



Holland N. McTyeire, V
Direct (502) 587-3672 Fax (502) 540-2223 E-mail hnm@gdm.com

Via Hand Delivery

March 21, 2008

Beth O'Donnell
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

Re: In The Matter Of: Application Of New Cingular Wireless PCS, LLC, For The Issuance Of A Certificate Of Public Convenience And Necessity To Construct A Wireless Communications Facility In Carter County, Kentucky And Called The Blueberry Ridge Cell Site, Site #WV306B, Case No. 2008-00084

Dear Ms. O'Donnell:

Pursuant to 807 KAR 5:063 Section 1(1)(a)1., please find the original and five copies of the Application Of New Cingular Wireless PCS, LLC, an indirectly wholly-owned entity of AT&T Inc., for filing with the Commission in the above-styled matter. The Application of New Cingular Wireless PCS, LLC is subject to the jurisdiction of the Commission because the Blueberry Ridge Cell Site is located in Carter County, Kentucky outside the jurisdiction of any planning unit.

If you or your staff have any questions regarding this Application, please do not hesitate to contact me.

Sincerely,

Holland N. McTyeire, V

HNM/jh

Enclosures

cc: Charles E. Yeager
Wendell S. Roberts

RECEIVED

MAR 21 2008

PUBLIC SERVICE
COMMISSION

RECEIVED

MAR 21 2008

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

APPLICATION OF NEW CINGULAR)
WIRELESS PCS, LLC, FOR THE ISSUANCE)
OF A CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY TO)
CONSTRUCT A WIRELESS)
COMMUNICATIONS FACILITY IN)
CARTER COUNTY, KENTUCKY AND)
CALLED THE BLUEBERRY RIDGE CELL)
SITE, SITE #WV306B)

CASE NO. 2008-00084

* * * * *

**APPLICATION OF
NEW CINGULAR WIRELESS PCS, LLC
FOR A WIRELESS COMMUNICATIONS FACILITY**

Applicant, New Cingular Wireless PSC, LLC ("Cingular"), an indirectly wholly-owned entity of AT&T Inc., through counsel, pursuant to KRS 278.020, KRS 278.650, KRS 278.655, 807 KAR 5:063 and the rules and regulations applicable thereto and the Telecommunications Act of 1996, respectfully submits to the Commission its Application For The Issuance A Certificate Of Public Convenience And Necessity To Construct A Wireless Communications Services Facility at Blueberry Ridge Road, Carter County, Kentucky 41164 and called the Blueberry Ridge Cell Site, Site #WV306B. Cingular, in support of its Application, states as follows:

1. Pursuant to 807 KAR 5:001 Section 8(1), the full name of Cingular is New Cingular PCS, LLC. The principal place of business for the Cingular representative responsible for this Application is 4805 Lake Brook Drive, Suite 115, Glen Allen, Virginia 23060.

2. Any inquiries regarding this Application should be brought to the attention of the following:

Holland N. McTyeire, V

GREENEBAUM DOLL & MCDONALD PLLC
3500 National City Tower
101 South Fifth Street
Louisville, Kentucky 40202
Telephone: (502) 589-4200
Facsimile: (502) 587-3695
E-mail: hnm@gdm.com

and

Charles E. Yeager
Site Acquisition Coordinator

BECHTEL COMMUNICATIONS INC.
Richmond Market (Cingular Project)
4805 Lake Brook Drive, Suite 115
Glen Allen, Virginia 23060
E-mail: ceyeager@bechtel.com

3. Cingular is a Delaware Limited Liability Corporation. Pursuant to 807 KAR 5:001 Sections 8(3) and 9(1)(a) and 807 KAR 5:063 Section 1(1)(c), a certified copy of the Articles of Incorporation of Cingular's predecessor in interest, a copy of its Certificate of Authority to do business in Kentucky, and a copy of its FCC license to provide Wireless Communications Services in Kentucky, were provided by Cingular's predecessor in interest to the Commission in Case No. 96-284. These similar materials for Cingular have also previously been provided to the Commission in Case Nos. 2006-00362, 2006-00384 and 2007-00123.

4. Pursuant to 807 KAR 5:001 Sections 8(1), 9(1)(d), and 9(2)(a), the Wireless Communications Facility (the "WCF") which Cingular proposes to construct and operate at Blueberry Ridge Road, Carter County, Kentucky 41164 and called the Blueberry Ridge Cell Site, Site #WV306B, within the Huntington/Ashland MSA, is in the public interest because it is

needed to construct and develop a Wireless Communications Service Network in the Huntington/Ashland MSA. This WCF will meet the Wireless Communications Services needs of the community in the Huntington/Ashland MSA. Cingular may install and operate a Temporary WCF, or Cell On Wheels (“COW”), at or near the above Cell Site, during the pendency of this Application.

5. Pursuant to 807 KAR 5:001 Sections 9(1)(b) and (c) and 807 KAR 5:063 Section 1(1)(c), the FCC certified Cingular’s predecessor in interest, as a Wireless Communications Services provider in the Huntington/Ashland MSA. A copy of the FCC licenses of Cingular and its predecessor in interest have previously been provided to the Commission as referred to in Numerical Paragraph 3.

6. One (1) Map to at least the scale required by 807 KAR 5:001 Section 9(2)(d) (preferably not more than two (2) miles per inch) showing the location and construction of the Blueberry Ridge Cell Site is provided with the original of this Application. The Map provides a Lease Map, Radius Map and Site Plan & Tower Elevation Map (Sheet Nos. 2, 3 & 4), signed and sealed by either a licensed professional land surveyor or a professional engineer, registered in Kentucky, stating the proposed location of the WCF and all easements and existing structures within 500 feet of the proposed site on the property on which the WCF will be located, which includes all easements and existing structures within 200 feet of the access drive, including the intersection with the public street system as required by 807 KAR 5:063 Section 1(1)(h).

7. The Map referred to in Numerical Paragraph 6 is at least to the scale required by 807 KAR 5:063 Section 1(1)(k) (no less than one (1) inch equals 200 feet) and identifies every structure and every owner of real property within 500 feet of the proposed WCF.

8. Cingular advises the Commission that this Application falls within KRS 278.650 because the Blueberry Ridge Cell Site is located in an area of Carter County, Kentucky which is outside the jurisdiction of any planning unit.

9. Pursuant to 807 KAR 5:063 Section 1(1)(t), Cingular provides a Search Ring Map which demonstrates the area in which the WCF is proposed to be located, that is drawn to scale and that clearly depicts the necessary search area within which a Cell Site should, pursuant to radio frequency requirements, be located. The Search Ring Map prepared by Cingular is attached hereto as Exhibit A.

10. Pursuant to 807 KAR 5:063 Section 1(1)(e), directions from the county seat to the Blueberry Ridge Cell Site are as follows:

Start out going East on US-60/West Main Street toward Hillview Street. Turn left onto KY-1/KY-7/Railroad Street. Merge onto I-64 West via the ramp on the left and follow I-64 West to Exit 161, Olive Hill, Kentucky. Go left at the bottom of the exit ramp onto US Route 60. Follow US Route 60 for 4 miles to State Route 1704. Turn right onto State Route 1704 and follow it to Blueberry Ridge Road. Turn left onto Blueberry Ridge Road and follow it for approximately 0.5 miles. The Blueberry Ridge Cell Site is on the left side of the road.

The above directions were prepared by the undersigned counsel for Cingular.

11. Pursuant to 807 KAR 5:001 Section 9(2)(c), the WCF will be constructed on a site leased by Cingular and located at Blueberry Ridge Road, Carter County, Kentucky 41164. Pursuant to 807 KAR 5:063 Section 1(1)(f), a copy of the Option And Lease Agreement (the "Lease") is attached hereto as Exhibit B. Numerical Paragraph 13 of the Lease provides information regarding removal of the WCF if it should be abandoned when the Lease expires.

12. Pursuant to 807 KAR 5:001 Section 9(2)(b) and, 807 KAR 5:063 Section 1(1)(b), a copy of the August 23, 2007 FAA 1-A Accuracy Statement providing the coordinates for the proposed site is attached hereto as part of Exhibit C. The FAA study number is 2008-ASO-1592-OE. Cingular will provide additional information as it is received from the FAA.

13. Pursuant to 807 KAR 5:001 Section 9(2)(b), and 807 KAR 5:063 Section 1(1)(b), Cingular will provide any materials from the Kentucky Airport Zoning Commission (“KAZC”) for the Blueberry Ridge Cell Site as they are received.

14. Pursuant to 807 KAR 5:001 Section 9(2)(g) and KRS 322.340, Cingular provides a Site Plan Map providing a Title Sheet, Lease Map, Radius Map, Site Plan & Tower Elevation, Grading Plan, Foundation Details, Construction Notes, Silt Fence Details, Fence Details and Notes, Electrical Notes and Details, Single Line Diagram and Details, Grounding Details (Sheet Nos. 12 & 13), Grounding Plan and Notes, Antenna Configuration and Schedule and Coax Color Coding all in support of the proposed Blueberry Ridge Cell Site. These documents, which are smaller versions of the Maps referred to in Numerical Paragraphs 6 and 7, are attached hereto as Exhibit D. The Radius Map (Sheet No. 3) provides the Flood Plain Information required by 807 KAR 5:063 Section 1(1)(d).

15. Pursuant to 807 KAR 5:001 Section 9(2)(g) and 807 KAR 5:063 Section 1(1)(d), Cingular submits the Foundation Investigation for the Blueberry Ridge Cell Site, noting the integrity of the soil on which the proposed tower will be built, a copy of which is attached hereto as Exhibit E. The Foundation Investigation Report includes boring logs and foundation design recommendations.

16. Pursuant to 807 KAR 5:001 Section 9(2)(g) and 807 KAR 5:063 Sections 1(1)(g), (i), and (j), Cingular submits the Specifications for the proposed WCF which are provided on the Site Plan & Tower Elevation, Grading Plan and Foundation Detail Maps (Sheet Nos. 4, 5 & 6) referred to above, a separate copy of which is attached hereto as Exhibit F. The Specifications for the WCF contain the following:

- a. identity of each person directly responsible for the design and construction of the proposed WCF;

- b. 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; and
- c. 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.

All of the foregoing establish the technical capability and reliability of the WCF to be constructed at the Blueberry Ridge Cell Site.

17. Pursuant to 807 KAR 5:063 Sections 1(1)(l), (m), (n), and (o), Cingular also submits a copy of the Public Notice Letter that was sent to every person who, according to records of the Property Valuation Administrator, owns property within 500 feet of the proposed WCF, and the Carter County Judge Executive. The Public Notice Letter advises that Cingular may install, or employ, a COW at or near the Blueberry Ridge Cell Site during the pendency of this Application. A copy the Public Notice Letter, and a list of all landowners located within 500 feet of the Blueberry Ridge Cell Site, as well as the Carter County Judge Executive, is attached hereto as Exhibit G. Cingular sent the Notice Letters, via Certified Mail Return Receipt Requested, to the property owners and the Carter County Judge Executive reflected on Exhibit G on March 21, 2008.

18. Pursuant to 807 KAR 5:063 Section 1(1)(p), on March 17, 2008, Public Notices were posted in a visible location on the Blueberry Ridge Cell Site, and on the nearest public road, and shall remain so posted for at least two weeks following the above date. Copies of the Notices posted on the Blueberry Ridge Cell Site and the nearest public road comply with the following requirements of 807 KAR 5:063 Section 1(2):

- a. The Notices are two (2) feet by four (4) feet.
- b. The Notices advise that Cingular proposes to construct a Telecommunications Tower or Monopole on (near) this site. If you have any questions, please contact Holland N. ("Quint") McTyeire, V,

Greenebaum Doll & McDonald PLLC, 3500 National City Tower, 101 South Fifth Street, Louisville, Kentucky 40202, (502) 589-4200 and Wendell S. Roberts, Gray, Woods & Cooper, 510-16th Street, P.O. Box 70, Ashland, Kentucky 41105, (606) 329-2121, counsel for Cingular, or the Executive Director, Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615. Please refer to Case No. 2008-00084 in your correspondence.

- c. In both Notices, the word “tower” or “monopole” shall be printed in letters at least four (4) inches high.

Copies of the Public Notices posted on a visible location on the Blueberry Ridge Cell Site, and on the nearest public road, as well as photos showing the Public Notices as posted are attached hereto as Exhibit H.

19. Pursuant to 807 KAR 5:063 Section 1(1)(q) and KRS Chapter 424, on March 26, 2008, a Legal Notice will be published in the *Olive Hill Times* which is a newspaper of general circulation in Carter County, Kentucky. The Legal Notice advises that Cingular may install, or employ, a COW at or near the above Cell Site during the pendency of this Application. A copy of the Legal Notice is attached hereto as Exhibit I. Pursuant to KRS 424.170, Cingular will provide an Affidavit of Publication when same is received from the *Olive Hill Times*.

20. Pursuant to 807 KAR 5:063 Section 1(1)(r), the character of the general area in which the proposed WCF will be located may be described as rolling farmland. The proposed site is shielded by tree cover for the majority of the property line. The proposed WCF is located over 200 feet from the nearest property line. Copies of photographs of the proposed site in all four directions and to the access road are attached as Exhibit J and best demonstrate that the site will likely have no effect on nearby land uses and values.

21. Pursuant to 807 KAR 5:063 Section 1(1)(s), Cingular has considered the likely effects of the WCF on nearby land use around the Blueberry Ridge Cell Site and has concluded that there is no more suitable location. Cingular carefully studied the results of its network

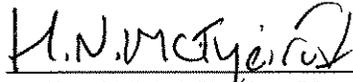
coverage objectives and determined that there are no available opportunities for collocation by Cingular in the area because no other WCFs or tall structures are located in the area where the WCF needs to be located, as reflected on the Search Ring Map attached as Exhibit A.

22. In particular, the coverage objectives for the proposed Blueberry Ridge Cell Site are to provide in-building coverage in the towns of Olive Hill and Clark Hill, Kentucky. In addition, the Blueberry Ridge Cell Site provides coverage from US 60/SR 2 North to I-64, US 60/SR 2078 North and US 60/SR 1704 North to I-64. The proposed Blueberry Ridge Cell Site will enhance the network by filling a coverage gap and will allow sites to the east and west to hand-off calls seamlessly to each other along I-64, which will reduce dropped calls.

23. There is no existing structure from which this coverage could be obtained. According to FCC ASR database, there are 12 towers located within 10 miles of the Blueberry Ridge Cell Site. Ten of the 12 towers are located more than two miles away and thus, do not give Cingular the ability to meet the coverage and network performance goals described above. Two sites are located within two miles, roughly 1.01 miles and 1.91 miles from the proposed location. Neither of these sites will allow Cingular to meet the coverage and network performance requirements, outlined above, as one of the sites will not allow in-building coverage in Clark Hill or Olive Hill, Kentucky and the other will not allow coverage and connection of the network on I-64. The RF and other Maps demonstrating these issues are attached as Exhibit K.

WHEREFORE, Cingular respectfully requests that the Commission accept the foregoing Application for filing and, having met the requirements of KRS 278.020 and all applicable rules and regulations of the Commission, grant it a Certificate of Public Convenience and Necessity to construct and operate a WCF at the location set forth herein for its Wireless Communications Network in Kentucky.

Respectfully submitted,



Holland N. McTyre, V

GREENEBAUM DOLL & MCDONALD PLLC
3500 National City Tower
101 South Fifth Street
Louisville, Kentucky 40202
Telephone: (502) 589-4200
Facsimile: (502) 587-3695
E-mail: hnm@gdm.com

and

Wendell S. Roberts

GRAY, WOODS & COOPER
510-16th Street
P.O. Box 70
Ashland, Kentucky 41105
Telephone: (606) 329-2121
Facsimile: (606) 324-0751
Email: wroberts@inicity.net

COUNSEL FOR APPLICANT,
NEW CINGULAR WIRELESS PSC, LLC

EXHIBITS

EXHIBIT A	Search Ring Map
EXHIBIT B	Option And Lease Agreement
EXHIBIT C	FAA Materials
EXHIBIT D	Site Plan and other Maps
EXHIBIT E	Foundation Investigation Report
EXHIBIT F	Specifications
EXHIBIT G	Public Notice Mailed to Landowners, Residents, and Local Planning Unit
EXHIBIT H	Public Notice Posted at Blueberry Ridge Cell Site Public Notice Posted at Nearest Public Road to the Blueberry Ridge Cell Site
EXHIBIT I	Legal Notice
EXHIBIT J	Photographs from the Proposed Site
EXHIBIT K	RF and Other Maps

PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING NEW ANTENNAS AND AN EQUIPMENT SHELTER.

SITE ADDRESS: BLUEBERRY RIDGE RD. OLIVE HILL, KY 41164

LATITUDE: N38° 19' 07.31" (NAD83)
 LONGITUDE: W83° 11' 06.74" (NAD83)
 ELEVATION: 1048.38' (NAVD88)
 TOWER HEIGHT: 300' (AGL)

FLOOD PLAIN ZONE: C

JURISDICTION: CARTER COUNTY

ZONING DISTRICT CLASSIFICATION: WIRELESS COMMUNICATIONS

PARCEL SIZE: 11.4 AC.

TAX MAP / DEED REFERENCE: TM 33, PAR 106 / D.B. 132, PG. 495

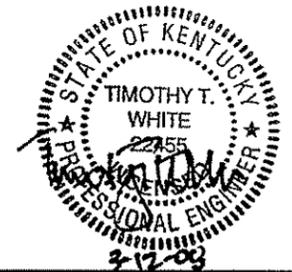
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PROPERTY OWNER: RICHARD A. AND MADINE STALLARD
 1853 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164

NAME OF APPLICANT: NEW CINGULAR WIRELESS PCS, LLC



SITE NUMBER: WV306B
SITE NAME: BLUEBERRY RIDGE



DRAWING INDEX

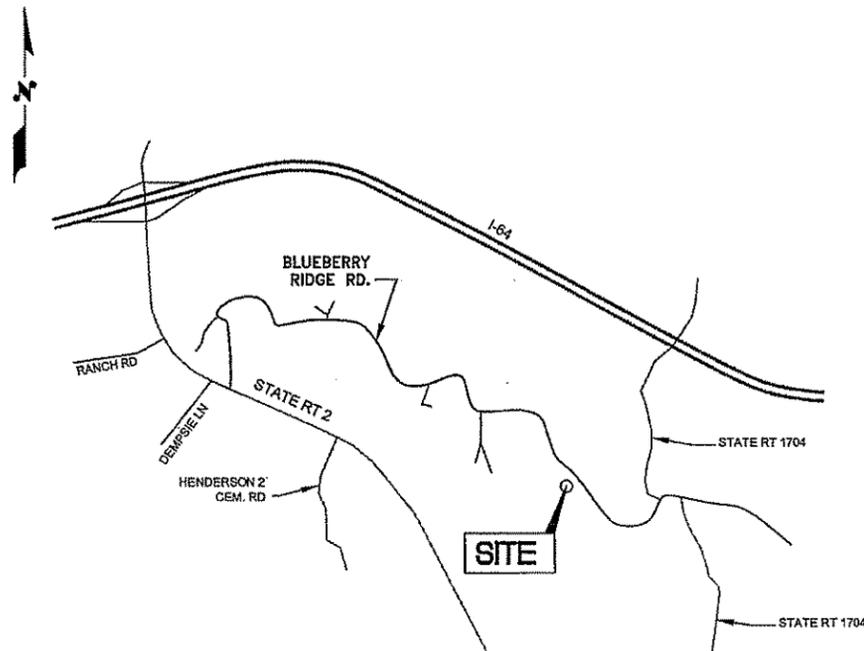
REV

VICINITY MAP

APPLICABLE BUILDING CODES AND STANDARDS

WV-WV306-01	TITLE SHEET	3
WV-WV306-02	LEASE MAP	2
WV-WV306-03	RADIUS MAP	3
WV-WV306-04	SITE PLAN + TOWER ELEVATION	3
WV-WV306-05	GRADING PLAN	3
WV-WV306-06	FOUNDATION DETAILS	3
WV-WV306-07	CONSTRUCTION NOTES	3
WV-WV306-08	SILT FENCE DETAILS	3
WV-WV306-09	FENCE NOTES + DETAILS	3
WV-WV306-10	ELECTRICAL NOTES + DETAILS	3
WV-WV306-11	SINGLE LINE DIAGRAM + DETAILS	3
WV-WV306-12	GROUNDING DETAILS	3
WV-WV306-13	GROUNDING DETAILS	3
WV-WV306-14	GROUNDING PLANS + NOTES	3
WV-WV306-15	ANTENNA CONFIGURATION + SCHEDULE	3
WV-WV306-16	COAX COLOR CODING	3

DIRECTIONS:
 GO SOUTHWEST ON COX ROAD TOWARD NORTH PARK DR. 0.6 MILES. TURN RIGHT ONTO NUCKOLS RD. MERGE ONTO I-295 NORTH TOWARD I-64 WEST (CHARLOTTESVILLE). MERGE ONTO I-64 WEST VIA EXIT 53A TOWARD CHARLOTTESVILLE. FOLLOW I-64 WEST TO EXIT 161 OLIVE HILL, KY. GO LEFT AT BOTTOM OF EXIT RAMP ONTO US ROUTE 60. FOLLOW US ROUTE 60 FOR 4 MILES TO STATE ROUTE 1704. TURN RIGHT ONTO STATE ROUTE 1704 AND FOLLOW TO BLUEBERRY RIDGE RD. TURN LEFT ONTO BLUEBERRY RIDGE ROAD AND FOLLOW FOR APPROXIMATELY 0.5 MILES. SITE IS ON THE LEFT SIDE OF THE ROAD.



SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 INTERNATIONAL BUILDING CODE (IBC 2000)

ELECTRICAL CODE:
 NATIONAL ELECTRIC CODE, (NEC 1999) W/2003 AMENDMENTS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES:
 TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS-BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

DETAIL 103

CINGULAR CONSTRUCTION: _____ CINGULAR RF: _____

CINGULAR COMPLIANCE: _____ BECHTEL CONSTRUCTION: _____

NOTES

1. SEE THE FOLLOWING NOTES, SYMBOLS AND DETAILS, BECHTEL DOCUMENT NUMBER 24782-000-A3-EF-00001 FOR THE IMPLEMENTATION OF THIS SITE DESIGN PACKAGE:

- | | |
|---|--------------|
| CONCRETE AND REINFORCING STEEL NOTES | (DETAIL 102) |
| APPLICABLE BUILDING CODES AND STANDARDS | (DETAIL 103) |
| RF NOTES | (DETAIL 116) |
| SITE WORK GENERAL NOTES | (DETAIL 619) |
| STRUCTURAL STEEL NOTES | (DETAIL 620) |
| GROUNDING NOTES | (DETAIL 621) |
| ELECTRICAL INSTALLATION NOTES | (DETAIL 622) |
| GENERAL NOTES | (DETAIL 623) |
| GREENFIELD TVSS NOTES | (DETAIL 624) |



CALL BEFORE YOU DIG,
 DRILL OR BLAST
 S.U.D. OF KENTUCKY
 1-800-752-6007



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

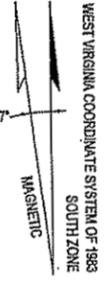
CINGULAR WIRELESS

TITLE SHEET

DRAWING NUMBER	REV
24782-421	WV-306-01 3

T:\Survey\SURVEY PROJECTS\31-BECHTEL\WV-306\dwg\WV306B-CDS.dwg 11/9/2007 9:16:30 AM EST

T:\Survey\SURVEY PROJECTS\131-BECHTEL\WV-306\DWG\OLIVE HILL-CDS.dwg 8/17/2007 11:44:23 AM EDT



LEGEND:

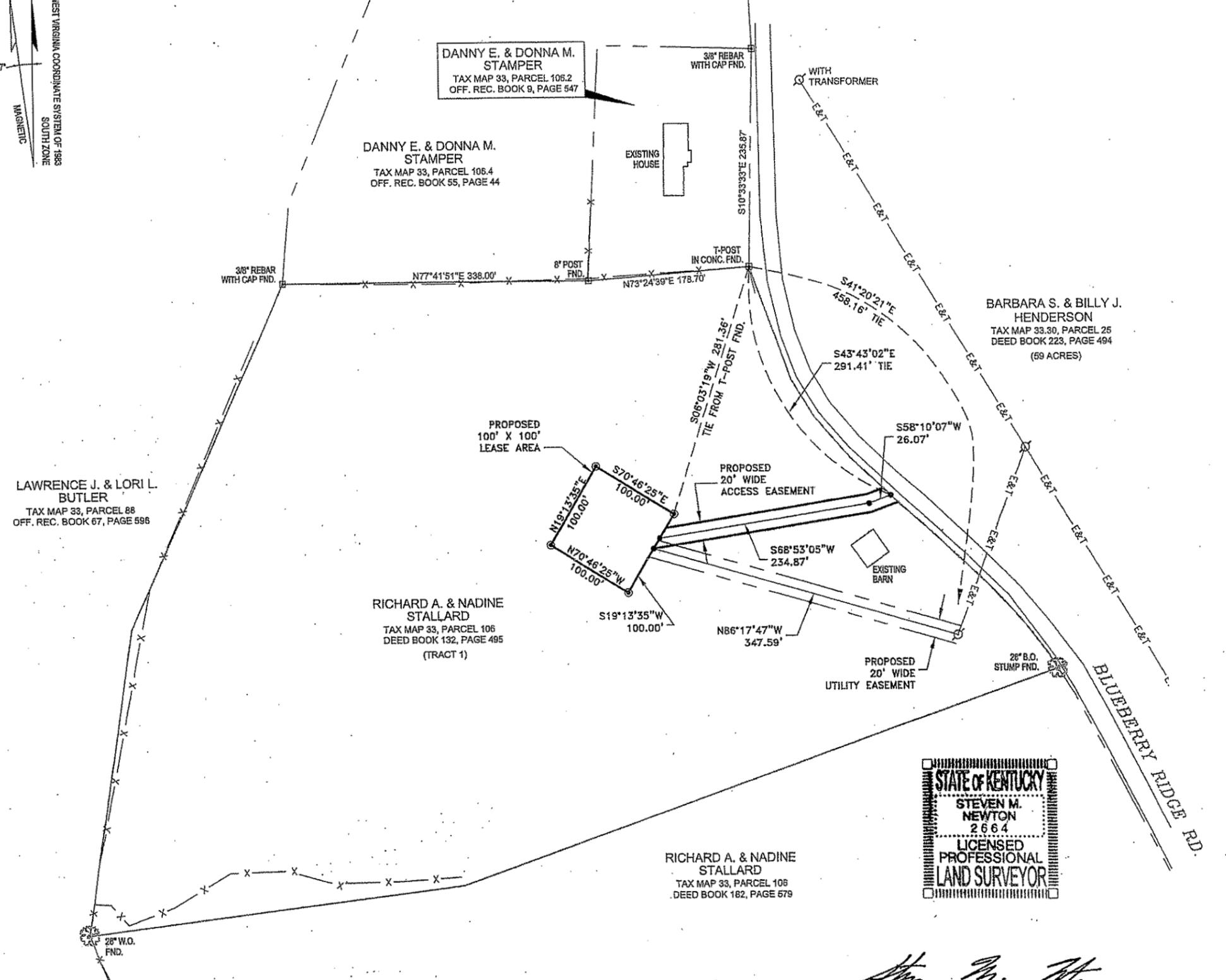
— X —	LEASE LINE
—	EXISTING FENCE
⊕	FOUND MONUMENTATION
⊙	BENCH MARK
○	CALCULATED POINT
⊕	TELEPHONE OR ELECTRIC RISER
⊙	UTILITY POLE

LEGAL DESCRIPTION:

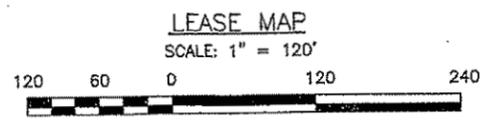
LEASE AREA
 BEING A 100 FOOT BY 100 FOOT TRACT OF LAND LOCATED WITHIN PROPERTY OWNED BY RICHARD A. AND NADINE STALLARD AS RECORDED IN DEED BOOK 132 AT PAGE 495, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT A T-POST IN CONCRETE FOUND, SAID T-POST BEING THE SOUTHEASTERLY CORNER OF PROPERTY OWNED BY DANNY E. AND DONNA M. STAMPER AS RECORDED IN OFFICIAL RECORD BOOK 9 AT PAGE 547, AND BEING A COMMON CORNER TO THE SAID STALLARD PROPERTY; THENCE WITH A TIE LINE S06°03'19"W 281.36' TO A 5/8" REBAR WITH CAP SET, SAID REBAR BEING THE TRUE POINT OF BEGINNING; THENCE S19°13'35"W 100.00' TO A 5/8" REBAR WITH CAP SET; THENCE N70°46'25"W 100.00' TO A 5/8" REBAR WITH CAP SET; THENCE N19°13'35"E 100.00' TO A 5/8" REBAR WITH CAP SET; THENCE S70°46'25"E 100.00' TO THE TRUE POINT OF BEGINNING, CONTAINING 10,000 SQ. FT. (0.23 ACRES), MORE OR LESS.

ACCESS EASEMENT
 BEING A 20 FOOT WIDE STRIP OF LAND, 10 FOOT EITHER SIDE OF CENTERLINE, LOCATED WITHIN PROPERTY OWNED BY RICHARD A. AND NADINE STALLARD AS RECORDED IN DEED BOOK 132 AT PAGE 495, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT A T-POST IN CONCRETE FOUND, SAID T-POST BEING THE SOUTHEASTERLY CORNER OF PROPERTY OWNED BY DANNY E. AND DONNA M. STAMPER AS RECORDED IN OFFICIAL RECORD BOOK 9 AT PAGE 547, AND BEING A COMMON CORNER TO THE SAID STALLARD PROPERTY; THENCE WITH A TIE LINE S43°43'02"E 291.41' TO A POINT, SAID POINT BEING THE WESTERLY RIGHT OF WAY LINE OF BLUEBERRY RIDGE ROAD, AND BEING THE TRUE POINT OF BEGINNING; THENCE S58°10'07"W 26.07' TO A POINT; THENCE S68°53'05"W 234.87' TO A POINT IN THE SOUTHEASTERLY LINE OF A 10,000 SQ. FT. CELLULAR TOWER LEASE AREA, SAID POINT BEING THE TERMINUS OF THE DESCRIBED ACCESS EASEMENT, CONTAINING 5,219 SQ. FT. (0.12 ACRES), MORE OR LESS.

UTILITY EASEMENT
 BEING A 20 FOOT WIDE STRIP OF LAND, 10 FOOT EITHER SIDE OF CENTERLINE, LOCATED WITHIN PROPERTY OWNED BY RICHARD A. AND NADINE STALLARD AS RECORDED IN DEED BOOK 132 AT PAGE 495, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
 COMMENCING AT A T-POST IN CONCRETE FOUND, SAID T-POST BEING THE SOUTHEASTERLY CORNER OF PROPERTY OWNED BY DANNY E. AND DONNA M. STAMPER AS RECORDED IN OFFICIAL RECORD BOOK 9 AT PAGE 547, AND BEING A COMMON CORNER TO THE SAID STALLARD PROPERTY; THENCE WITH A TIE LINE S41°20'21"E 458.16' TO AN EXISTING UTILITY POLE, SAID UTILITY POLE BEING THE TRUE POINT OF BEGINNING; THENCE N86°17'47"W 347.59' TO A POINT IN THE SOUTHEASTERLY LINE OF A 10,000 SQ. FT. CELLULAR TOWER LEASE AREA, SAID POINT BEING THE TERMINUS OF THE DESCRIBED UTILITY EASEMENT, CONTAINING 6,952 SQ. FT. (0.16 ACRES), MORE OR LESS.



STATE OF KENTUCKY
 STEVEN M. NEWTON
 2664
 LICENSED PROFESSIONAL LAND SURVEYOR



Steven M. Newton

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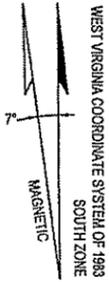
SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY. 41184



1	08/17/07	STAMPED CD'S	WKM	CSP	RFT
A	06/07/07	PRELIMINARY	WKM	CSP	RFT
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

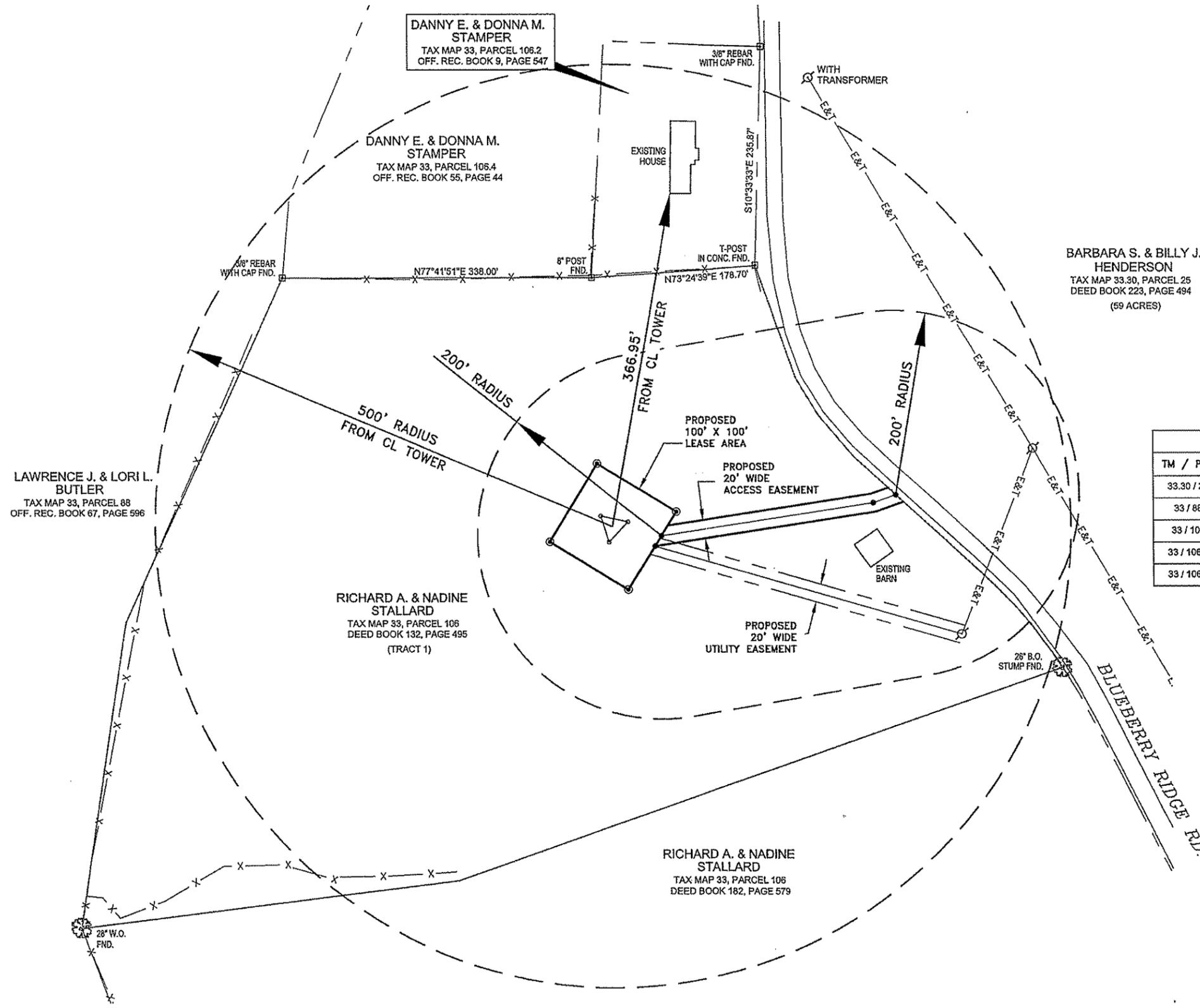
AT&T WIRELESS	
LEASE MAP	
DRAWING NUMBER	REV
24782-421	WV-306-02 1

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LEGEND:

- X — LEASE LINE
- — — EXISTING FENCE
- ⊕ FOUND MONUMENTATION
- ⊙ BENCH MARK
- CALCULATED POINT
- ⊕ TELEPHONE OR ELECTRIC RISER
- ⊙ UTILITY POLE

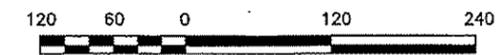


OWNER INDEX		
TM / PAR	OWNER	ADDRESS
33.30 / 25	BARBARA S. & BILLY J. HENDERSON	BOX 620 OLIVE HILL, KY 41164
33 / 88	LAWRENCE J. & LORI L. BUTLER	90 ASBURY LN. OLIVE HILL, KY 41164
33 / 106	RICHARD A. & NADINE STALLARD	PO BOX 471 OLIVE HILL, KY 41164
33 / 106.2	DANNY E. & DONNA M. STAMPER	PO BOX 1605 OLIVE HILL, KY 41164
33 / 106.4	DANNY E. & DONNA M. STAMPER	PO BOX 1605 OLIVE HILL, KY 41164

FLOOD PLAIN INFORMATION
 NATIONAL FLOOD INSURANCE PROGRAM
 EFFECTIVE DATE: FEBRUARY 15, 1984
 THIS PARCEL IS LOCATED IN ZONE "C"
 IN ACCORDANCE TO F.I.R.M.
 COMMUNITY PANEL No. 210050 0135 B



LEASE MAP
 SCALE: 1" = 120'



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164



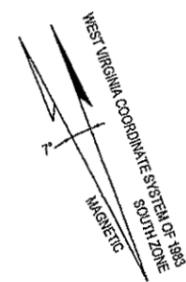
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2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS		
RADIUS MAP		
DRAWING NUMBER	REV	
24782-421	WV-306-03	3

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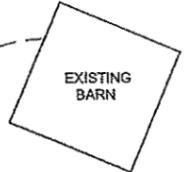
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- X — EXISTING FENCE
- FOUND MONUMENTATION
- BENCH MARK
- CALCULATED POINT
- TELEPHONE OR ELECTRIC RISER
- UTILITY POLE

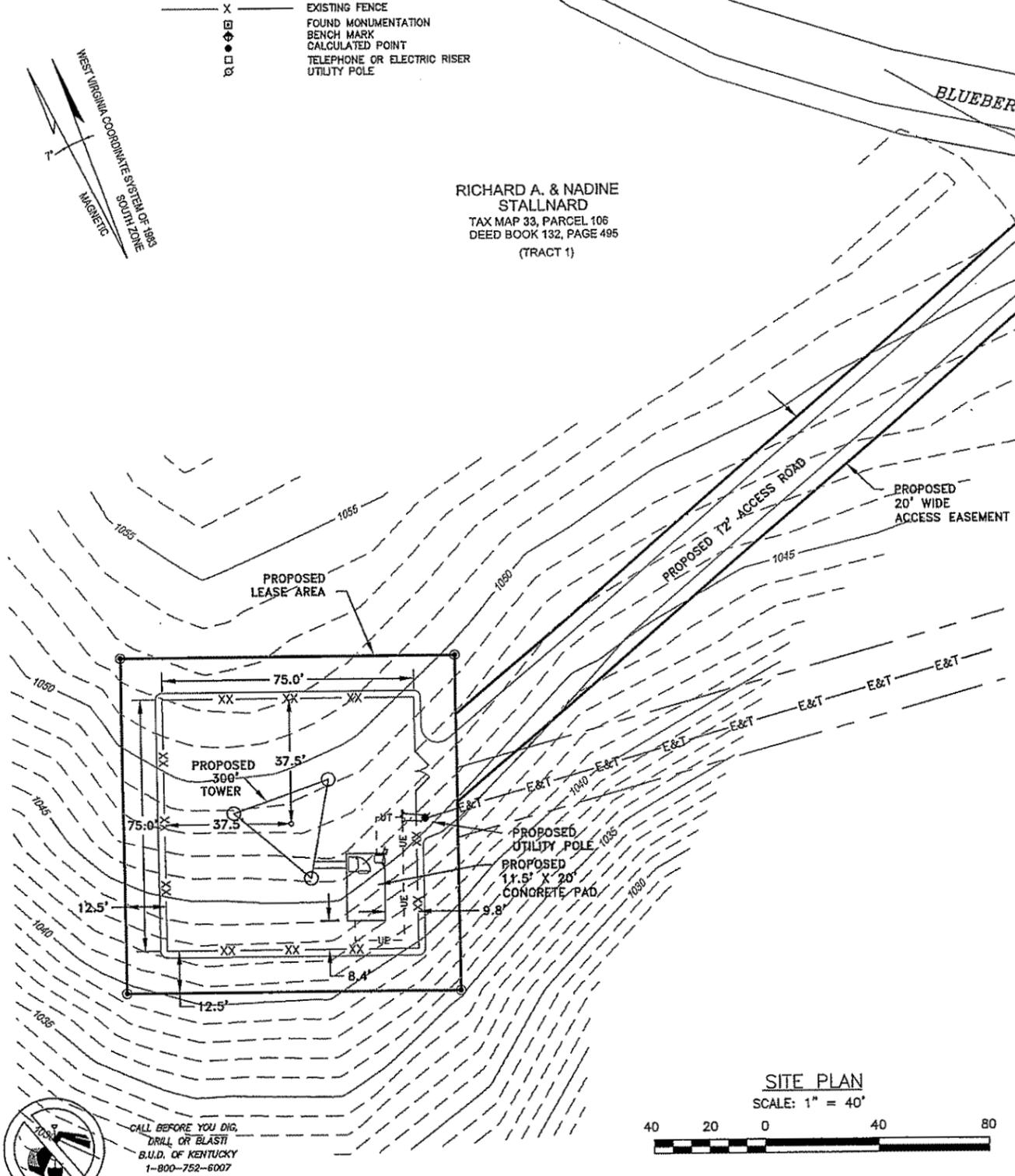


RICHARD A. & NADINE STALLNARD
TAX MAP 33, PARCEL 106
DEED BOOK 132, PAGE 495
(TRACT 1)

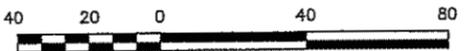
BLUEBERRY RIDGE RD.



