidder, whether resident or non-resident of Kentucky, is properly qualified to submit a proposal for this construction in accordance with all applicable laws of the Commonwealth of Kentucky. The proposal, which shall be enclosed in a sealed envelope, shall be clearly labeled on the outside of the envelope with the name of the project, contractor's name and address, and the date and time of the Bid Opening (so as to guard against premature opening of any bid). Failure to show these items on the outside of the envelope will result in the bid being returned to the Bidder unopened.
Withdrawal of Bid: Any Bidder, upon his or her authorized representative's written request, will be given permission to withdraw his proposal not later than the time set for opening thereof. At the time of opening of proposals, provided written request has been submitted prior to the time of the opening, when such proposal is received it will be returned to the Bidder unopened. Unless contrary to the laws of the Commonwealth of Kentucky, no Bidder may withdraw a bid submitted for a period of ninety (90) days after actual bid opening without Owner's consent.
Award will be made to the lowest responsible qualified Bidder, if awarded.
THE MARION-WASHINGTON COUNTY AIRPORT BOARD, RESERVES THE RIGHT TO REJECT ANY AND/OR ALL PROPOSALS, TO WAIVE ANY FORMALITIES AND INFORMALITIES IN THE PROPOSALS RECEIVED, AND TO ACCEPT ANY PROPOSAL WHICH IN ITS OPINION MAY BE IN THE BEST INTEREST OF THE MARION-WASHINGTON COUNTY AIRPORT BOARD.
Marion-Washington County Airport Board
Steve Dymon
Chairman

Open Sites

Marion County Public Schools is participating in the Summer Food Service Program. Meals will be provided to all children without charge and are the same for all children regardless of race, color, national origin, sex, age or disability, and there will be no discrimination in the course of the meal service. Meals will be provided, at a first come, first serve basis, at the sites and times as follows:

Location	Program Dates	Serving Times
Central Baptist Church	June 11-16	6:30-8 PM
CES	June 5-7	9:30-12:12:30
CES	June 10-12	9:30-12:12:30
CES	July 30-8/2	11:00-11:45
CES	June 11-15	11:00-11:45
Dream Bus - Bradfordsville Community Center	Wednesday	12:45-1:45
Dream Bus - Brookhaven	Mondays	11:12-15
Dream Bus - City Park	Tuesdays	12:45-1:45
Dream Bus - Cleaver Court	Tuesdays	12:45-1:45
Dream Bus - Hamilton Heights/Hardin Place	Thursdays	11:12-15
Dream Bus - Maple Street Apartments	Friday	12:45-1:45
Dream Bus - Martin Co. Public Library	Friday	11:12-15
Dream Bus - Raywick Park	Thursday	12:45-1:45
Dream Bus - Rosemead Village	Wednesday	11:12-15
Dream Bus - Village Loop Apartments	Tuesdays	11:12-15
Extension Office	June 6, 7, 13, 20, 25 & 27	11:12-15
First Baptist Church	7/8	11:30-12:00 3:00-3:30
GES	June 12-14	9:30-12:12:30
GES	June 25-27	12:30-1:00
Hood Ave	June 4, July 13	11:00-11:30
Lebanon Baptists Church	June 18-22	5:30-6:00
Lebanon Christian Church	June 25-27	6:15-7:45
LES	June 4, Aug 3	8:45-9:00 10:30-12:30
GES	June 5-7 6/12-14	11:00-11:30
MCATC	June 11-13	11:00-11:30
MCBS	June 4-21 7/10-31	11:30-12:00
Mudraugh Hill Baptist Church	June 10-15	6:15-7:45
MM	June 12-15	12:00-12:30
St. A	June 11-13 and 18-21	8:45-9:00 11:30-12:00
WMES	July 31-8/2	11:30-12:00
WMES	June 4-8 6/11-6/13	11:30-12:00

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, sex, disability, age, or reprisal or retaliation for prior civil rights activity in any program or activity conducted or funded by USDA.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the Agency (State or local) where they applied for benefits. Individuals who are deaf, hard of hearing or have speech disabilities may request USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program complaint of discrimination, complete the USDA Program Discrimination Complaint Form (AD-302), found online at http://www.asc.usda.gov/complaint_filing_cust.html and at any USDA office, or write a letter addressed to USDA and provide the name and title of the individual requested in the form. To request a copy of the complaint form, call (866) 632-9992.

Submit your completed form or letter to USDA by:
(1) Mail: U.S. Department of Agriculture
Office of the Assistant Secretary for Civil Rights
1400 Independence Avenue, SW
Washington, D.C. 20250-9410;
(2) Fax: (202) 690-7442; or
(3) Email: program.intake@usda.gov.
This institution is an equal opportunity provider.

PUBLIC NOTICE

The second reading and adoption of the Marion County proposed budget ordinance for Fiscal Year Ending June 30, 2019 is scheduled to be held at the David R. Houston Government Building on June 21, 2018 at 4:00 p.m.

BUDGET SUMMARY

AN ORDINANCE Relating to the Annual Budget and Appropriations.

BE IT ORDAINED BY THE FISCAL COURT OF MARION COUNTY, KENTUCKY:

WHEREAS, the proposed budget was tentatively approved by the fiscal court on the 17th day of May, 2018 and approved as to form and classification by the State Local Finance Officer on the 30th day of May, 2018.

SECTION ONE: The following budget is adopted for the Fiscal Year 2018-2019 and the amounts stated are appropriated for the purposes indicated.

GENERAL FUND		
Category	Purpose	Budget Appropriation
5000	General Government	\$1,729,800.00
5100	Protection to Persons and Property	\$450,000.00
5200	General Health & Sanitation	\$1,639,800.00
5300	Social Services	\$272,000.00
5400	Recreation & Culture	\$55,000.00
5500	Transportation of School Children	\$25,000.00
7000	Debt Service	\$411,000.00
8000	Capital Projects	\$78,000.00
9000	Administration	\$2,931,200.00
	Total General Fund	\$7,593,000.00
ROAD FUND		
Category	Purpose	Budget Appropriation
6000	Transportation Facilities & Service	\$0
6100	Roads	\$1,912,000.00
6200	Other Transportation Facilities & Services	\$0
7000	Debt Service	\$0
8000	Capital Projects	\$0
9000	Administration	\$168,000.00
	Total Road Fund	\$2,080,000.00
JAIL FUND		
Category	Purpose	Budget Appropriation
5100	Protection to Persons & Property	\$3,380,500.00
7000	Debt Service	\$12,400.00
8000	Capital Projects	\$0
9000	Administration	\$1,120,100.00
	Total Jail Fund	\$4,513,000.00
L.G.E.A. FUND		
Category	Purpose	Budget Appropriation
5100	Protection to Persons & Property	\$30,000.00
9000	Administration	\$65,000.00
	Total L.G.E.A. Fund	\$95,000.00
EMS FUND		
Category	Purpose	Budget Appropriation
5100	Protection to Persons & Property	\$1,129,000.00
9000	Administration	\$331,000.00
	Total EMS Fund	\$1,460,000.00
RESCUE SQUAD (SLAVIN) FUND		
Category	Purpose	Budget Appropriation
5100	Protection to Persons & Property	\$19,800.00
	Total Rescue Squad Fund	\$19,800.00
NATIONAL SCENIC BYWAY PROGRAM FUND		
Category	Purpose	Budget Appropriation
5400	Intergovernmental Revenues	\$100,000.00
	Total Rescue Squad Fund	\$100,000.00
	TOTAL BUDGETED APPROPRIATIONS	\$15,860,000.00
	Total General Fund	\$7,593,000.00
	Total Road Fund	\$2,080,000.00
	Total Jail Fund	\$4,513,000.00
	Total L.G.E.A. Fund	\$95,000.00
	Total EMS Fund	\$1,460,000.00
	Total Rescue Squad Fund	\$19,800.00
	Total National Scenic Byway Program Fund	\$100,000.00
	Total Budget	\$15,860,000.00

SECTION TWO: This ordinance shall be published in The Lebanon Enterprise by title and summary within thirty (30) days following adoption.

SECTION THREE: This ordinance becomes effective upon passage and publication.

NOTICE OF AVAILABILITY

All interested persons and organizations in Marion County are hereby notified that a copy of the county's proposed budget in full is available for public inspection at the Office of the County Judge/Executive during normal business hours.