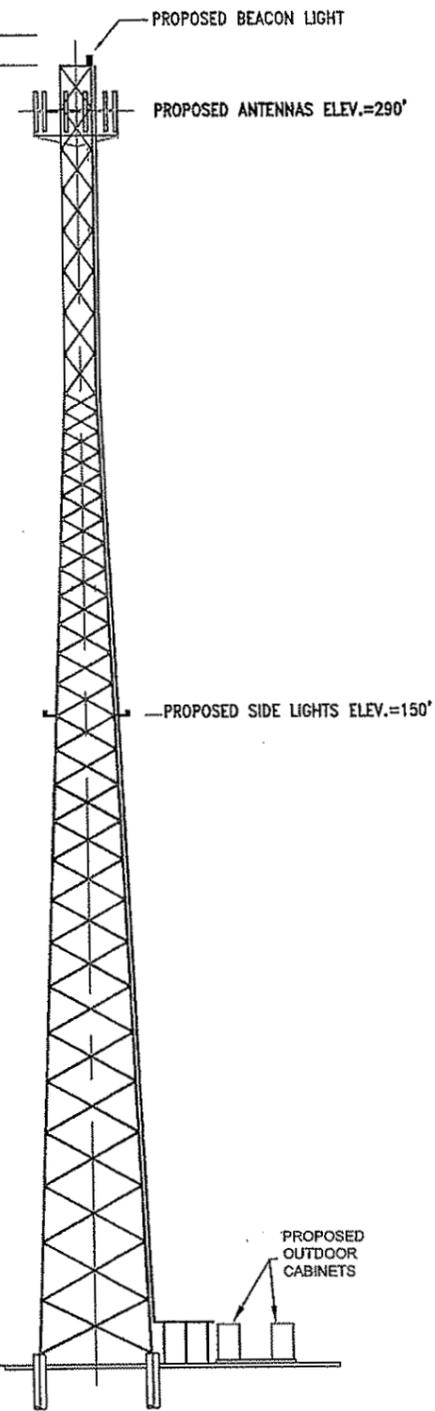
EXISTING BARN



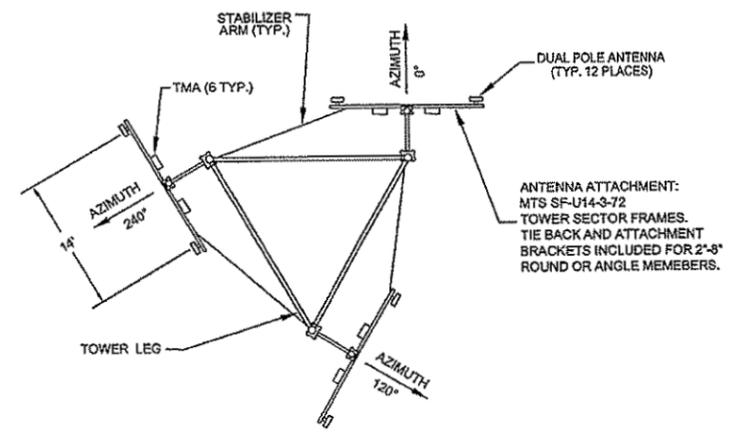
SITE PLAN
SCALE: 1" = 40'



TOP OF LIGHTNING ROD ELEV. 304'
TOP OF TOWER ELEV. 300'



TOWER ELEVATION
SCALE: NO SCALE



PLAN VIEW
TOWER MOUNTING DETAIL
THREE ANTENNA PER SECTOR WITH STANDOFF
HORIZONTAL SEPARATION CONFIGURATION



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SITE NAME: BLUEBERRY RIDGE
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BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



NO.	DATE	REVISIONS	BY	CHK	APP'D
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2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
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0	06/07/07	PRELIMINARY	WKM	CGP	TTW

SCALE: AS SHOWN DESIGNED BY: WKM DRAWN BY: WKM

CINGULAR WIRELESS		
SITE PLAN & TOWER ELEVATION		
DRAWING NUMBER		REV
24782-421	WV-306-04	3

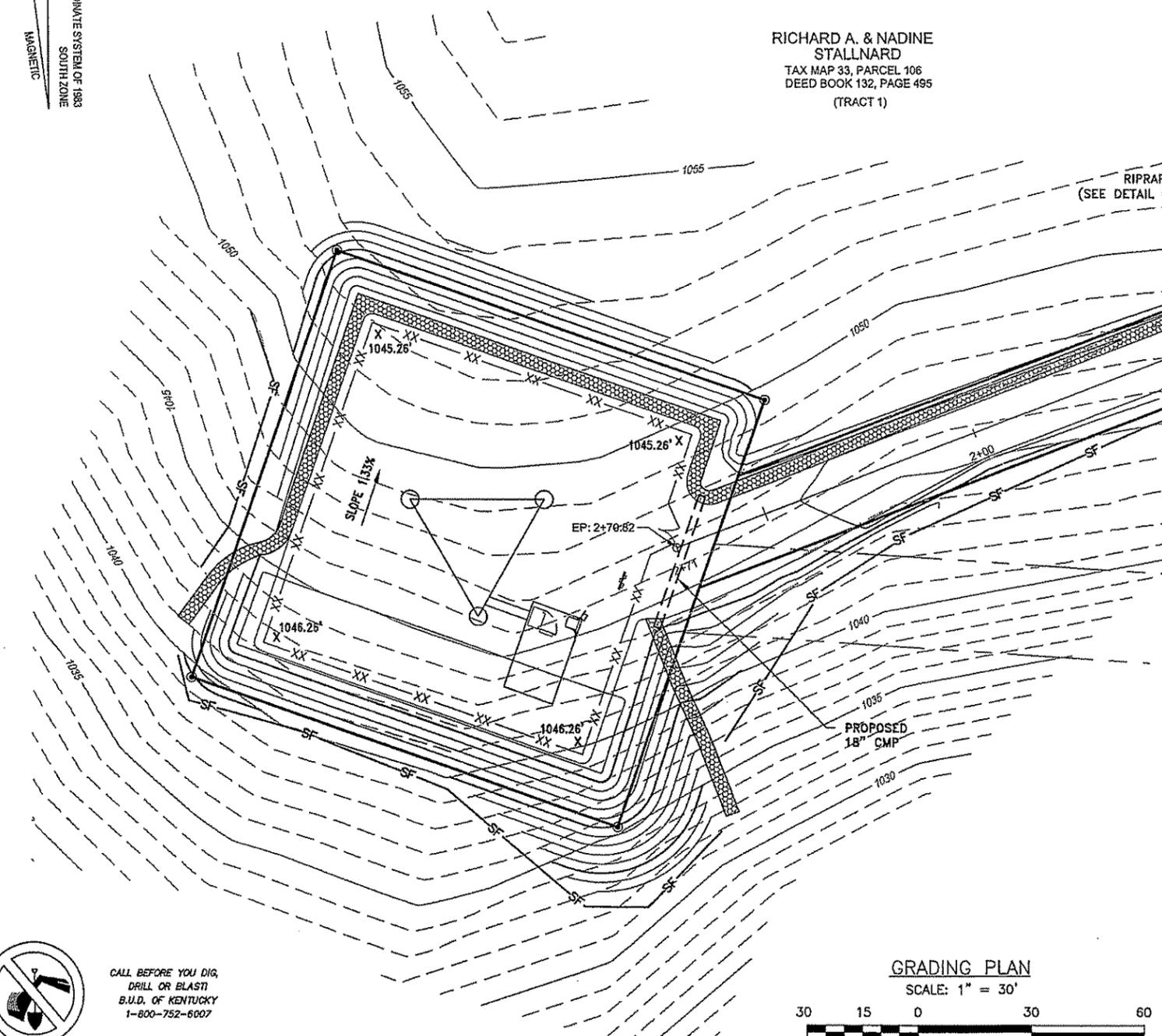
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LEGEND:

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- — — EXISTING FENCE
- • — FOUND MONUMENTATION
- ○ — BENCH MARK
- ● — CALCULATED POINT
- ○ — TELEPHONE OR ELECTRIC RISER
- ○ — UTILITY POLE

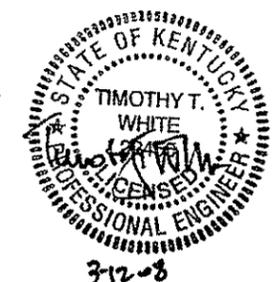
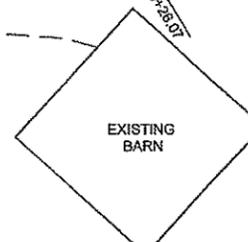


RICHARD A. & NADINE STALLNARD
TAX MAP 33, PARCEL 106
DEED BOOK 132, PAGE 495
(TRACT 1)



PROPOSED RIPRAP DITCH (TYP.)
(SEE DETAIL ON SHEET 07)

PROPOSED SILT FENCE (TYP.)
(SEE DETAIL ON SHEET 07)



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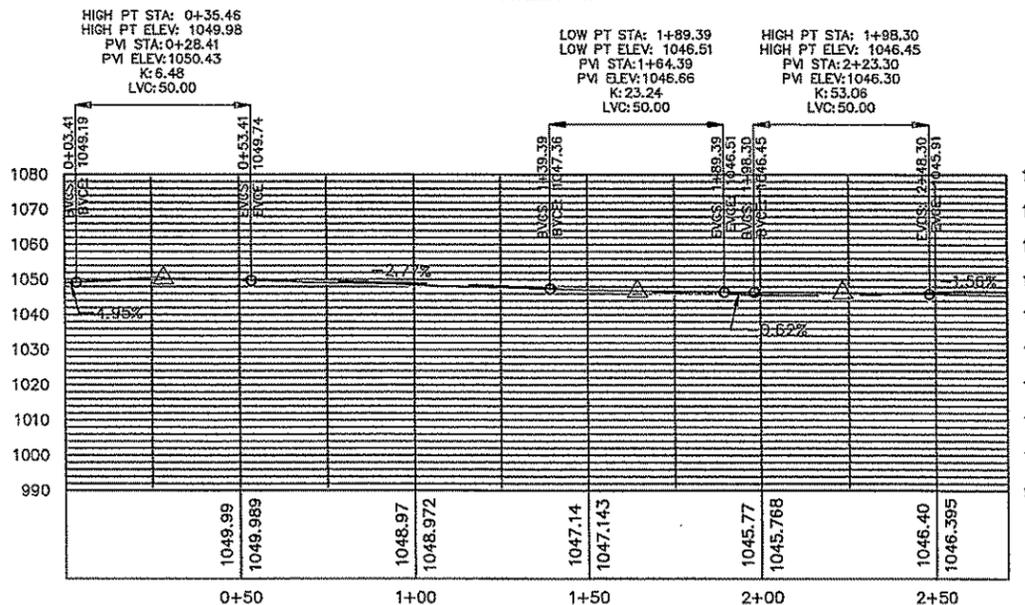
GRADING PLAN

SCALE: 1" = 30'



ACCESS ROAD PROFILE

SCALE: 1" = 50'



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SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164

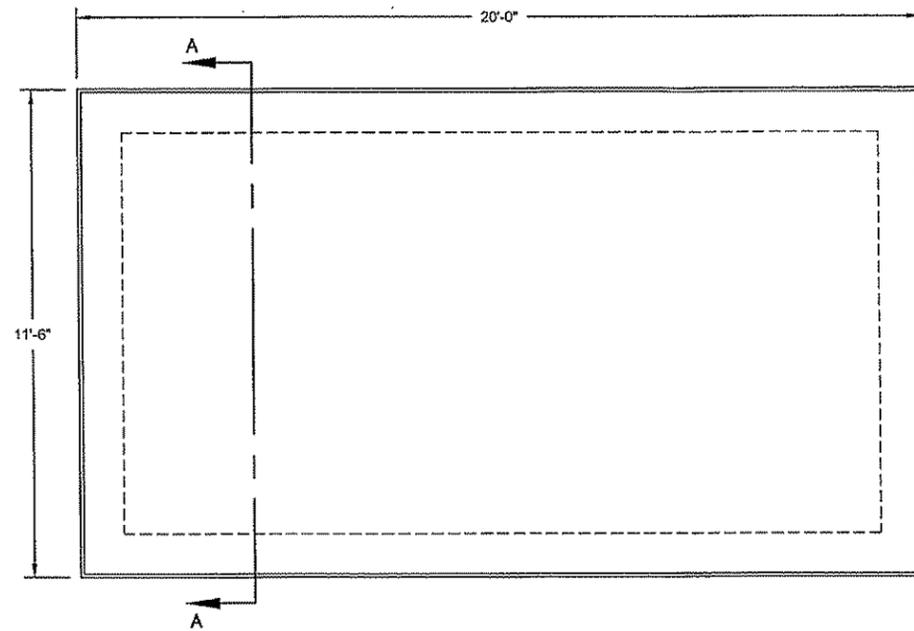


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2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW

SCALE: AS SHOWN DESIGNED BY: WKM DRAWN BY: WKM

CINGULAR WIRELESS	
GRADING PLAN	
DRAWING NUMBER	REV
24782-421	WV-306-05 3

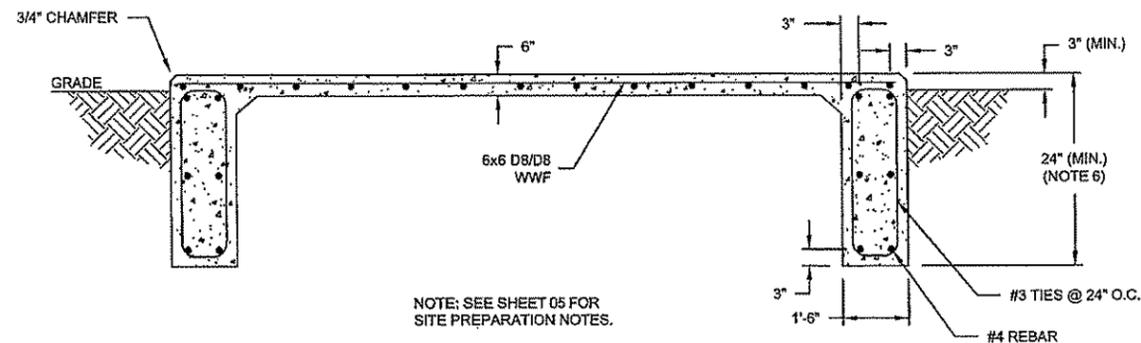
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SLAB FOUNDATION
NTS

NOTES:

1. CONCRETE STRENGTH SHALL BE A MINIMUM OF 4000 PSI.
2. SLAB TO BE LEVEL AND FLAT.
3. FOOTING SHALL EXTEND TO DEPTH SHOWN OR BEAR ON SOLID ROCK IF ENCOUNTERED DURING EACAVATION.



NOTE: SEE SHEET 05 FOR
SITE PREPARATION NOTES.

SECTION "A-A"



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS

FOUNDATION DETAILS

DRAWING NUMBER		REV
24782-421	WV-306-06	3

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NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

SITE WORK GENERAL NOTES:

DETAIL 619

NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

STRUCTURAL STEEL NOTES:

DETAILS 620

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALL3/4 IN.
 BEAMS AND COLUMNS.....1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

CONCRETE AND REINFORCING STEEL NOTES 102

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - BECHTEL
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - CINGULAR
 OEM - ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
 ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 24782-000-3APS-A00Z-00002, "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF CINGULAR GSM SITES."

DETAIL 623

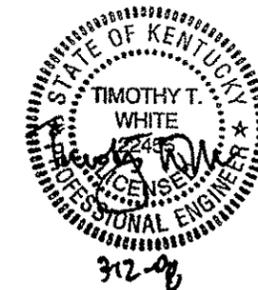
ABBREVIATIONS

- AGL ABOVE GRADE LEVEL
- BTS BASE TRANSCIVER STATION
- (E) EXISTING
- MIN MINIMUM
- N.T.S. NOT TO SCALE
- REF REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MGB MASTER GROUND BUS
- EG EQUIPMENT GROUND
- BCW BARE COPPER WIRE
- SIAD SMART INTEGRATED ACCESS DEVICE
- GEN GENERATOR
- IGR INTERIOR GROUND RING (HALO)
- RBS RADIO BASE STATION

SYMBOLS

- SOLID GROUND BUS BAR
- SOLID NEUTRAL BUS BAR
- SUPPLEMENTAL GROUND CONDUCTOR
- 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- CHEMICAL GROUND ROD
- GROUND ROD
- DISCONNECT SWITCH
- METER
- CADWELD TYPE CONNECTION
- COMPRESSION TYPE CONNECTION
- GROUNDING WIRE

ABBREVIATIONS & SYMBOLS 112



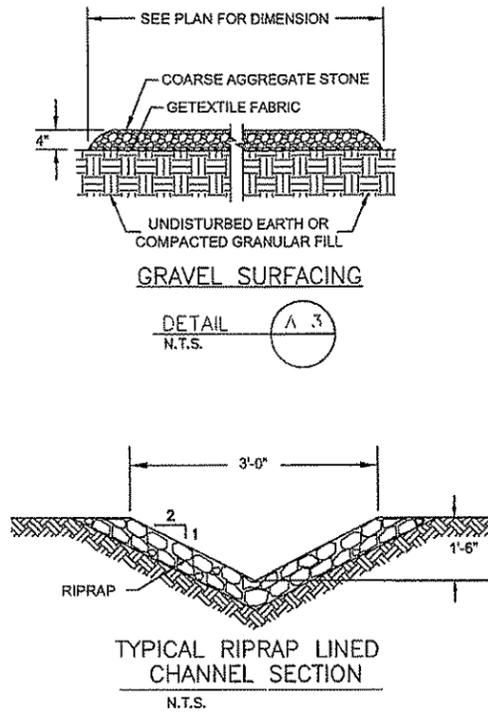
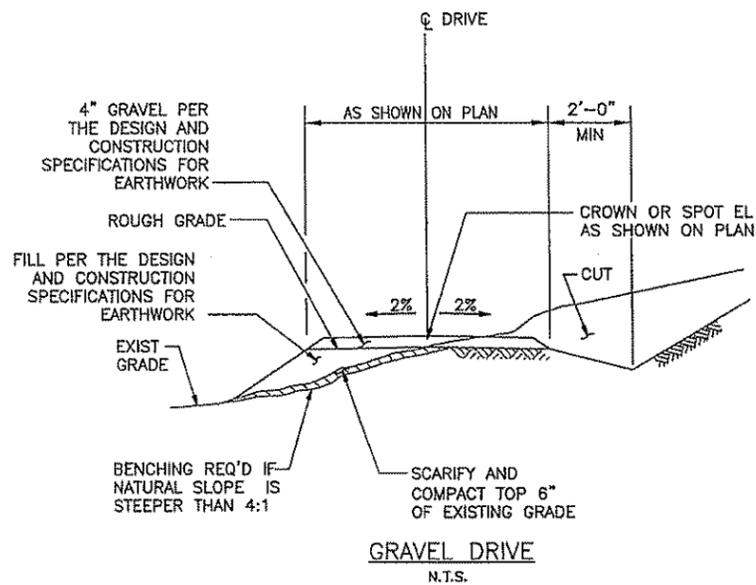
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SITE NO. WV306B
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 OLIVE HILL, KY 41164



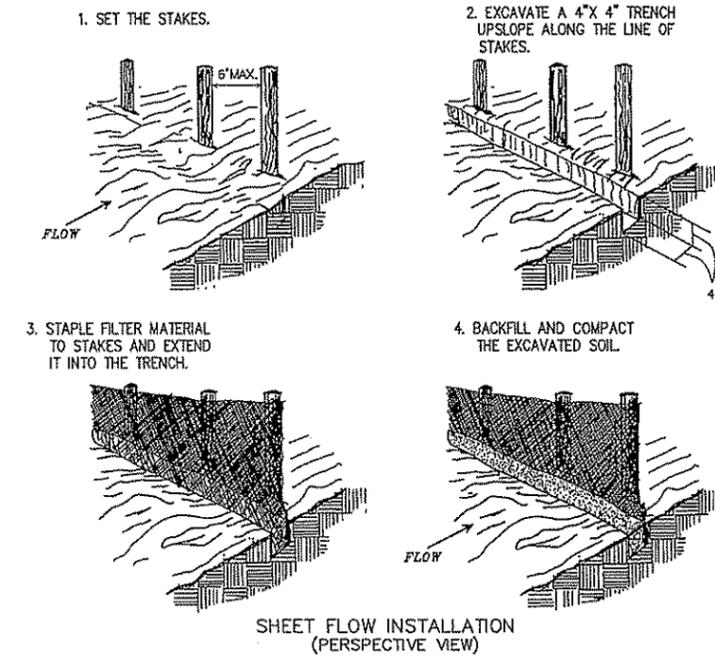
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CINGULAR WIRELESS		
CONSTRUCTION NOTES		
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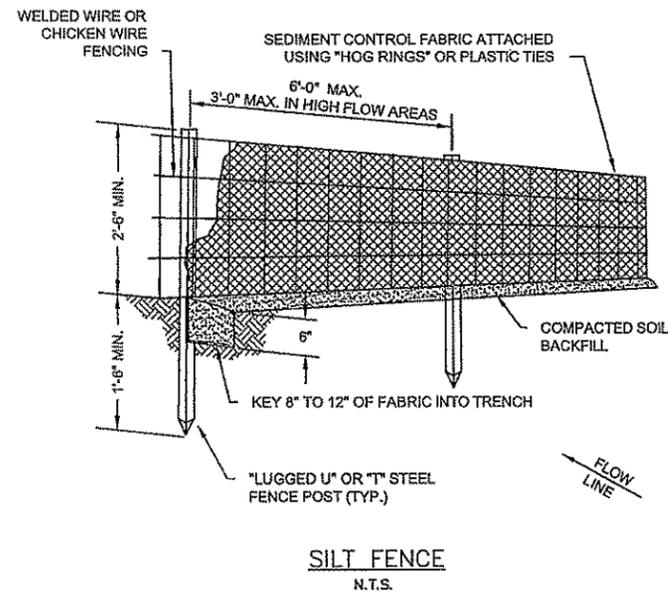


CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



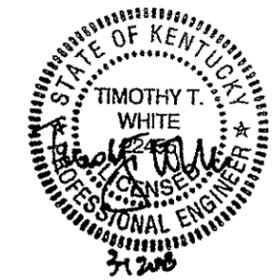
SOURCE: Adapted from *Installation of Straw and Fabric Filter Barriers for Sediment Control*, VRLA/EWC3.05-2, Sherwood and Wyant

DETAIL A 6
N.T.S.