David Daugherty
Marion County Judge/Executive

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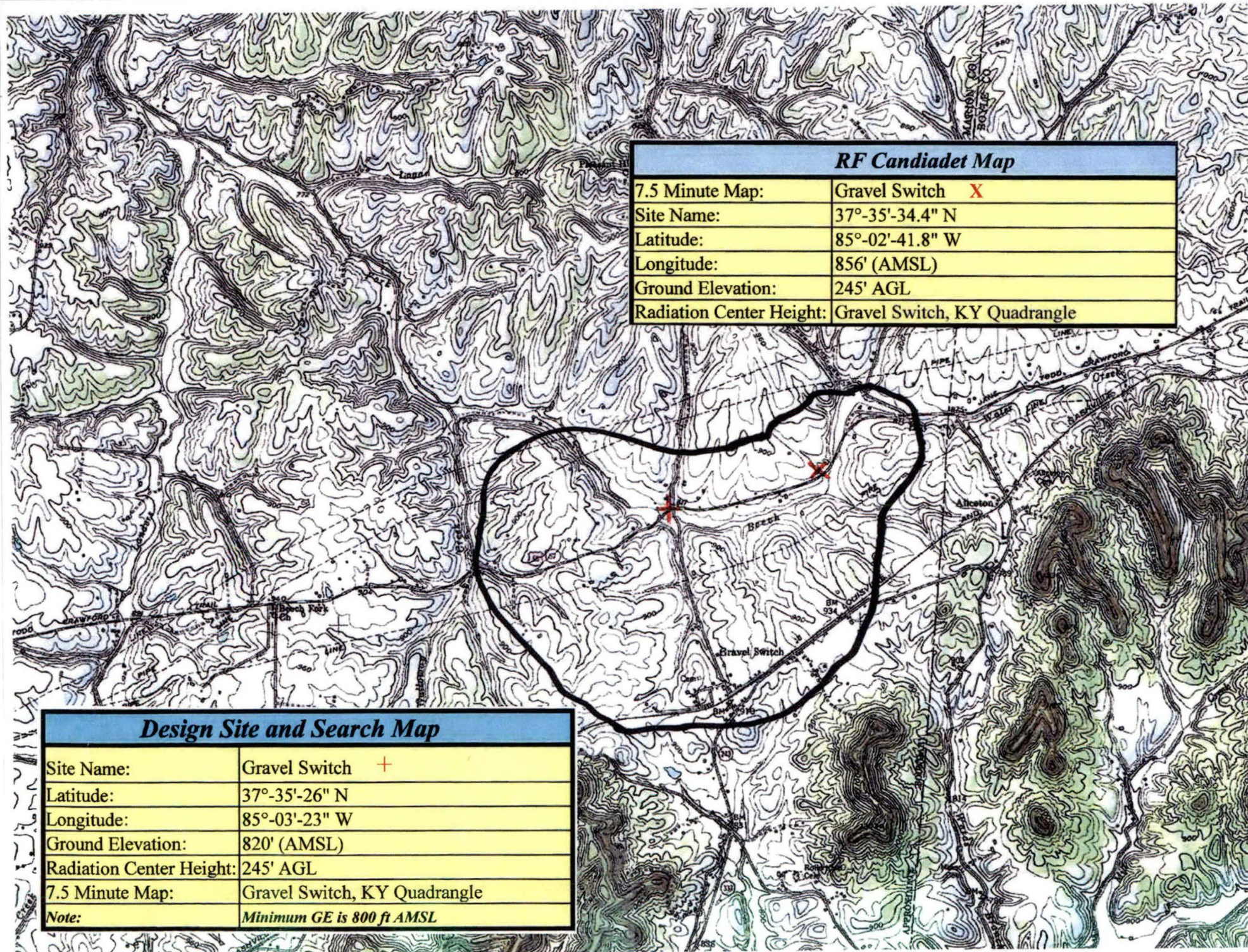
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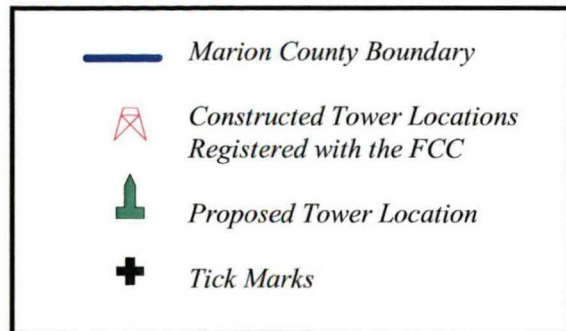
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37°-42'-00" N +
85°-00'-00' W