SILT FENCE NOTES:

1. SILT FENCE IS A TEMPORARY SEDIMENTATION CONTROL MEASURE CONSISTING OF WOODEN OR OTHER FENCE POSTS, A SUPPORT SYSTEM AND A GEOTEXTILE FILTER FABRIC. SILT FENCE (1) REDUCES THE VELOCITY OF SHEET FLOW TO A NON-EROSIVE LEVEL, AND (2) RETAINS SUSPENDED SOIL PARTICLES FROM LEAVING THE CONSTRUCTION SITE.
 2. SILT FENCE MAY BE INSTALLED WHERE SHEET FLOW EROSION CONTROL AND SEDIMENTATION CONTROL ARE NECESSARY. SILT FENCE SHALL NOT BE USED WHERE CONCENTRATED FLOWS, SUCH AS DITCHES AND/OR SWALES, MAY DEVELOP.
 3. THE TYPE OF SILT FENCE SPECIFIED SHOULD BE CONSIDERED WHEN ATTEMPTING TO CONTROL SHEET FLOW EROSION AND SEDIMENTATION. A LOW QUALITY SILT FENCE MAY REQUIRE REPEATED INSTALLATIONS OF SEVERAL ROWS TO ACCOMPLISH THE TASK AT HAND. SPECIAL ATTENTION SHOULD BE GIVEN IN SELECTING THE PROPER SUPPORT SYSTEM AND THE GRADE OF GEOTEXTILE FILTER FABRIC.
 4. THE FIELD LOCATION SHOULD BE ADJUSTED, AS NEEDED TO PROVIDE THE MOST EFFECTIVE CONTROL OF SHEET FLOW EROSION AND SEDIMENTATION.
 5. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED TO INSURE THAT THE SILT FENCE CONTINUES TO OPERATE EFFICIENTLY.
 6. THE SILT FENCE GEOTEXTILE FILTER FABRIC SHALL BE REINFORCED WITH CONSTRUCTION HARDWARE CLOTH, STRAW BALES OR APPROVED EQUAL, IF THE SPECIFIED SILT FENCE FAILS UNDER MODERATE RAIN STORMS. A MAXIMUM SPACING OF 6" BETWEEN SUPPORTING FENCE POSTS SHALL BE SPECIFIED. THE GEOTEXTILE FILTER FABRIC SHALL BE FASTENED TO THE SUPPORTING FENCE POSTS ON THE UPHILL SIDE OF THE SLOPE.
 7. BEFORE USING SILT FENCE AS A PERIMETER SEDIMENTATION CONTROL MEASURE, CONSIDERATION SHOULD BE GIVEN TO THE USE OF EXISTING VEGETATIVE BUFFER ZONES.
- INSTALL ALONG A CONTOUR LINE, OF EQUAL ELEVATION ON A SLOPE WHERE SHEET FLOW MAY DEVELOP. A MAXIMUM SHEET FLOW PATH OF 100 FEET TO THE SILT FENCE SHALL BE SPECIFIED. MULTIPLE ROWS OF SILT FENCE TO BE SPACED NO GREATER THAN 100 FEET. SILT FENCE IN GENERAL WILL FAIL UNDER THE STRESS OF CONCENTRATED FLOWS. MAINTAIN 2:1 MAXIMUM SLOPE TO SILT FENCE.



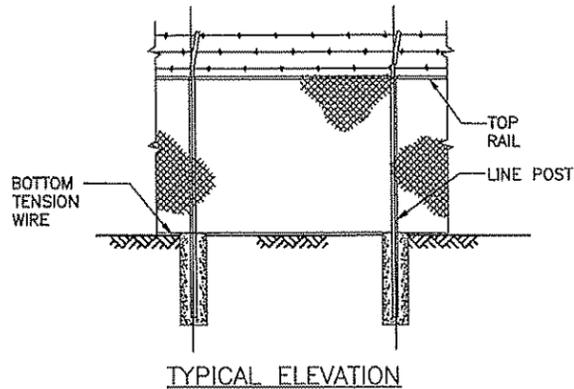
TERRADON
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164

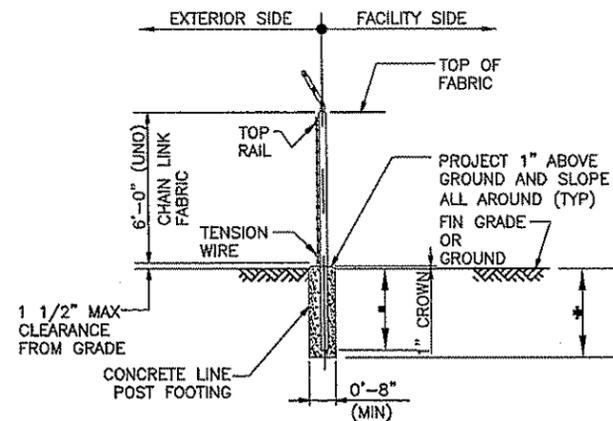


3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	08/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS	
SILT FENCE DETAILS	
DRAWING NUMBER	REV
24782-421	WV-306-08 3

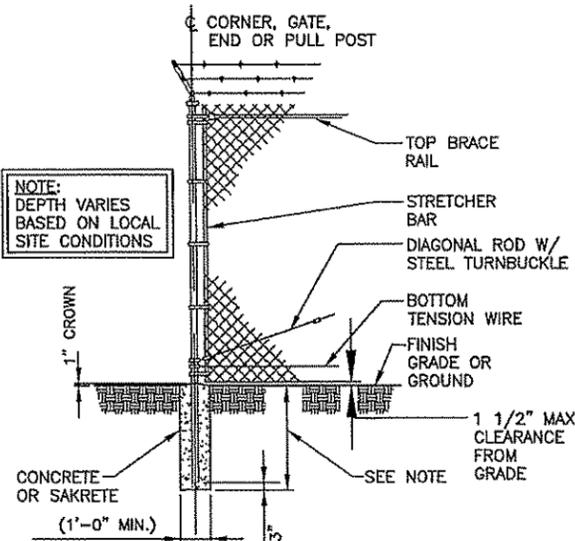


NOTE:
DEPTH VARIES BASED ON LOCAL
SITE CONDITIONS.



TYPICAL SECTION
WOVEN WIRE FENCE

DETAIL 626
NTS



NOTE:
DEPTH VARIES BASED ON LOCAL
SITE CONDITIONS

NOTE: FOR NOTES SEE DETAIL 629

WOVEN WIRE CORNER, GATE,
END OR PULL POST

DETAIL 627
NTS

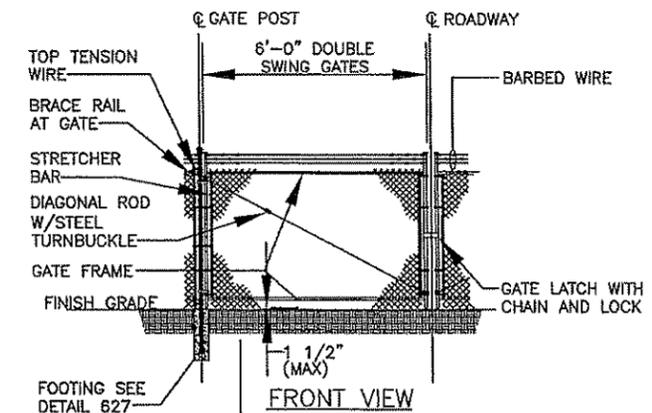
NOTES:

(INSTALL FENCING PER ASTM F-567, SWING GATES PER ASTM F- 900)

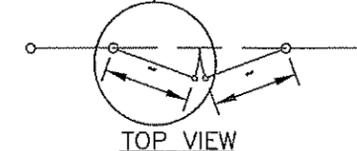
1. GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 7/8"Ø SCHEDULE 40 FOR GATE WIDTHS UP THROUGH 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2-3/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/4"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 9 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392 CLASS 1.
6. TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS.
7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
8. BARBED WIRE: 3 STRANDS OF DOUBLE STRANDED 12-1/2 GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
9. GATE LATCH: 1-3/8" O.D. PLUNGER ROD W/ MUSHROOM TYPE CATCH AND LOCK (KEYED ALIKE FOR ALL SITES OR COMBINATION AS SPECIFIED BY CINGULAR).
10. LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
11. HEIGHT = 6' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.
12. ALL WORK SHALL CONFORM WITH THE PROJECT SPECIFICATIONS.

WOVEN WIRE FENCING NOTES

DETAIL 629
NTS

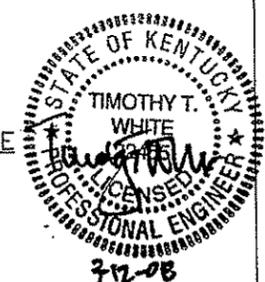


NOTE: SEE DETAIL 629 FOR NOTES.



WOVEN WIRE SWING GATE, DOUBLE

DETAIL 638
NTS



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SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
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1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS	
FENCE DETAILS AND NOTES	
DRAWING NUMBER	REV
24782-421	WV-306-09 3

ELECTRICAL INSTALLATION NOTES

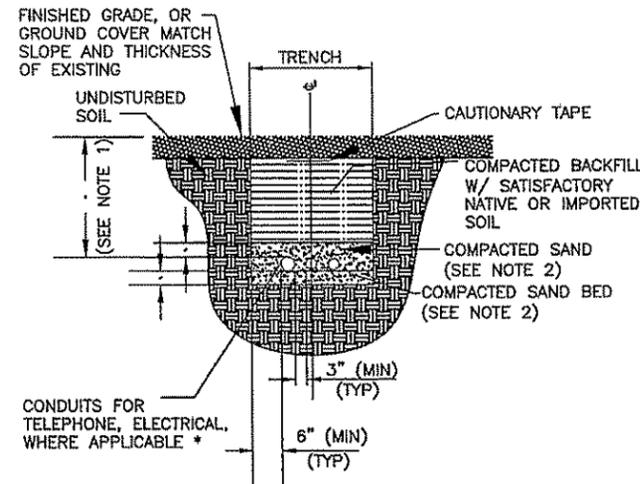
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
- CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
- WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
- ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
- CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
- ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
- PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
- ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
- POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
- ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
- RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
- GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
- RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
- CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
- WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

ELECTRICAL INSTALLATION NOTES (cont.)

- EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS
- METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

DETAIL 622

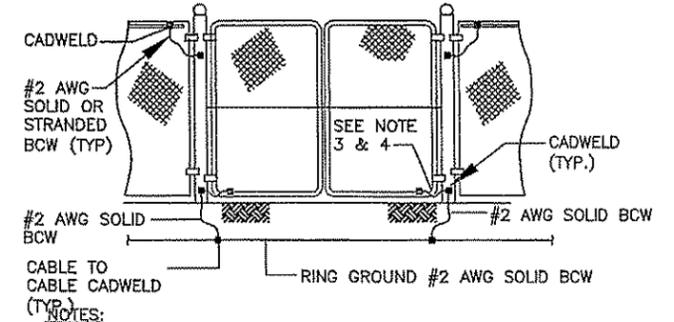
- NOTES: 1. ENGINEER SHALL DETERMINE DEPTH "D" BASED UPON NATIONAL ELECTRICAL CODE, UTILITY REQUIREMENTS OR STATE AND LOCAL CODES.
2. LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.



* CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

DIRECT BURIED CONDUIT

DETAIL 105



NOTES:

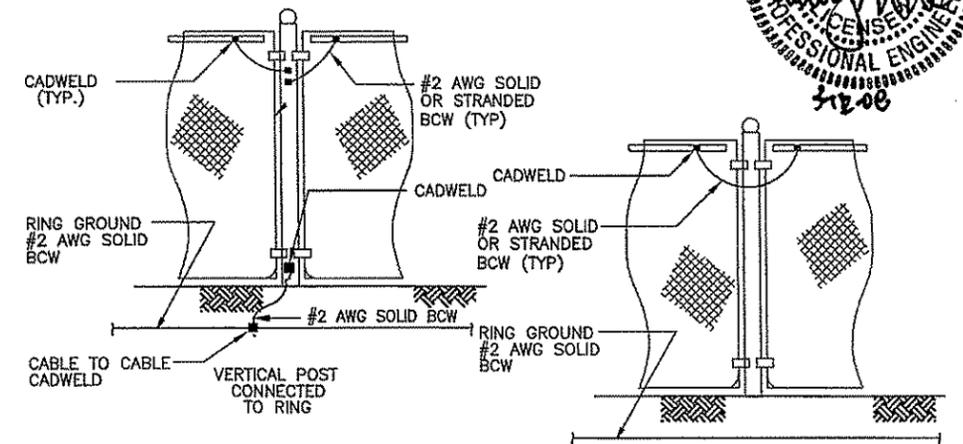
- THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.
- BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING
- GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNDY TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
- GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.

FENCE GATE GROUNDING

DETAIL 630

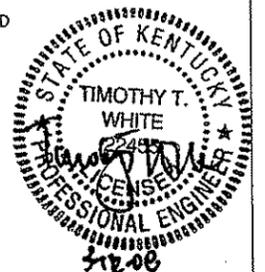
NOTE:

- VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FOOT STRAIGHT RUN OF FENCE.
- HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.
- BOND EACH HORIZONTAL POLE / BRACE TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING



FENCE GROUNDING

DETAIL 631



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SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

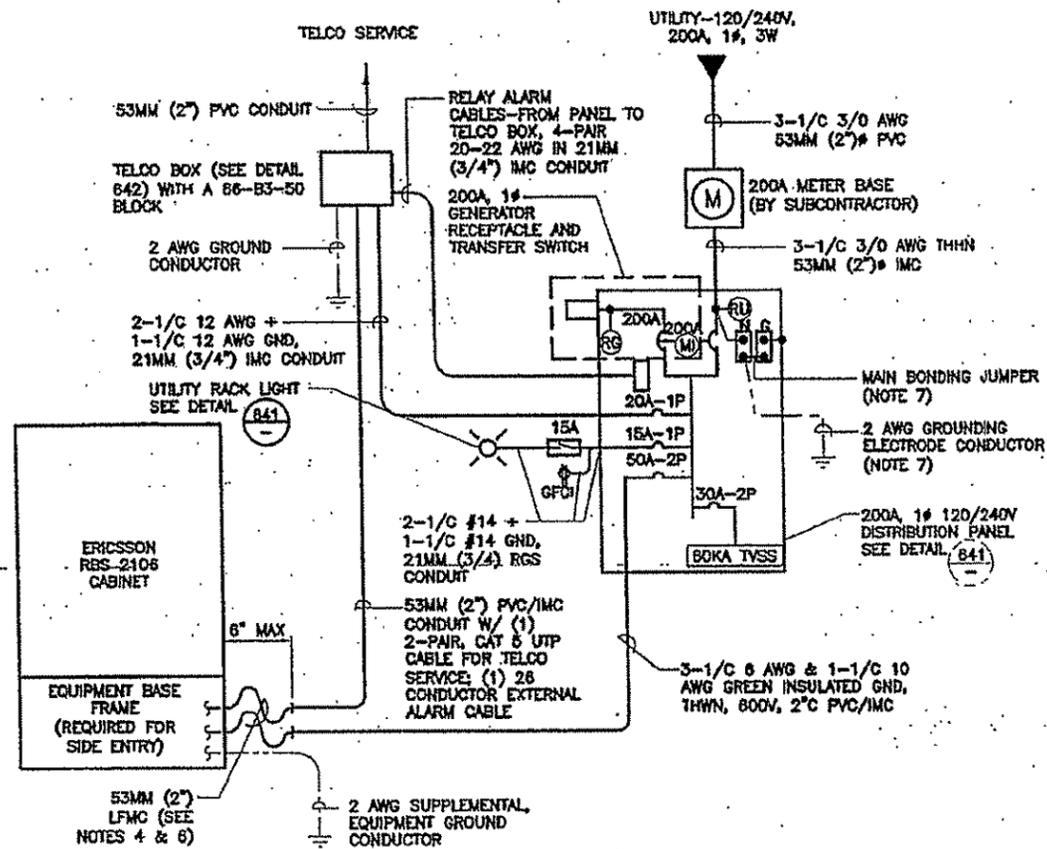
CINGULAR WIRELESS

ELECTRICAL NOTES AND DETAILS

DRAWING NUMBER		REV
24782-421	WV-306-10	3

NOTES:

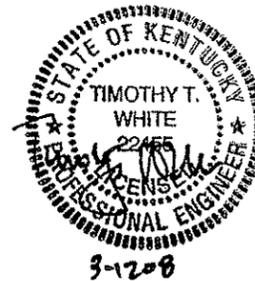
1. SUBCONTRACTOR SHALL PROVIDE 200AMP, SINGLE PHASE, 120/240 VAC, 60HZ SERVICE FOR SITE.
2. SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS.
3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.
4. SUBCONTRACTOR SHALL INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
5. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
6. CUT, COIL AND TAPE A 3 FOOT PITGAL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
7. SUBCONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY WHEN PANEL IS SERVICE ENTRANCE EQUIPMENT.



POWER & TELEPHONE SINGLE-LINE DIAGRAM

DETAIL 643-VA
NTS

LEGEND:
MI = MECHANICAL INTERLOCK
RU = RELAY TO MONITOR UTILITY POWER
RG = RELAY TO MONITOR GENERATOR POWER



NOTES:

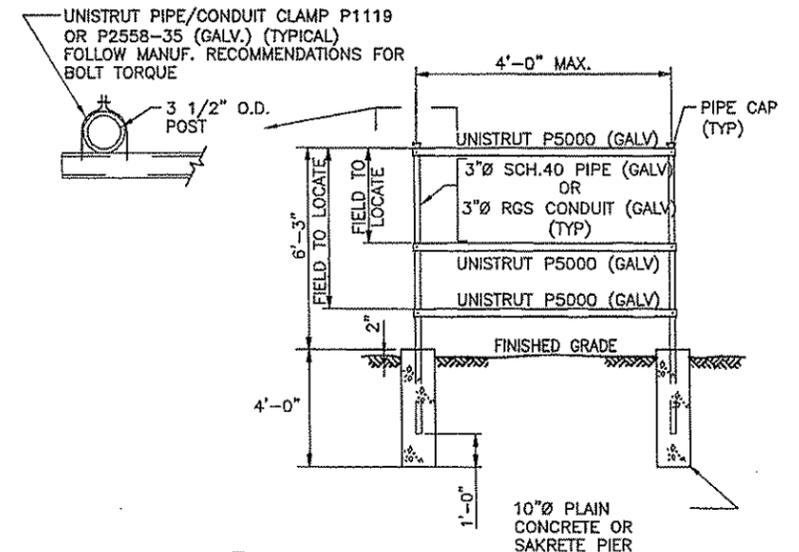
1. COORDINATE WITH LOCAL TELCO UTILITY PRIOR TO PROCURING AND INSTALLATION OF BOX AND COMPONENTS.
2. ALL MATERIAL SHALL MEET REQUIREMENTS OF LOCAL TELCO UTILITY.
3. ITEM #4 SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. BOND SURGE PROTECTION UNIT TO GROUND BAR WITH #6 AWG INSULATED WIRE.
4. COORDINATE SIZE, TYPE AND QUANTITY OF ITEM(S) #5 WITH LOCAL UTILITY.
5. INSTALL ITEM #6 ONLY IF REQUIRED BY UTILITY. RECEPTACLE POWERED FROM SPARE BREAKER IN DISTRIBUTION PANEL.
6. PULL 6 PAIR ICKY PICK CABLES FROM HOFFMAN TELCO BOX TO SHELTER TELCO BOARD.

MATERIAL LIST:

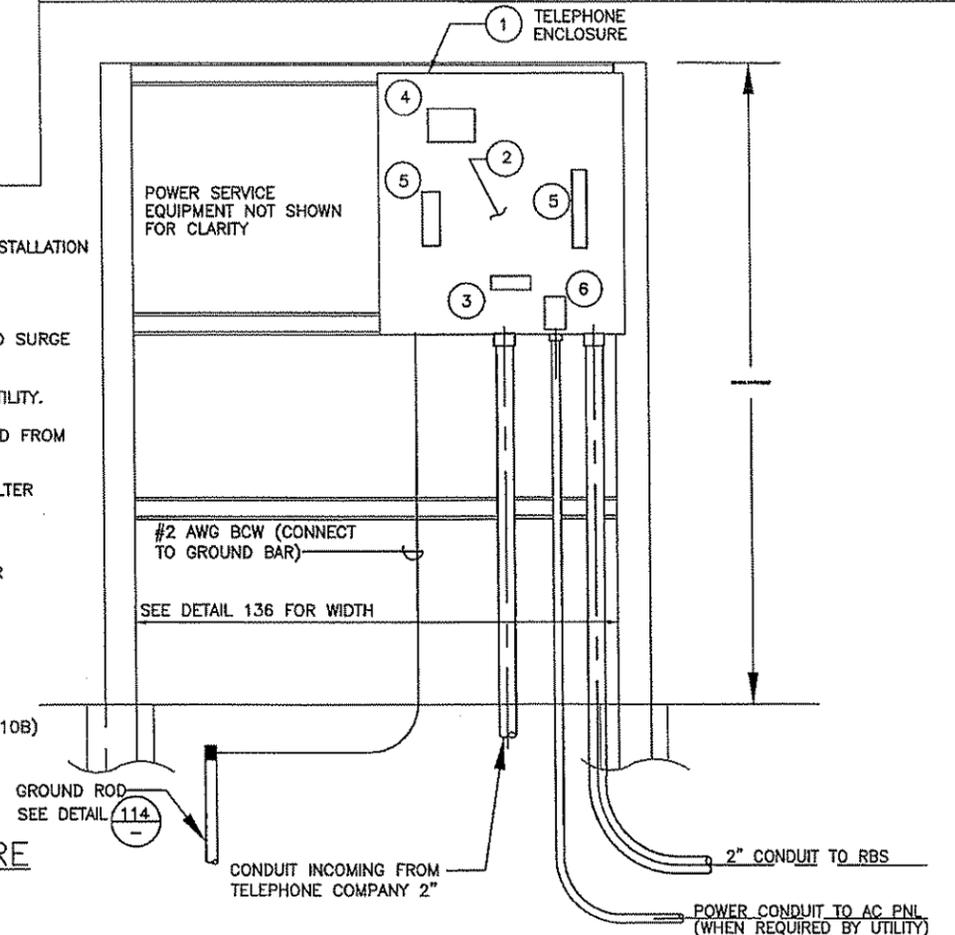
- ① 20" X 20" X 8" NEMA 3R ENCLOSURE (HOFFMAN A-20R208HCR OR SIMILAR)
- ② PLYWOOD BACKBOARD 18" X 18" X 5/8" THICK EXTERIOR GRADE
- ③ GROUNDING BAR (1/4"x4"x10") NEWTON INSTRUMENT CO. CAT NO. B-6142 OR EQUAL WITH A-6164 WALL BRACKET
- ④ T1 SURGE PROTECTION DEVICE (USE AC DATA SYSTEMS PART #TJ1010B)
- ⑤ TERMINAL BLOCK(S) OR T1 CONNECTOR(S)
- ⑥ GFI DUPLEX RECEPTACLE (120VAC/20A)

TELEPHONE DEMARCATION ENCLOSURE

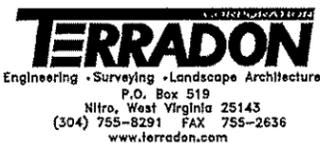
DETAIL 642
11



DETAIL 136
NTS 03/09/12
METER AND DISCONNECT SWITCH MOUNTING RACK



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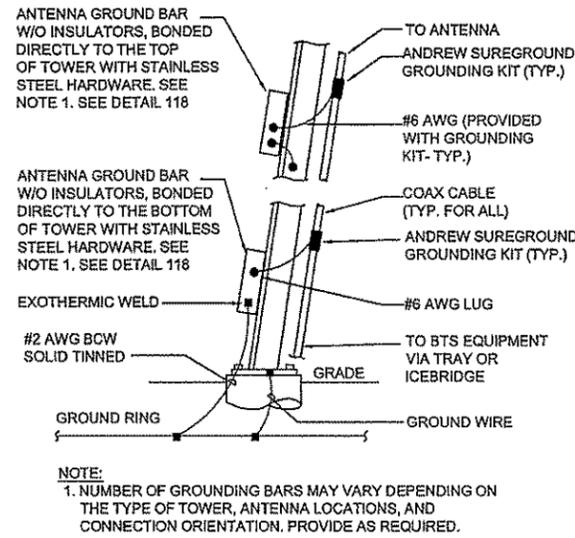
SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
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OLIVE HILL, KY 41164



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SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

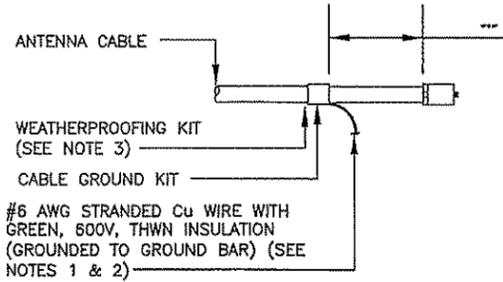
CINGULAR WIRELESS	
SINGLE LINE DIAGRAM AND DETAILS	
DRAWING NUMBER	REV
24782-421	WV-306-11 3

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ANTENNA CABLE GROUNDING - SELF SUPPORTING TOWER

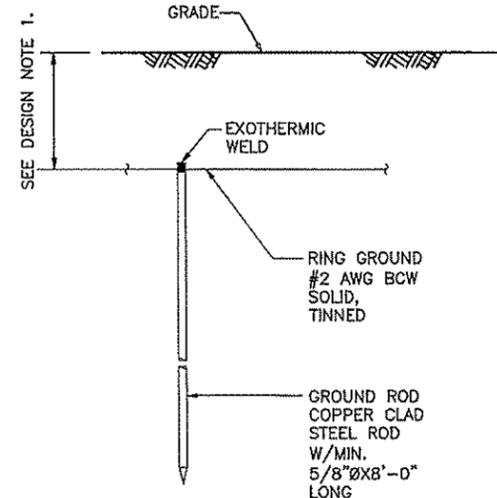
DETAIL 152
NTS 12



CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE

- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
 - WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

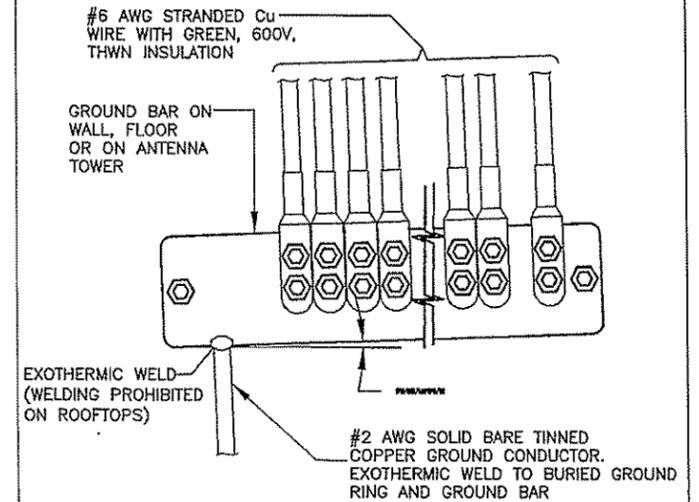
DETAIL 121
NTS 12



GROUND ROD

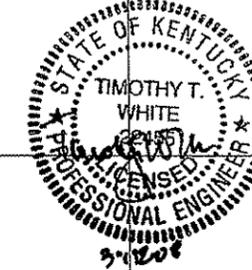
DETAIL 114
NTS 12

- DESIGNER/ENGINEER TO DETERMINE DIMENSION WHICH SHALL BE THE BELOW THE FROST LINE OR 18" MINIMUM.
- GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.



INSTALLATION OF GROUND WIRE TO COAX CABLE GROUND BAR

DETAIL 118
NTS -



NEWTON INSTRUMENT COMPANY, INC. BUTNER, N.C.			
NO.	REQ.	PART NO.	DESCRIPTION
1	1	1/4"x4"x30"	PRE DRILLED GND. BAR
2	2	A-6056	WALL MTG. BRKT.
3	2	3061-4	INSULATORS
4	4	3012-1	5/8"-11x1" H.H.C.S.
5	4	3015-8	5/8 LOCKWASHER

EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PROTECTORS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELCO GROUND BAR (#2)
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.
- COAX SUPPRESSION

SECTION "A" - SURGE ABSORBERS

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

SECTION "I" - ISOLATED GROUND ZONE

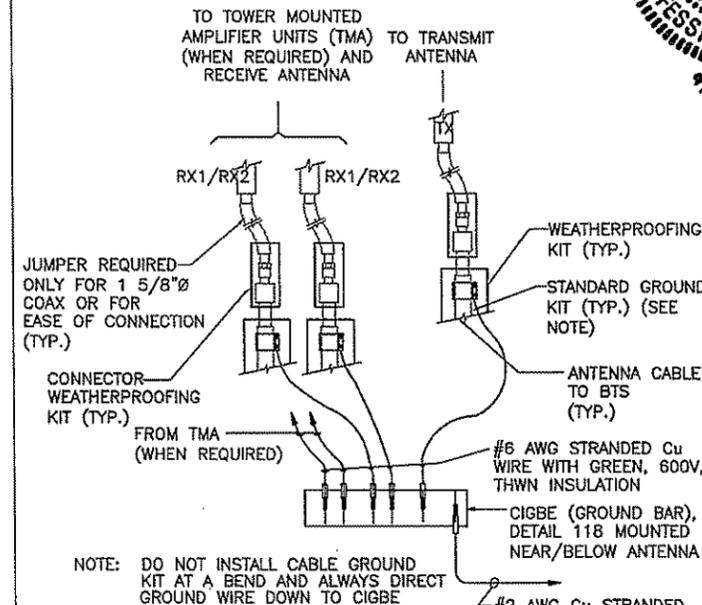
- ALL COMMUNICATIONS EQUIPMENT FRAMES.
- ISOLATED GROUND BAR - IGB (#2)

DETAIL NOTES: ○

- EXOTHERMICALLY WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "I") WITH 1" HIGH LETTERS.

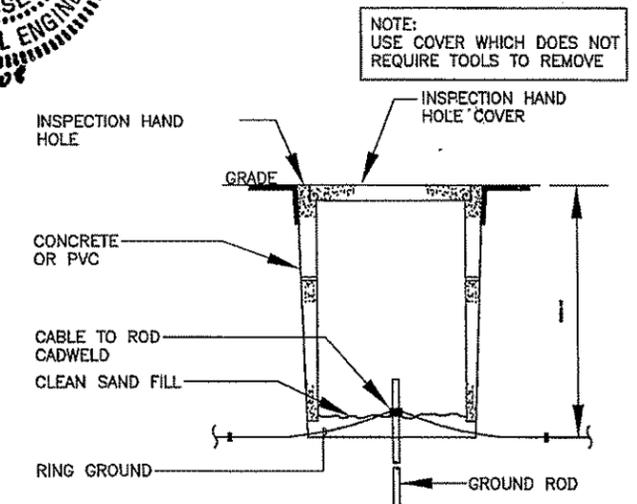
(RGB) REFERENCE GROUND BAR - DETAIL

DETAIL 119
NTS -



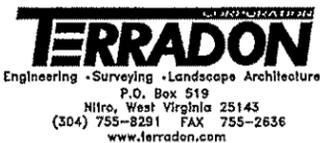
CONNECTION OF GROUND WIRE TO GROUNDING BAR (CIGBE) TOWER/MONOPOLE/ROOFTOP

DETAIL 122
NTS -



GROUND ROD WITH ACCESS AREA

DETAIL 644-VA
NTS -



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



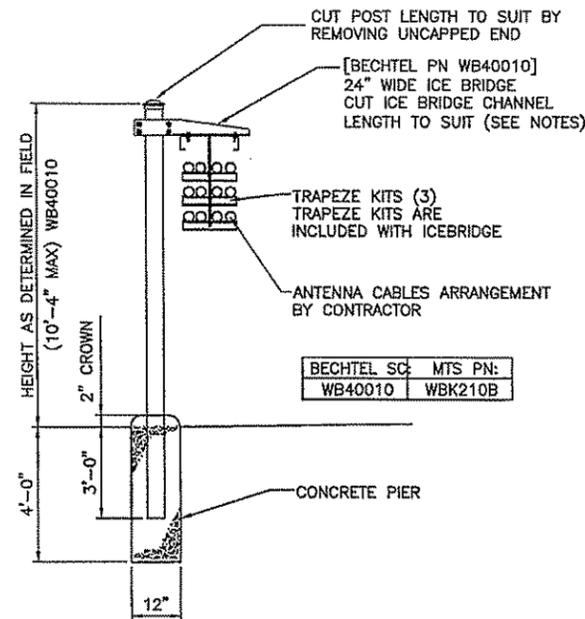
NO.	DATE	REVISIONS	BY	CHK	APP'D
3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW

SCALE: AS SHOWN DESIGNED BY: WKM DRAWN BY: WKM

DRAWING NUMBER		REV
24782-421	WV-306-12	3

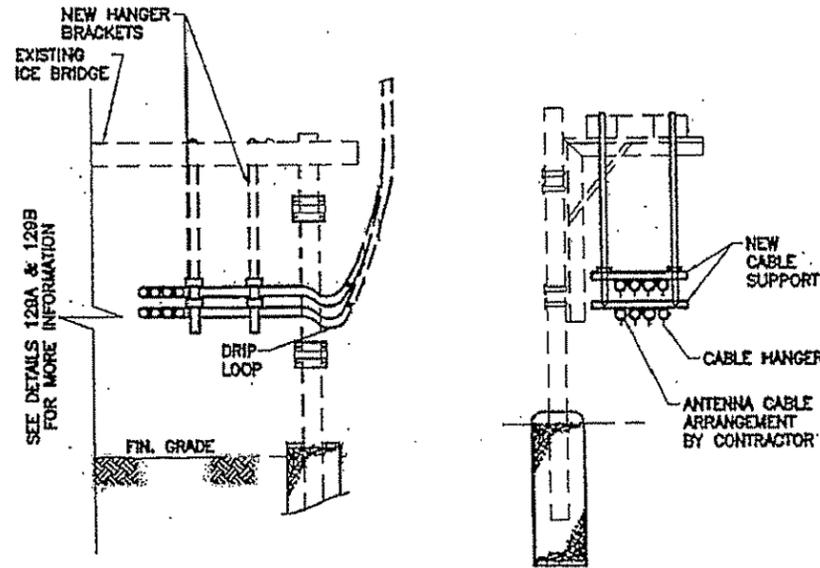
NOTES:

1. WHEN USING COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 9 FEET FOR 10 FEET BRIDGE CHANNEL.
2. WHEN USING COMPONENTS FOR SPlicing BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
3. WHEN USING COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
4. CUT BRIDGE CHANNEL SECTIONS SHALL HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THESE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM OTHER MANUFACTURERS, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
6. DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
7. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS REQUIRE ENGINEERING APPROVAL.
8. THE DESIGN IS BASED ON ASCE 7-98, 3 SECOND GUST WIND SPEED OF 110 MPH, EXPOSURE C, ELEVATION AT GRADE.
9. THIS DESIGN IS BASED ON 24" WIDE ICE BRIDGE AND (12) 1 5/8" DIA COAX CABLES AND MAX. SUPPORT POST SPACING OF 10'-0".