+ 37°-25'-00" N
85°-30'-00' W

Proposed
Gravel Switch
Tower

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

<i>FCC Tower Reg. No.</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Nearest City</i>	<i>State</i>	<i>Tower Owner</i>
1043055	37-31-58.0 N	085-18-59.0 W	Lebanon	KY	KENTUCKY RSA 4 CELLULAR GENERAL PARTNERSHIP DBA = BLUEGRASS CELLULAR
1044801	37-25-25.0 N	085-16-27.0 W	Spurlington	KY	KENTUCKY, COMMONWEALTH OF DBA = KY EMERGENCY WARNING SYSTEM KEWS
1052450	37-28-03.0 N	085-20-25.0 W	Finley	KY	P & B TOWERS, LLC
1063302	37-35-12.0 N	085-12-15.0 W	Lebanon	KY	COMMONWELATH BROADCASTING COPRPORATION DBA = CBC
1203419	37-32-36.0 N	085-15-34.0 W	Lebanon	KY	Global Tower, LLC. through American Towers, LLC
1205220	37-31-51.0 N	085-26-45.0 W	Raywick	KY	LS Investments I, LLC
1234007	37-35-55.0 N	085-14-47.0 W	Lebanon	KY	CBC of Marion Co.
1238634	37-32-10.0 N	085-18-48.0 W	Lebanon	KY	Inter County Energy Cooperative Corporation
1260096	37-37-57.7 N	085-15-51.6 W	Springfield	KY	SBA Towers III LLC
1261393	37-34-40.5 N	085-08-12.5 W	Lebanon	KY	SBA Towers II LLC
1267688	37-35-28.7 N	085-14-56.6 W	Lebanon	KY	SBA Monarch Towers II, LLC
1276116	37-29-39.8 N	085-11-34.3 W	Lebanon	KY	Kentucky RSA 4 Cellular General Partnership



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
ANTENNA STRUCTURE REGISTRATION



OWNER: KENTUCKY RSA 4 CELLULAR GENERAL PARTNERSHIP

FCC Registration Number (FRN): 0001786722

ATTN: Jill Vice KENTUCKY RSA 4 CELLULAR GENERAL PARTNERSHIP PO BOX 5012 ELIZABETHTOWN, KY 42702			Antenna Structure Registration Number			
			1307438			
			Issue Date			
			09-17-2018			
Location of Antenna Structure 149 Preston Loop Gravel Switch, KY 40328 County: MARION			Ground Elevation (AMSL)			
			260.9 meters			
			Overall Height Above Ground (AGL)			
			76.2 meters			
Latitude	Longitude		Overall Height Above Mean Sea Level (AMSL)			
37- 35- 34.4 N	085- 02- 41.8 W	NAD83	337.1 meters			
Center of Array Coordinates			Type of Structure			
N/A			LTOWER			
			Lattice Tower			
FAA Chapters 4, 8, 12						
Paint and Light in Accordance with FAA Circular Number 70/7460-1L						

This registration is effective upon completion of the described antenna structure and notification to the Commission. **YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854.** To file electronically, connect to the antenna structure registration system by pointing your web browser to <http://wireless.fcc.gov/antenna>. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and *display* your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

FCC 854R
June 2012

You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

- **Posting the Registration Number:** The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).
- **Inspecting lights and equipment:** The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.
- **Reporting outages and malfunctions:** When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.
- **Maintaining assigned painting:** The antenna structure must be repainted as often as necessary to maintain good visibility.
- **Complying with environmental rules:** If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).
- **Updating information:** The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

Copies of the Code of Federal Regulations (which contain the FCC's antenna structure registration rules, 47 C.F.R. Part 17) are available from the Government Printing Office (GPO). To purchase CFR volumes, call (202) 512-1800. For GPO Customer Service, call (202) 512-1803. For additional FCC information, consult the Antenna Homepage on the internet at <http://wireless.fcc.gov/antenna> or call (877) 480-3201 (TTY 717-338-2824).