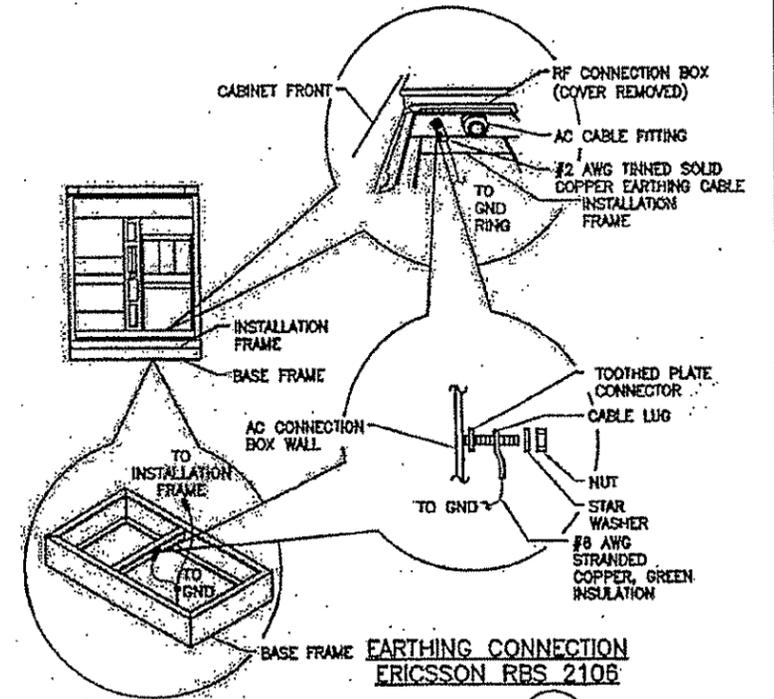
24" x 10' ICE BRIDGE W/ BURIAL POST

DETAIL 155A
NTS



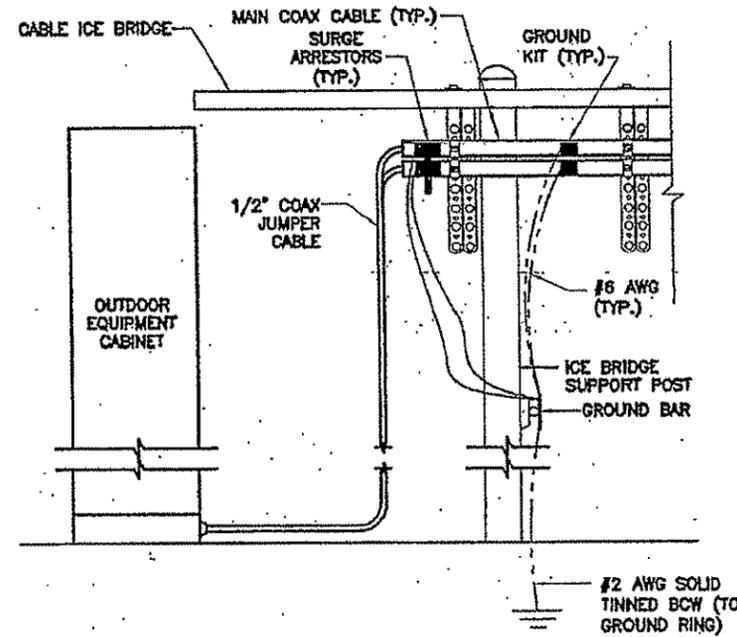
ICE BRIDGE AT OUTDOOR EQUIPMENT CABINETS

DETAIL 129
NTS



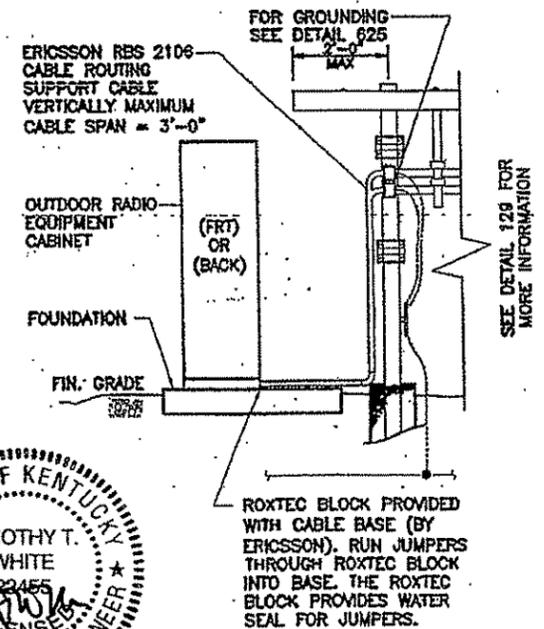
EARTHING CONNECTION ERICSSON RBS 2106

DETAIL 426
NTS

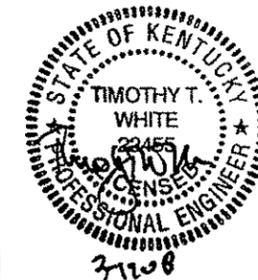


ANTENNA CABLE GROUNDING & SURGE ARRESTORS AT OUTDOOR EQUIPMENT CABINETS

DETAIL 625-VA
NTS



DETAIL 129A-VA
NTS



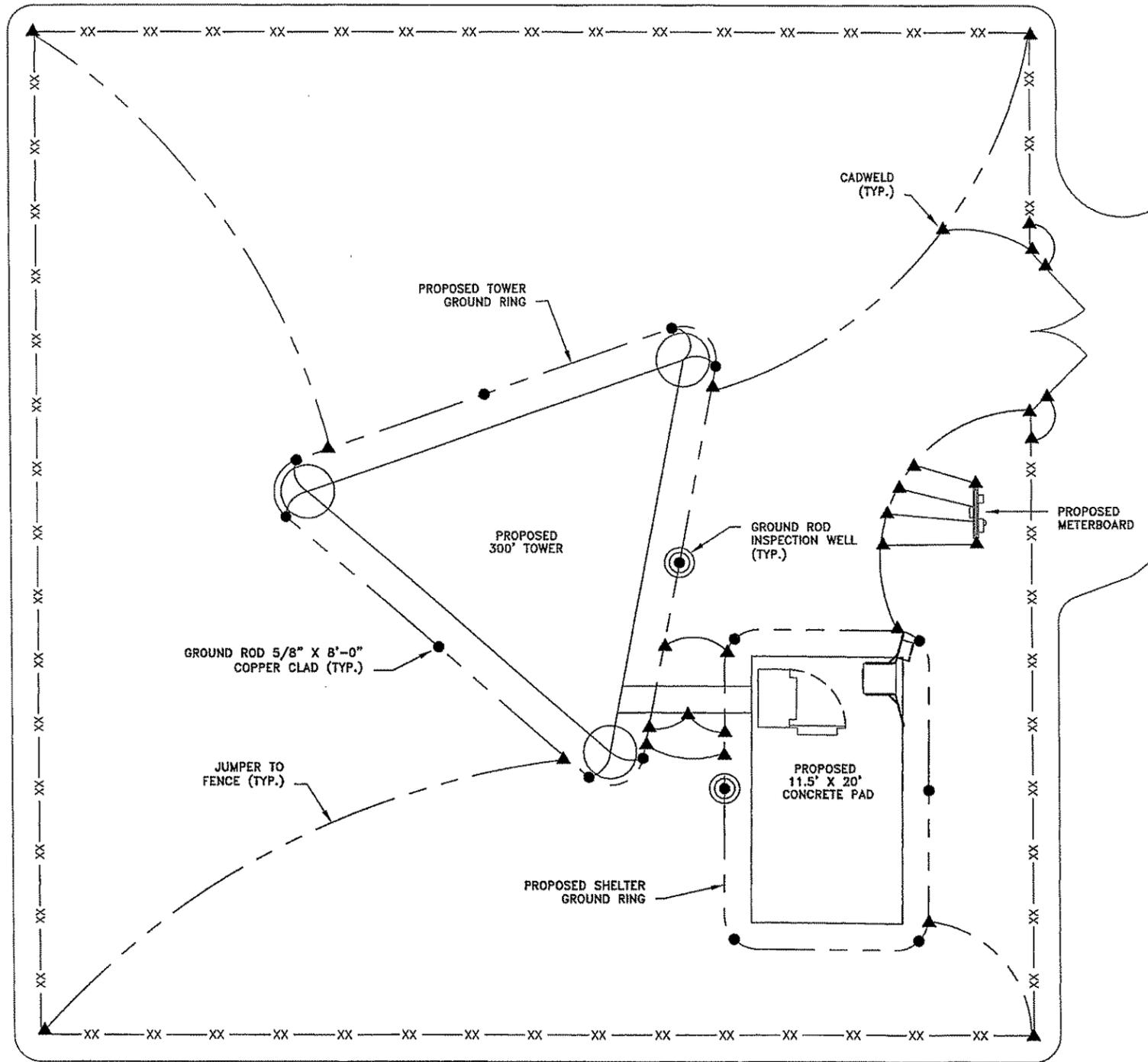
SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY CHK APP'D		
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS		
GROUNDING DETAILS		
DRAWING NUMBER		REV
24782-421	WV-306-13	3

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GROUNDING PLAN

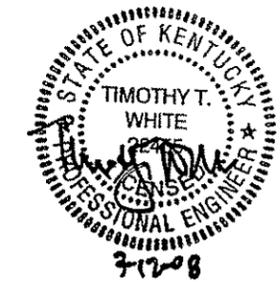
SCALE: 1" = 10'



GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

DETAIL 621



TERRADON
 Engineering • Surveying • Landscape Architecture
 P.O. Box 519
 Nitro, West Virginia 25143
 (304) 755-8291 FAX 755-2656
 www.terradon.com

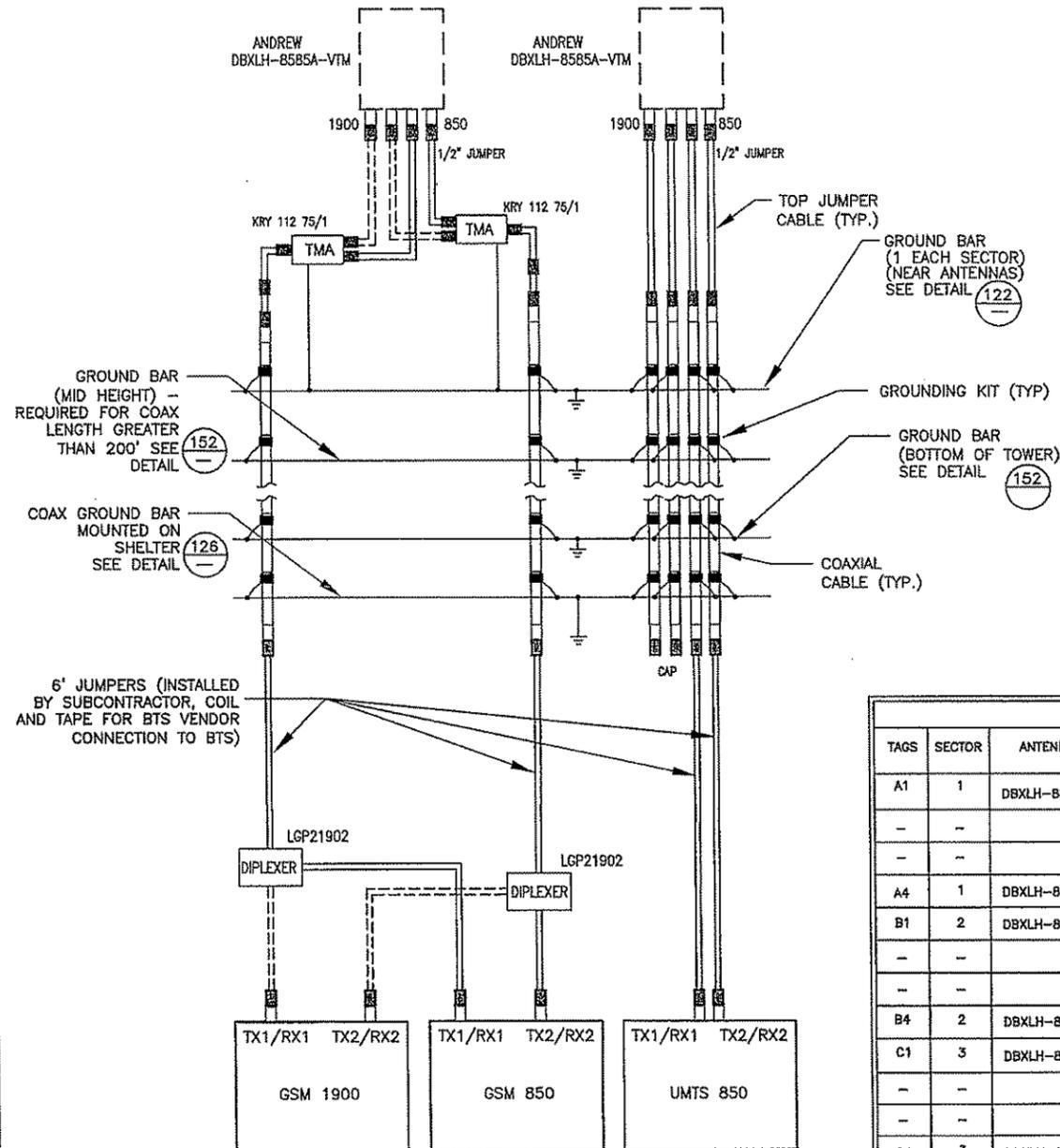
SITE NAME: BLUEBERRY RIDGE
 SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164



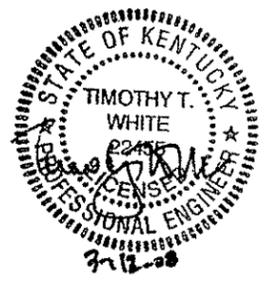
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2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS	
GROUNDING PLAN AND NOTES	
DRAWING NUMBER	REV
24782-421	3
WV-306-14	

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- NOTES:**
1. ALL MATERIALS ON THE ABOVE TABLE SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUBCONTRACTOR FOR INSTALLATION.
 2. SUBCONTRACTOR SHALL AS-BUILT CABLE LENGTHS AND PROVIDE ANTENNA SERIAL NUMBERS ON RED-LINED DRAWINGS.
 3. ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWNTILT BRACKETS AND HEAVY DUTY CLAMPS SUPPLIED BY ANTENNA MANUFACTURER.
 4. FOLLOW DETAIL FOR CINGULAR COAX COLOR CODING.
 5. COAX GROUND KITS, COAX WEATHER PROOFING, SNAP-IN HANGER CLAMPS AND HOISTING GRIPS SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUBCONTRACTOR FOR INSTALLATION.
 6. DESIGN AS PER RF BUILD SHEET (PRELIMINARY) ISSUED 06/06/07



TAGS	SECTOR	ANTENNA TYPE	ANTENNA SERIAL NUMBER	MECH DOWN TILT	ELEC DOWN TILT	AZIMUTH	ANTENNA		CABLE LENGTH	COAXIAL CABLE	TOP JUMPER	BOTTOM JUMPER	COLOR CODE	TMA TYPE	DC BLOCK Y/N	DIPLEXER
							RAD CTR	TIP HEIGHT								
A1	1	DBXLH-8585A-VTM		0°	2°	0°	290			(2)-ANDREWS 1-5/8"	(6') 1/2Ø LDF4P	(6') 1/2Ø SF	1 GREEN STRIPE 2 GREEN STRIPES	KRY112 75/1	N	LGP 21902
-	-			-	-	-	-			(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
-	-			-	-	-	-			(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
A4	1	DBXLH-8585A-VTM		0°	2°	0°	290			(2)-ANDREWS 1-5/8"	(6') 1/2Ø LDF4P	(6') 1/2Ø SF	3 GREEN STRIPES 4 GREEN STRIPES	KRY112 75/1	N	LGP 21902
B1	2	DBXLH-8585A-VTM		0°	2°	120°	290			(2)-ANDREWS 1-5/8"	(6') 1/2Ø LDF4P	(6') 1/2Ø SF	1 BLUE STRIPE 2 BLUE STRIPES	KRY112 75/1	N	LGP 21902
-	-			-	-	-	-			(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
-	-			-	-	-	-			(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
B4	2	DBXLH-8585A-VTM		0°	2°	120°	290			(2)-ANDREWS 1-5/8"	(6') 1/2Ø LDF4P	(6') 1/2Ø SF	3 BLUE STRIPES 4 BLUE STRIPES	KRY112 75/1	N	LGP 21902
C1	3	DBXLH-8585A-VTM		0°	2°	240°	290			(2)-ANDREWS 1-5/8"	(6') 1/2Ø LDF4P	(6') 1/2Ø SF	1 WHITE STRIPE 2 WHITE STRIPES	KRY112 75/1	N	LGP 21902
-	-			-	-	-	-			(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
-	-			-	-	-	-			(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
C4	3	DBXLH-8585A-VTM		0°	2°	240°	290			(2)-ANDREWS 1-5/8"	(6') 1/2Ø LDF4P	(6') 1/2Ø SF	3 WHITE STRIPES 4 WHITE STRIPES	KRY112 75/1	N	LGP 21902

2 - ANTENNAS PER SECTOR CONFIGURATION
 DETAIL 019-WV NTS



SITE NAME: BLUEBERRY RIDGE
 SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CGP	TTW
1	09/14/07	ISSUED	WKM	CGP	TTW
0	06/07/07	PRELIMINARY	WKM	CGP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS	
ANTENNA CONFIGURATION AND SCHEDULE	
DRAWING NUMBER	REV
24782-421	WV-306-15 3

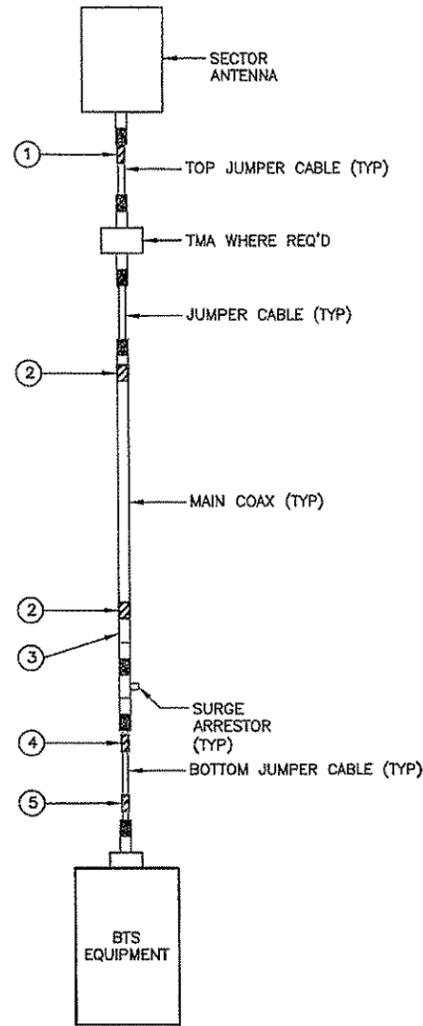
NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION TO REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES—RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND SLATE(GREY). THESE TAPES SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.
- ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND SHALL BE A MINIMUM OF 3/4" WIDE.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.

ALL RF CABLE SHALL BE MARKED AS PER CABLE MARKING LOCATIONS TABLE BELOW:

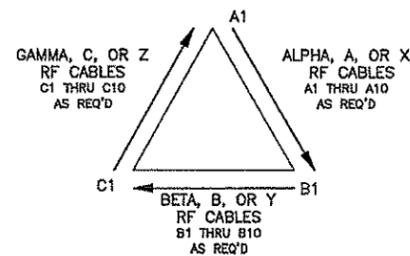
CABLE MARKING LOCATIONS TABLE			
NO.	TAPE	TAG	LOCATIONS
1.	X		EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2.	X		EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
3.		X	CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER. (IF SHELTER IS USED)
4.	X		ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5.	X		BASE OF TOWER
6.	*	*	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

(* -- DENOTES TAG OR TAPE.)



CABLE MARKING LOCATIONS DIAGRAM

DETAIL 636-VA
NTS



ANTENNA SECTOR AND CABLE DEFINITION

CABLE MARKING COLOR TABLE						
SECTOR	CABLE A1	CABLE A2	CABLE A3	CABLE A4	CABLE A5	CABLE A6
SECTOR ALPHA, A, X	1 GREEN	2 GREEN	3 GREEN	4 GREEN	5 GREEN	6 GREEN
SECTOR BETA, B, Y	1 BLUE	2 BLUE	3 BLUE	4 BLUE	5 BLUE	6 BLUE
SECTOR GAMMA, C, Z	1 WHITE	2 WHITE	3 WHITE	4 WHITE	5 WHITE	6 WHITE

COAXIAL LADDER ASSIGNMENT

9 x 9 STACKED APPLICATION

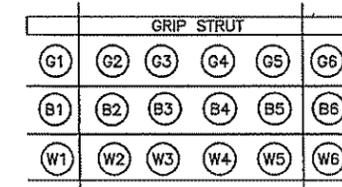
LEFT TO RIGHT FACING LADDER (1ST LAYER AGAINST LADDER)



LEFT TO RIGHT FACING LADDER (OUTSIDE LAYER)



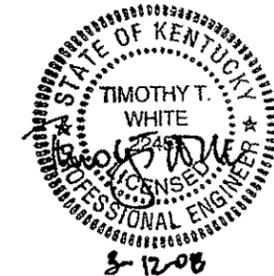
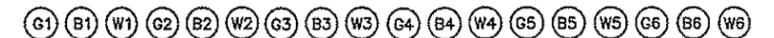
COAXIAL ORIENTATION ON TRAPEZE



COAXIAL LADDER ASSIGNMENT

NOT STACKED APPLICATION

LEFT TO RIGHT (FACING TOWER)



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SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



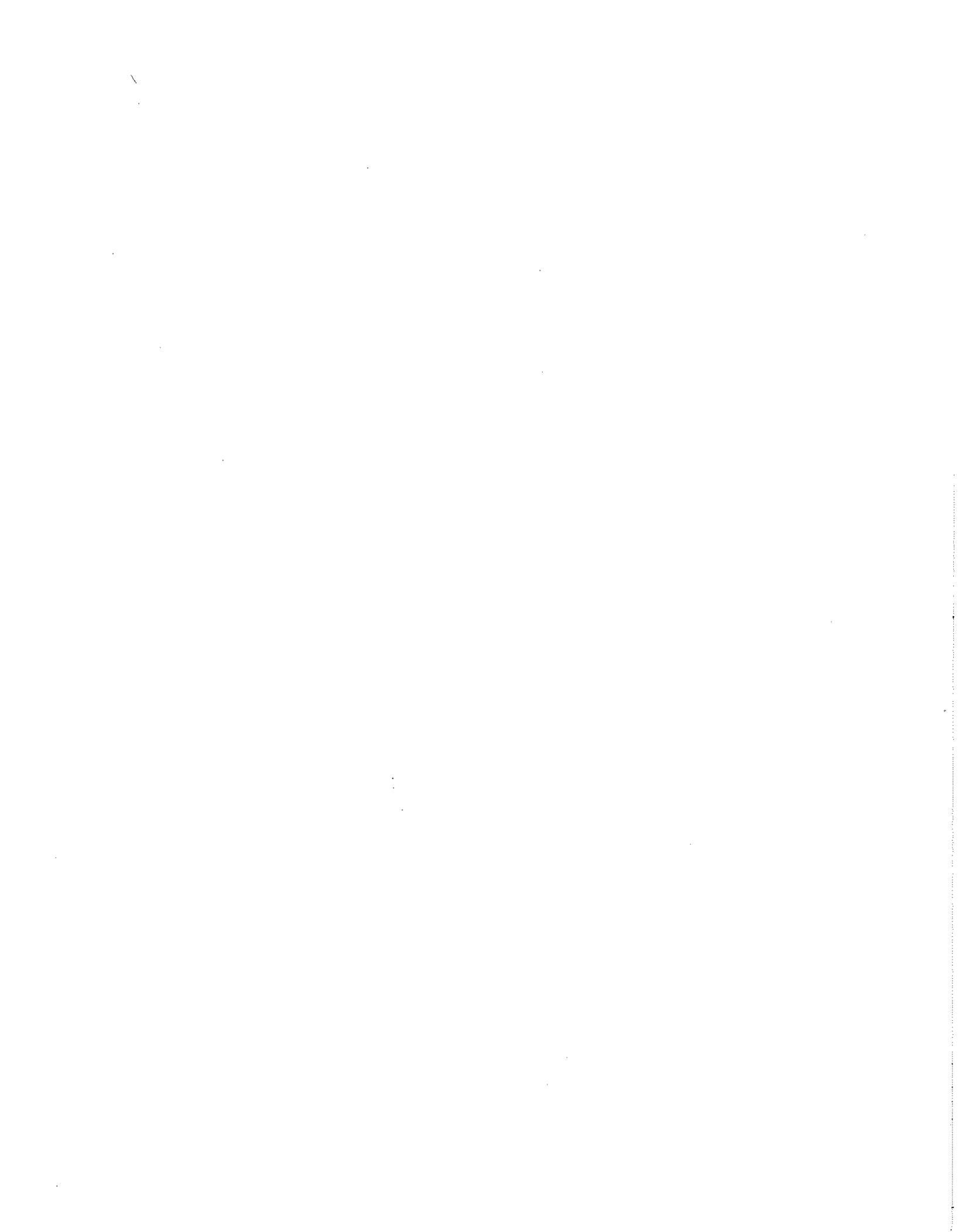
NO.	DATE	REVISIONS	BY	CHK	APP'D
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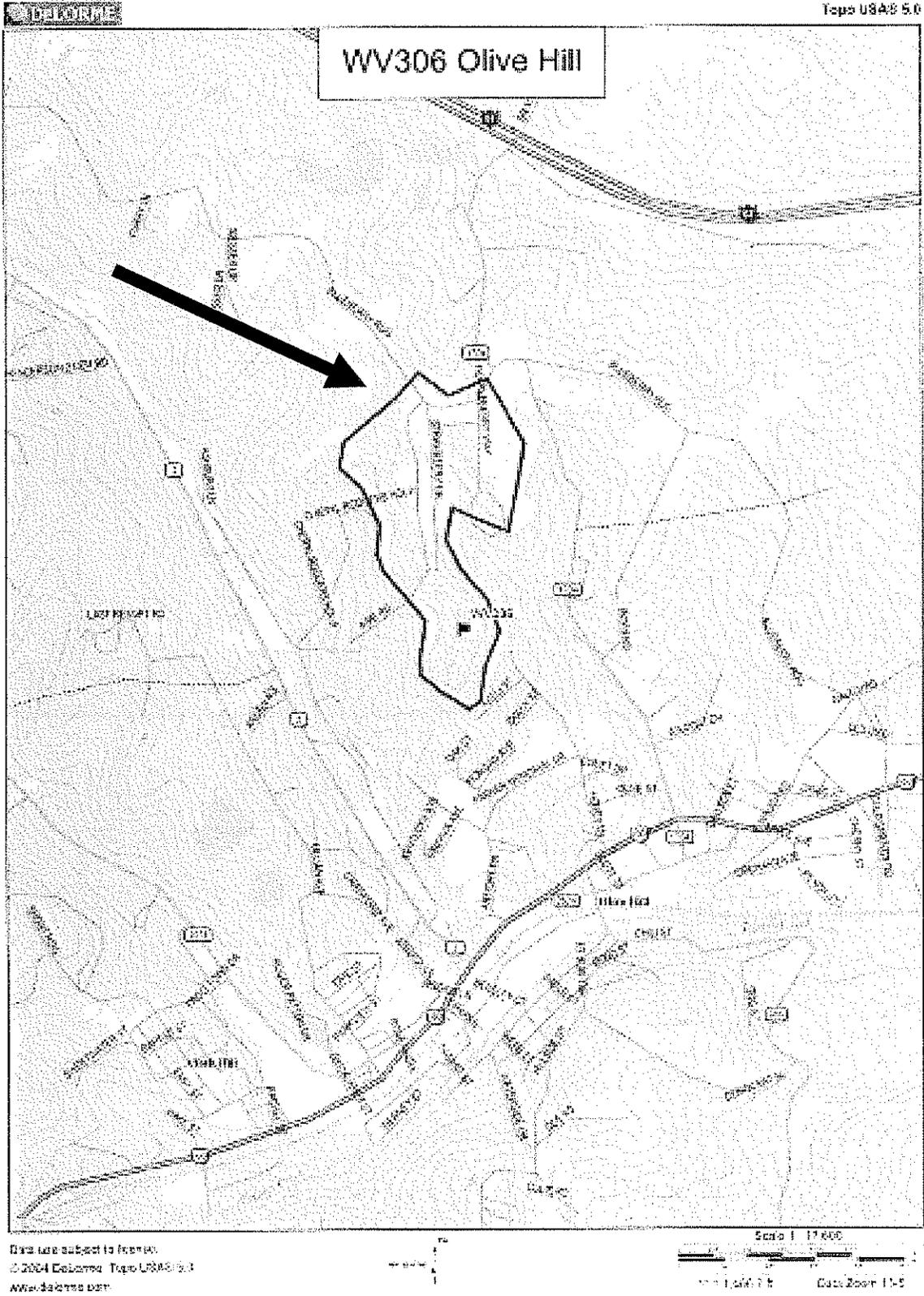
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CINGULAR WIRELESS

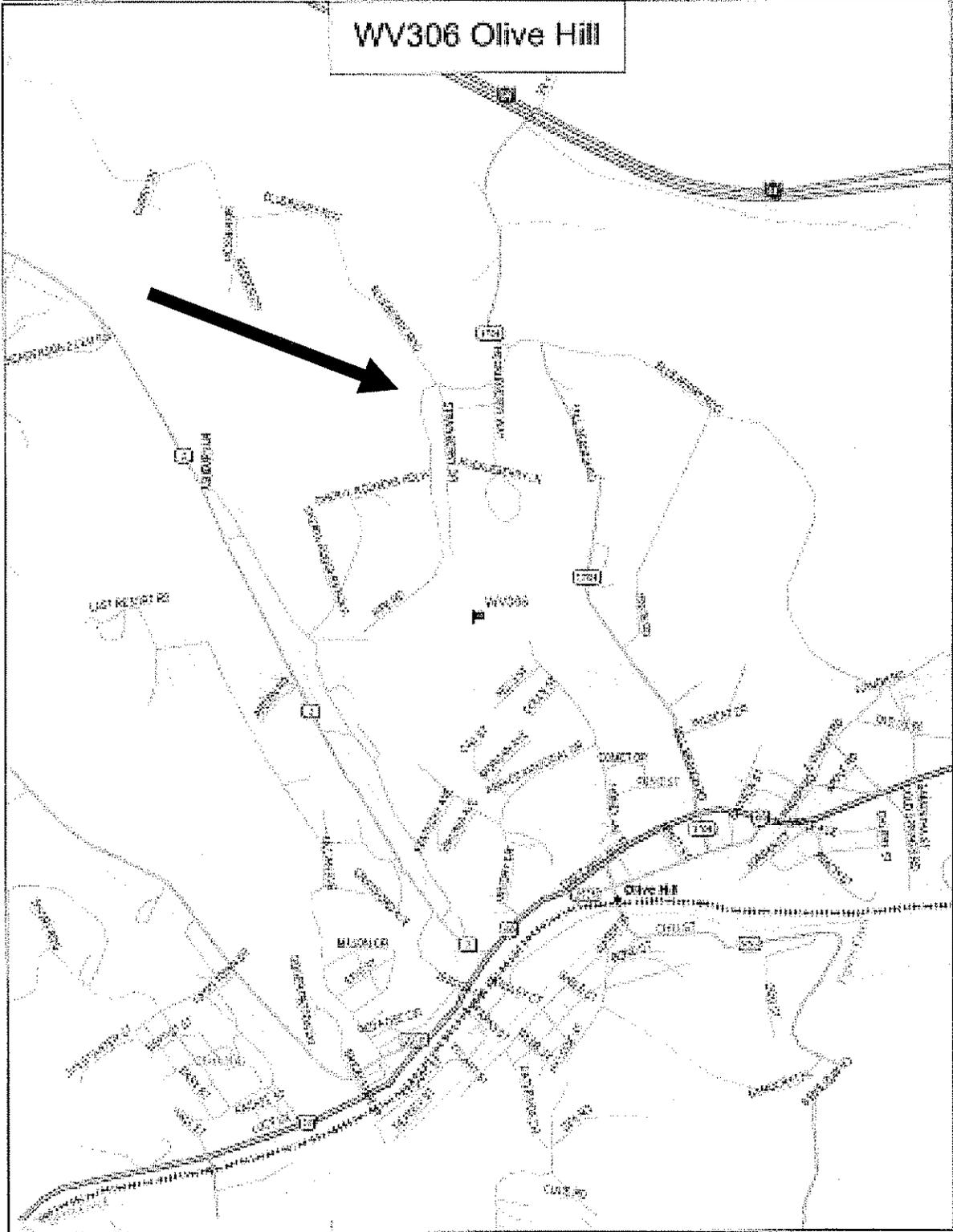
COAX COLOR CODING

DRAWING NUMBER	REV
24782-421	3

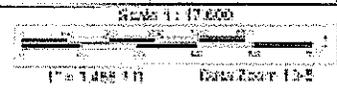




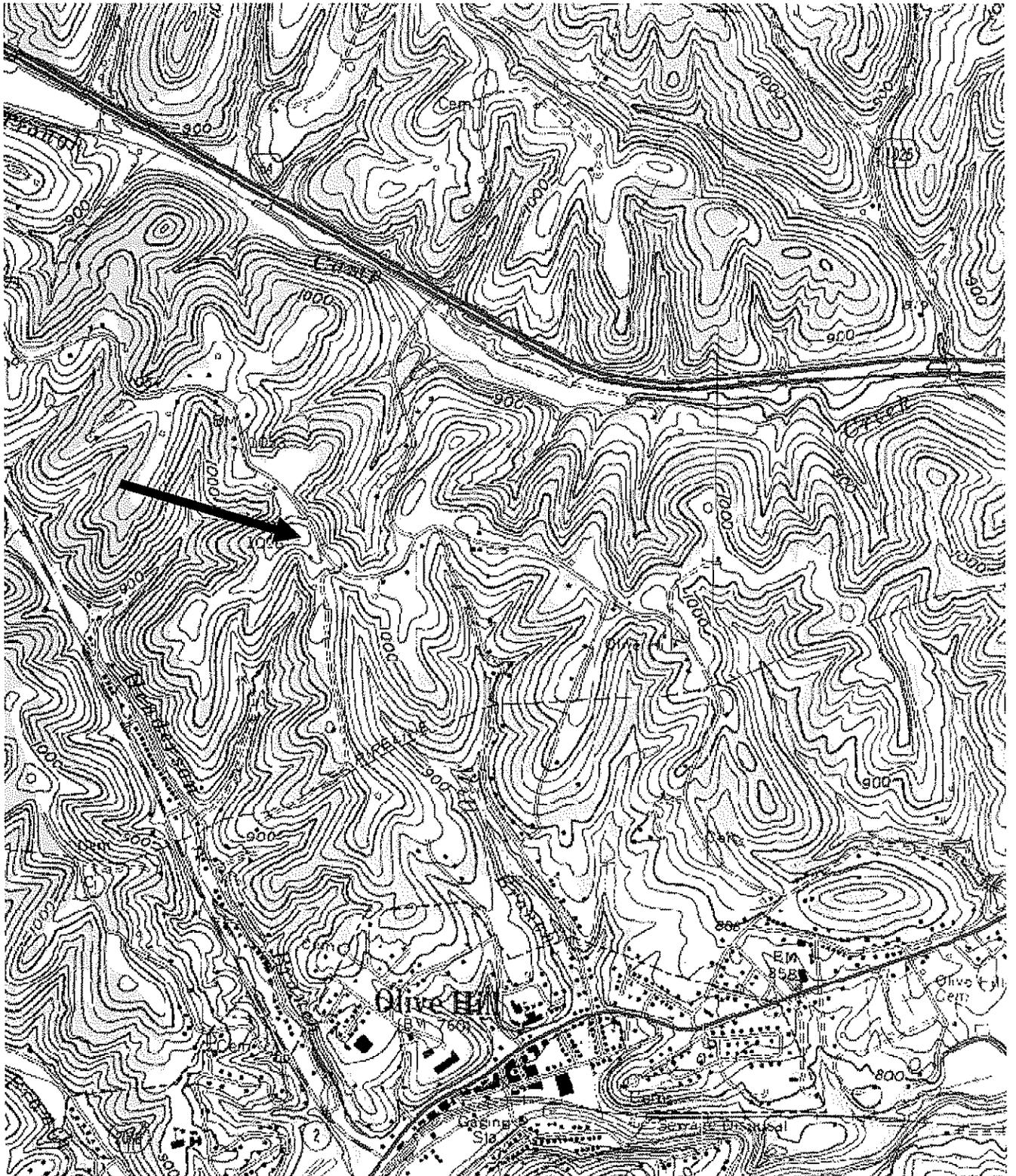
WV306 Olive Hill



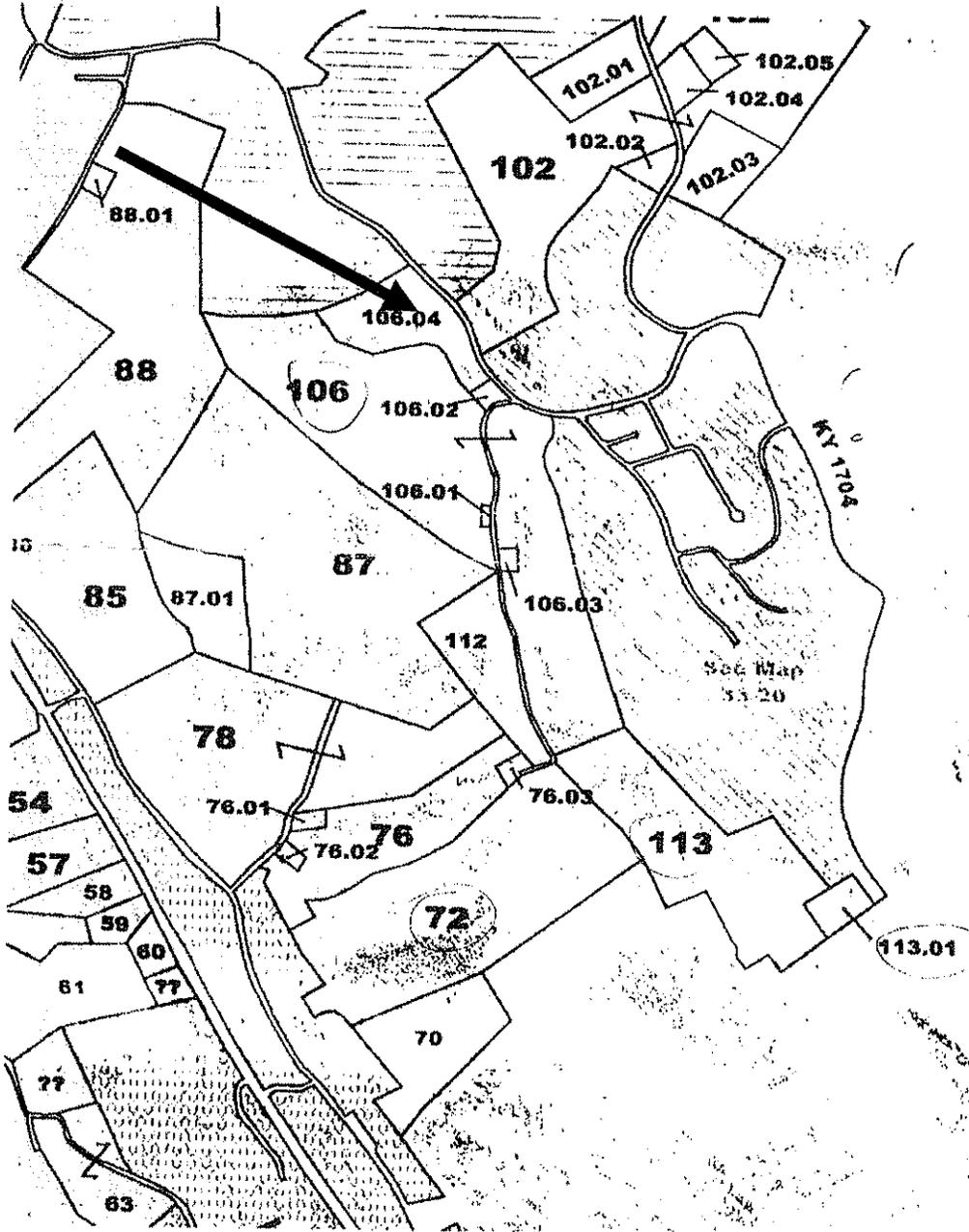
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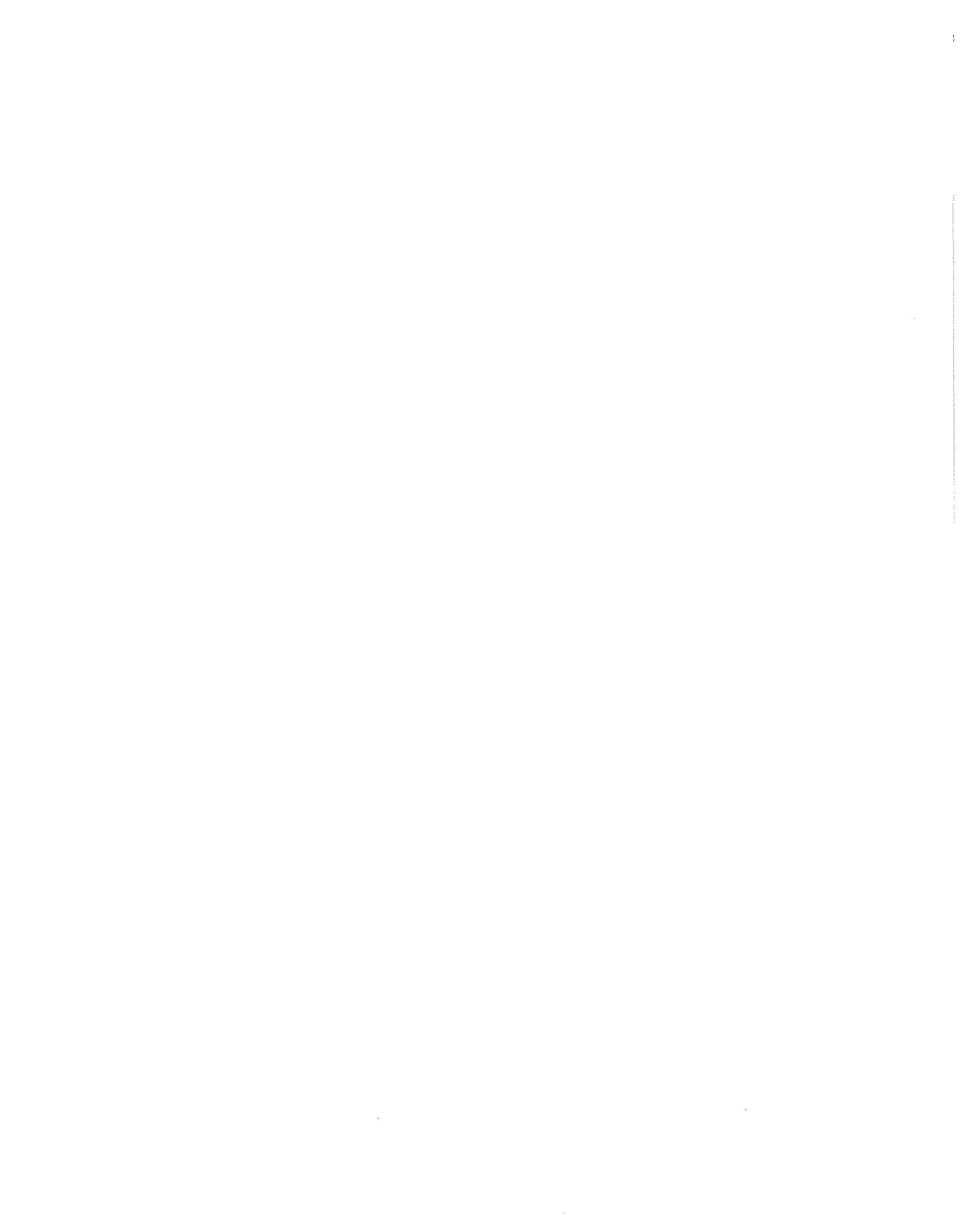


TOPO



TAX MAP





REDACTED

Market: Virginia / West Virginia
 Cell Site Number: WV306
 Cell Site Name: Stallard
 Fixed Asset Number: 10117392

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("**Agreement**"), dated as of the latter of the signature dates below (the "Effective Date"), is entered into by Richard A. Stallard and Nadine Stallard, having a mailing address of P.O. Box 471 (1653 Blueberry Ridge Road), Olive Hill KY, 41164 (hereinafter referred to as "**Landlord**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 6100 Atlantic Boulevard, Norcross, Georgia 30071 (hereinafter referred to as "**Tenant**").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, together with all rights and privileges arising in connection therewith, located at 1653 Blueberry Ridge Road, in the County of Carter, State of Kentucky (collectively, the "**Property**"). Tenant desires to use a portion of the Property in connection with its federally licensed communications business. Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. **OPTION TO LEASE.**

(a) Landlord grants to Tenant an option (the "**Option**") to lease a certain portion of the Property containing approximately 10,000 square feet including the air space above such room/cabinet/ground space as described on attached **Exhibit 1**, together with unrestricted access for Tenant's uses from the nearest public right-of-way along the Property to the Premises as described on the attached **Exhibit 1** (collectively, the "**Premises**").

(b) During the Option period and any extension thereof, and during the term of this Agreement, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term (as defined below), reasonable wear and tear and casualty not caused by Tenant excepted. In addition, Tenant shall indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or claims arising directly out of Tenant's Tests.

(c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of [REDACTED] within thirty (30) business days of the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (the "Initial Option Term") and may be renewed by Tenant for an additional one (1) year upon written notification to Landlord and the payment of an additional [REDACTED] [REDACTED] no later than ten (10) days prior to the expiration date of the Initial Option Term.

(d) The Option may be sold, assigned or transferred at any time by Tenant to Tenant's parent company or member if Tenant is a limited liability company or any affiliate or subsidiary of, or partner in, Tenant or its parent company or member, or to any third party agreeing to be subject to the terms hereof. Otherwise, the Option may not be sold, assigned or transferred without the written consent of Landlord, such consent not to be unreasonably withheld, conditioned or delayed. From and after the date the Option has been sold, assigned or transferred by Tenant to a third party agreeing to be subject to the terms hereof, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

(e) During the Initial Option Term and any extension thereof, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option then Landlord leases the Premises to the Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, this Agreement will terminate and the parties will have no further liability to each other.

(f) If during the Initial Option Term or any extension thereof, or during the term of this Agreement if the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the "Surrounding Property," which includes (without limitation) the remainder of the structure) or in the event of foreclosure, Landlord shall immediately notify Tenant in writing. Any sale of the Property shall be subject to Tenant's rights under this Agreement. Landlord agrees that during the Initial Option Term or any extension thereof, or during the Term of this Agreement if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other restriction that would prevent or limit Tenant from using the Premises for the uses intended by Tenant as hereinafter set forth in this Agreement.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of its communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure, associated antennas, I beams, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "Communication Facility"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "Permitted Use"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 1** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 1** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 1**. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of Landlord's contiguous, adjoining or surrounding property as described on Exhibit "1" hereto (the "Surrounding Property"), as may reasonably be required during construction and installation of the Communications Facility. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the main entry point to the equipment shelter or cabinet, and to make Property improvements, alterations, upgrades or additions appropriate for Tenant's use ("Tenant Changes"). Tenant Changes include the right to

construct a fence around the Premises and undertake any other appropriate means to secure the Premises at Tenant's expense. Tenant agrees to comply with all applicable governmental laws, rules, statutes and regulations, relating to its use of the Communication Facility on the Property. Tenant has the right to modify, supplement, replace, upgrade, expand the equipment, increase the number of antennas or relocate the Communication Facility within the Premises at any time during the term of this Agreement. Tenant will be allowed to make such alterations to the Property in order to accomplish Tenant's Changes or to insure that Tenant's Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, and Tenant requires an additional portion of the Property (the "Additional Premises") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by a reasonable amount consistent with rental rates then charged for comparable portions of real property being in the same area. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant. Anything to the contrary notwithstanding, Tenant agrees that not more than one (1) tower will be erected on the Property and that no guy wires shall be used on the Property except during construction of the Communication Facility and in cases of emergency.

3. **TERM.**

(a) The initial lease term will be five (5) years ("**Initial Term**"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "Term Commencement Date"). The Initial Term will terminate on the fifth (5th) annual anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for five (5) additional five (5) year term(s) (each five (5) year term shall be defined as the "**Extension Term**"), upon the same terms and conditions unless the Tenant notifies the Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the existing Term.

(c) If, at least sixty (60) days prior to the end of the fifth (5th) extended term, either Landlord or Tenant has not given the other written notice of its desire that the term of this Agreement end at the expiration of the fifth (5th) extended term, then upon the expiration of the fifth (5th) extended term this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter until terminated by either party by giving to the other written notice of its intention to so terminate at least six (6) months prior to the end of any such annual term. Monthly rental during such annual terms shall be equal to the rent paid for the last month of the fifth (5th) extended term. If Tenant remains in possession of the Premises after the termination of this Agreement then Tenant will be deemed to be occupying the Premises on a month to month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, the Extension Term and the Holdover Term are collectively referred to as the Term ("**Term**").

4. **RENT.**

(a) Commencing on the first day of the month following the date that Tenant commences construction (the "Rent Commencement Date"), Tenant will pay the Landlord a monthly rental payment of [REDACTED] ("**Rent**"), at the address set forth above, on or before the fifth (5th) day of each calendar month in advance. In partial months occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within thirty (30) days after the Rent Commencement Date.

(b) In year one (1) of each Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the previous Term.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any

charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly rent which is due and payable without a requirement that it be billed by Landlord. The provisions of the foregoing sentence shall survive the termination or expiration of this Agreement.

5. **APPROVALS.**

(a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises for Tenant's Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for Tenant's Permitted Use under this Agreement and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of Tenant's choice. In the event Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory, Tenant will have the right to terminate this Agreement upon notice to Landlord.

(c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if the Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.

6. **TERMINATION.** This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Paragraph 15 Default and Right to Cure of this Agreement after the applicable cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain, or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended by Tenant; or if Tenant determines in its sole discretion that the cost of obtaining or retaining the same is commercially unreasonable; or

(c) by Tenant upon written notice to Landlord for any reason, at any time prior to commencement of construction by Tenant; or

(d) by Tenant upon sixty (60) days prior written notice to Landlord for any reason, so long as Tenant pays Landlord a termination fee equal to three (3) months Rent, at the then current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any one or more of Paragraphs 5(b) Title, 6(a) Termination, 6(b) Termination, 6(c) Termination, 8 Interference, 11(d) Environmental, 18 Condemnation, 19 Casualty or 23(j) Severability of this Agreement.

7. **INSURANCE.**

Tenant will carry during the Term, at its own cost and expense, the following insurance: (i) "All Risk" property insurance for its property's replacement cost; (ii) commercial general liability insurance with a minimum limit of liability of \$2,500,000 combined single limit for bodily injury or death/property damage arising out of any one occurrence; and (iii) Workers' Compensation Insurance as required by law. The coverage afforded by Tenant's commercial general liability insurance shall apply to Landlord as an additional insured, but only with respect to Landlord's liability arising out of its interest in the Property.

8. **INTERFERENCE.**

(a) Where there are existing radio frequency user(s) on the Property, the Landlord will provide Tenant with a list of all existing radio frequency user(s) on the Property to allow Tenant to evaluate the potential for interference. Tenant warrants that its use of the Premises will not interfere with existing radio frequency user(s) on the Property so disclosed by Landlord, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

(b) Landlord will not grant, after the date of this Agreement, a lease, license or any other right to any third party for the use of the Property, if such use may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.

(c) Landlord will not use, nor will Landlord permit its employees, tenants, licensees, invitees or agents to use, any portion of the Property in any way which interferes with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period then the parties acknowledge that Tenant will suffer irreparable injury, and therefore, Tenant will have the right, in addition to any other rights that it may have at law or in equity, for Landlord's breach of this Agreement, to elect to enjoin such interference or to terminate this Agreement upon notice to Landlord.

9. **INDEMNIFICATION.**

(a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, agents or independent contractors.

(b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord or its employees or agents, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) Notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages.

10. **WARRANTIES.**

(a) Tenant and Landlord each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority to enter into this Agreement and bind itself hereto through the party set forth as signatory for the party below.

(b) Landlord represents and warrants that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on the Landlord; and (v) if the Property is or becomes encumbered by a deed

to secure a debt, mortgage or other security interest, Landlord will provide promptly to Tenant a mutually agreeable Subordination, Non-Disturbance and Attornment Agreement.

11. **ENVIRONMENTAL.**

(a) Landlord represents and warrants that the Property is free of hazardous substances as of the date of this Agreement, and, to the best of Landlord's knowledge, the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all environmental and industrial hygiene laws, including any regulations, guidelines, standards, or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene condition or other matters as may now or at any time hereafter be in effect, that are now or were related to that party's activity conducted in or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding which is related to (i) the indemnifying party's failure to comply with any environmental or industrial hygiene law, including without limitation any regulations, guidelines, standards or policies of any governmental authorities regulating or imposing standards of liability or standards of conduct with regard to any environmental or industrial hygiene conditions or matters as may now or hereafter be in effect, or (ii) any environmental or industrial hygiene conditions that arise out of or are in any way related to the condition of the Property and activities conducted by the party thereon, unless the environmental conditions are caused by the other party.

(c) The indemnifications of this Paragraph 11 Environmental specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Paragraph 11 Environmental will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous materials on the Property, or any environmental or industrial hygiene condition or matter relating to the Property that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of government action, intervention or third-party liability, Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate the Agreement upon notice to Landlord.

12. **ACCESS.** At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access to and over the Property, from an open and improved public road to the Premises, provided and maintained by tenant for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. Landlord grants to Tenant an easement for such access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. In the event any public utility is unable to use the access or easement provided to Tenant then the Landlord agrees to grant additional access or an easement either to Tenant or to the public utility, for the benefit of Tenant, at no cost to Tenant.

13. **REMOVAL/RESTORATION.** All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of the Landlord that

all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of the Tenant and may be removed by Tenant at any time during the Term. Within one hundred twenty (120) days of the termination of this Agreement, Tenant will remove all of Tenant's above-ground improvements and Tenant will, to the extent reasonable, restore the Premises to its condition at the commencement of the Agreement, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation, nor will Tenant be required to remove from the Premises or the Property any foundations or underground utilities.

14. **MAINTENANCE/UTILITIES.**

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property thereto, in good and tenable condition, subject to reasonable wear and tear and damage from the elements.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to submeter from the Landlord. When submetering is necessary and available, Landlord will read the meter on a monthly or quarterly basis and provide Tenant with the necessary usage data in a timely manner to enable Tenant to compute such utility charges. Failure by Landlord to perform this function will limit utility fee recovery by Landlord to a 12-month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least 24 hours advanced notice of any planned interruptions of said electricity. If the interruption is for an extended period of time, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will fully cooperate with any utility company requesting an easement over, under and across the Property in order for the utility company to provide service to the Tenant. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

15. **DEFAULT AND RIGHT TO CURE.**

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after receipt of written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after receipt of written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.

(b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) failure to provide access to the Premises or to cure an interference problem within twenty-four (24) hours after receipt of written notice of such default; or (ii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after receipt of written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have the right to exercise any and all rights available to it under law and equity, including the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant.

16. **ASSIGNMENT/SUBLEASE.** Tenant will have the right to assign this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement.

17. **NOTICES.** All notices, requests, demands and communications hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows:

If to Tenant: c/o Cingular Wireless LLC
Attn: Network Real Estate Administration
Re: Cell Site # WV306; Cell Site Name: Stallard
6100 Atlantic Boulevard
Norcross, GA 30071

With a copy to: Cingular Wireless LLC
Attn: Legal Department
Re: Cell Site # WV306; Cell Site Name: Stallard
5 Wood Hollow Road
Parsippany, NJ 07054

If to Landlord: Richard A. Stallard and Nadine Stallard
P.O. Box 471
(1653 Blueberry Ridge Road)
Olive Hill KY, 41164

Either party hereto may change the place for the giving of notice to it by thirty (30) days prior written notice to the other as provided herein.

18. **CONDEMNATION.** In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within forty-eight (48) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses, provided that any award to Tenant will not diminish Landlord's recovery. Tenant will be entitled to reimbursement for any prepaid Rent on a prorata basis.

19. **CASUALTY.** Landlord will provide notice to Tenant of any casualty affecting the Property within forty-eight (48) hours of the casualty. If any part of the Communication Facility or Property is damaged by fire or other casualty so as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to the Landlord, which termination will be effective as of the date of such damage or destruction. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a prorata basis. If notice of termination is given, or if Landlord or Tenant undertake to rebuild the Communications Facility, Landlord agrees to use its reasonable efforts to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until such time

as Tenant is able to activate a replacement transmission facility or another location or the reconstruction of the Communication Facility is completed.

20. **WAIVER OF LANDLORD'S LIENS.** Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law, and Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

21. **TAXES.** Landlord shall be responsible for payment of all ad valorem taxes levied upon the lands, improvements and other property of Landlord. Tenant shall be responsible for all taxes levied upon Tenant's leasehold improvements (including Tenant's equipment building and tower) on the Premises. Landlord shall provide Tenant with copies of all assessment notices on or including the Premises immediately upon receipt, but in no event later than seven (7) days after receipt by Landlord. If Landlord fails to provide such notice within such time frame, Landlord shall be responsible for all increases in taxes for the year covered by the assessment. Tenant shall have the right to contest, in good faith, the validity or the amount of any tax or assessment levied against the Premises by such appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as Tenant may deem appropriate. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate in the institution and prosecution of any such proceedings and will execute any documents required therefore. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant.

22. **SALE OF PROPERTY/RIGHT OF FIRST REFUSAL.**

(a) If Landlord, at any time during the Term of this Agreement, decides to sell, subdivide or rezone any of the Premises, all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such sale, subdivision or rezoning shall be subject to this Agreement and Tenant's rights hereunder. Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communications facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion, any such testing to be at the expense of Landlord or Landlord's prospective purchaser, and not Tenant. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communications facility or equipment. Landlord shall not be prohibited from the selling, leasing or use of any of the Property or the Surrounding Property for non-wireless communication use. In the event the Property is transferred, the new landlord shall have a duty at the time of such transfer to provide Tenant with a completed IRS Form W-9, or its equivalent, and other related paper work to effect a transfer in Rent to the new landlord. The provisions of this Paragraph 22 shall in no way limit or impair the obligations of Landlord under Paragraph 8 above.

(b) If at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking an assignment of the rental stream associated with this Agreement ("Purchase Offer"), Landlord shall immediately furnish Tenant with a copy of the Purchase Offer, together with a representation that the Purchase Offer is valid, genuine and true in all respects. Tenant shall have the right within thirty (30) days after it receives such copy and representation to match the Purchase Offer and agree in writing to match the terms of the Purchase Offer. Such writing shall be in the form of a contract substantially similar to the Purchase Offer. If Tenant chooses not to exercise this right of first

refusal or fails to provide written notice to Landlord within the thirty (30) day period, Landlord may assign the rental stream pursuant to the Purchase Offer, subject to the terms of this Agreement (including without limitation the terms of this Paragraph 22), to the person or entity that made the Purchase Offer provided that (i) the assignment is on the same terms contained in the Purchase Offer and (ii) the assignment occurs within ninety (90) days of Tenant's receipt of a copy of the Purchase Offer. If such third party modifies the Purchase Offer or the assignment does not occur within such ninety (90) day period, Landlord shall re-offer to Tenant, pursuant to the procedure set forth in this subparagraph 22(b), the assignment on the terms set forth in the Purchase Offer, as amended. The right of first refusal hereunder shall (i) survive any transfer of all or any part of the Property or assignment of all or any part of the Agreement; (ii) bind and inure to the benefit of, Landlord and Tenant and their respective heirs, successors and assigns; (iii) run with the land; and (iv) terminate upon the expiration or earlier termination of this Agreement.

23. **MISCELLANEOUS.**

(a) **Amendment/Waiver.** This Agreement cannot be amended, modified or revised unless done in writing and signed by an authorized agent of the Landlord and an authorized agent of the Tenant. No provision may be waived except in a writing signed by both parties.

(b) **Memorandum/Short Form Lease.** Either party will, at any time upon fifteen (15) business days prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum or Short Form of Lease. Either party may record this Memorandum or Short Form of Lease at any time, in its absolute discretion.

(c) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(d) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement.

(e) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(f) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of the Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; and (vi) reference to a default will take into consideration any applicable notice, grace and cure periods.

(g) **Estoppel.** Either party will, at any time upon twenty (20) business days prior written notice from the other, execute, acknowledge and deliver to the other a statement in writing (i) certifying that this Agreement is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying this Agreement, as so modified, is in full force and effect) and the date to which the Rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to such party's knowledge, any uncured defaults on the part of the other party hereunder, or specifying such defaults if any are claimed. Any such statement may be conclusively relied upon by any prospective purchaser or encumbrancer of the Premises. The requested party's failure to deliver such a statement within such time will be conclusively relied upon by the requesting party that (i) this Agreement is in full force and effect, without modification except as may be properly represented by the requesting party, (ii) there are no uncured defaults in either party's performance, and (iii) no more than one month's Rent has been paid in advance.

(h) **W-9.** Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant.

(i) **No Electronic Signature/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant.

(j) **Severability.** If any term or condition of this Agreement is found unenforceable, the remaining terms and conditions will remain binding upon the parties as though said unenforceable provision were not contained herein. However, if the invalid, illegal or unenforceable provision materially affects this Agreement then the Agreement may be terminated by either party on ten (10) business days prior written notice to the other party hereto.

(k) **Counterparts.** This Agreement may be executed in two (2) or more counterparts, all of which shall be considered on and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. It is being understood that all parties need not sign the same counterpart.

[SIGNATURES APPEAR ON THE NEXT PAGE]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the last date written below.

"LANDLORD"

Richard A. Stallard and Nadine Stallard

By: Richard A. Stallard
Print Name: RICHARD A. STALLARD
Date: 9-14-07

By: Nadine Stallard
Print Name: NADINE STALLARD
Date: 9-14-07

LANDLORD ACKNOWLEDGMENT

STATE OF Ky.)
CITY / COUNTY OF Olive Hill / Carter Co.) SS:

The foregoing instrument was acknowledged before me this 14th day of Sept, 2007,
by Richard & Nadine Stallard (name of person acknowledged).

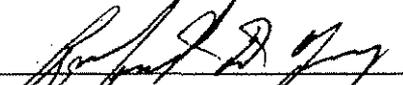
Frances L. Webb
(Signature of Person Taking Acknowledgement)

Notary Public Frances L. Webb
(Title or Rank) (Printed Name)

10-27-08
(Serial Number, if any) (Commission Expiration Date)

"TENANT"

New Cingular Wireless PCS, LLC,
a Delaware limited liability company

By: 

Print Name: Robert D. Young

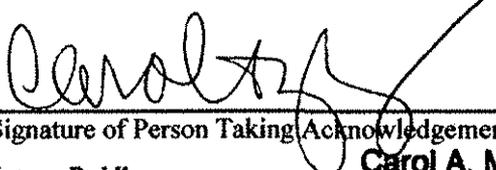
Its: Director of Network Engineering
and Operations

Date: 9/21/07

TENANT ACKNOWLEDGMENT

STATE OF VIRGINIA)
) SS:
COUNTY OF HENRICO)

The foregoing instrument was acknowledged before me this Sept 21, 2007,
by Robert D. Young
Director of Network Engineering (name of officer or agent, title of officer
and Operations
or agent) of New Cingular Wireless PCS, LLC, a Delaware limited liability company, on behalf of the
limited liability company.



(Signature of Person Taking Acknowledgement)
Carol A. Murphy
Notary Public (Title or Rank) (Printed Name)
356385 (Serial Number, if any) December 31, 2009 (Commission Expiration Date)

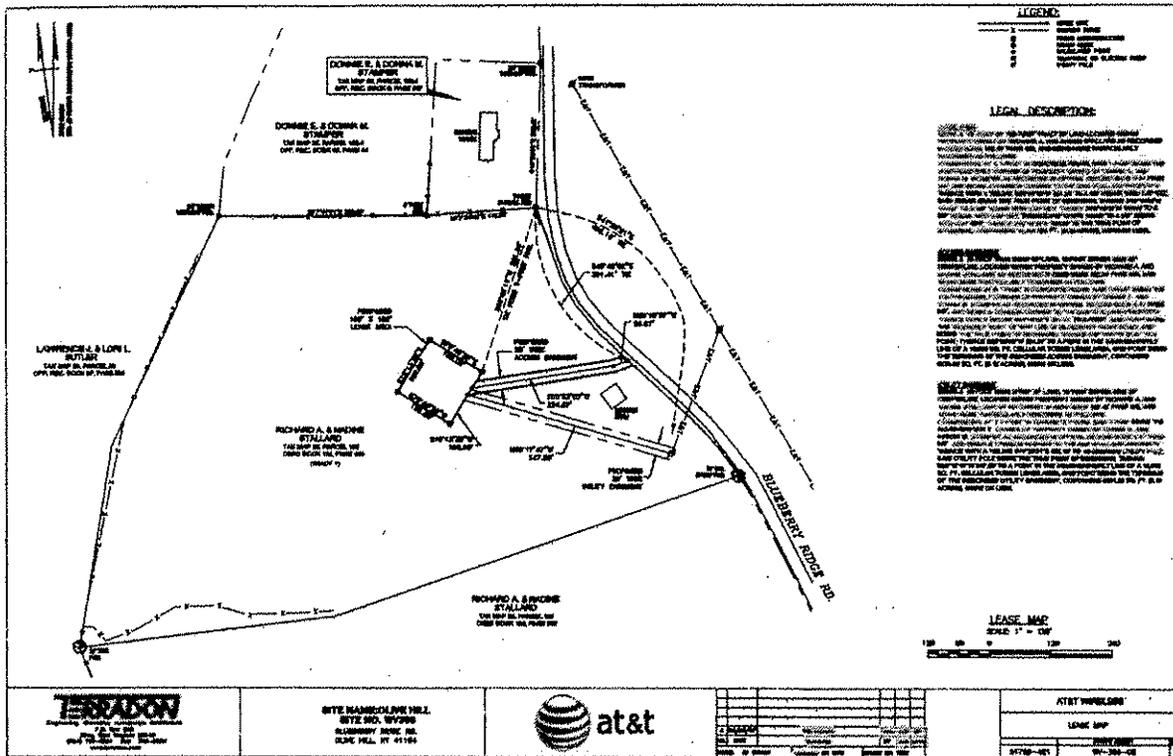
EXHIBIT 1

DESCRIPTION OF PREMISES

Page 1 of 1

to the Agreement dated _____, 200__, by and between Richard A. Stallard and Nadine Stallard, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Premises are described and/or depicted as follows:



Notes:

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises once received by Tenant.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.
4. The type, number and mounting positions and locations of antennas and transmission lines are illustrative only. Actual types, numbers and mounting positions may vary from what is shown above.



CERTIFICATION

FAA 1-A ACCURACY STATEMENT

TERRADON CORPORATION
P.O. Box 519
Nitro, WV 25143
Tel: (304) 755-8291
Fax: (304) 755-2636
www.terraddon.com

August 23, 2007

ATTN.: Maurice Paradis - Richmond Market Project Engineer
Bechtel Telecommunications
4805 Lake Brook Drive, Suite 115
Glen Allen, VA 23060

RE: WV306B
Blueberry Ridge

With reference to the above site, I hereby certify that the following meet the accuracy standards of the FAA 1-A accuracy requirements.

HORIZONTAL DATUM (COORDINATES) OF THE CENTER OF TOWER
(Accurate within FAA horizontal 1-A accuracy requirement of +/-5feet)

Latitude and Longitude in NAD 1927 Datum

Latitude: N 38 Degrees 19 Minutes 07.0247 Seconds

Longitude: W 83 Degrees 11 Minutes 07.1039 Seconds

Latitude and Longitude in NAD 1983 Datum

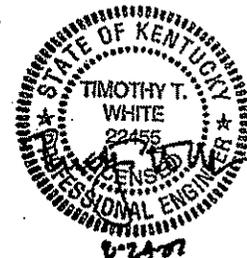
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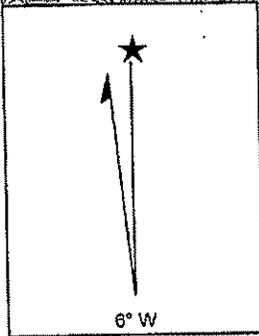
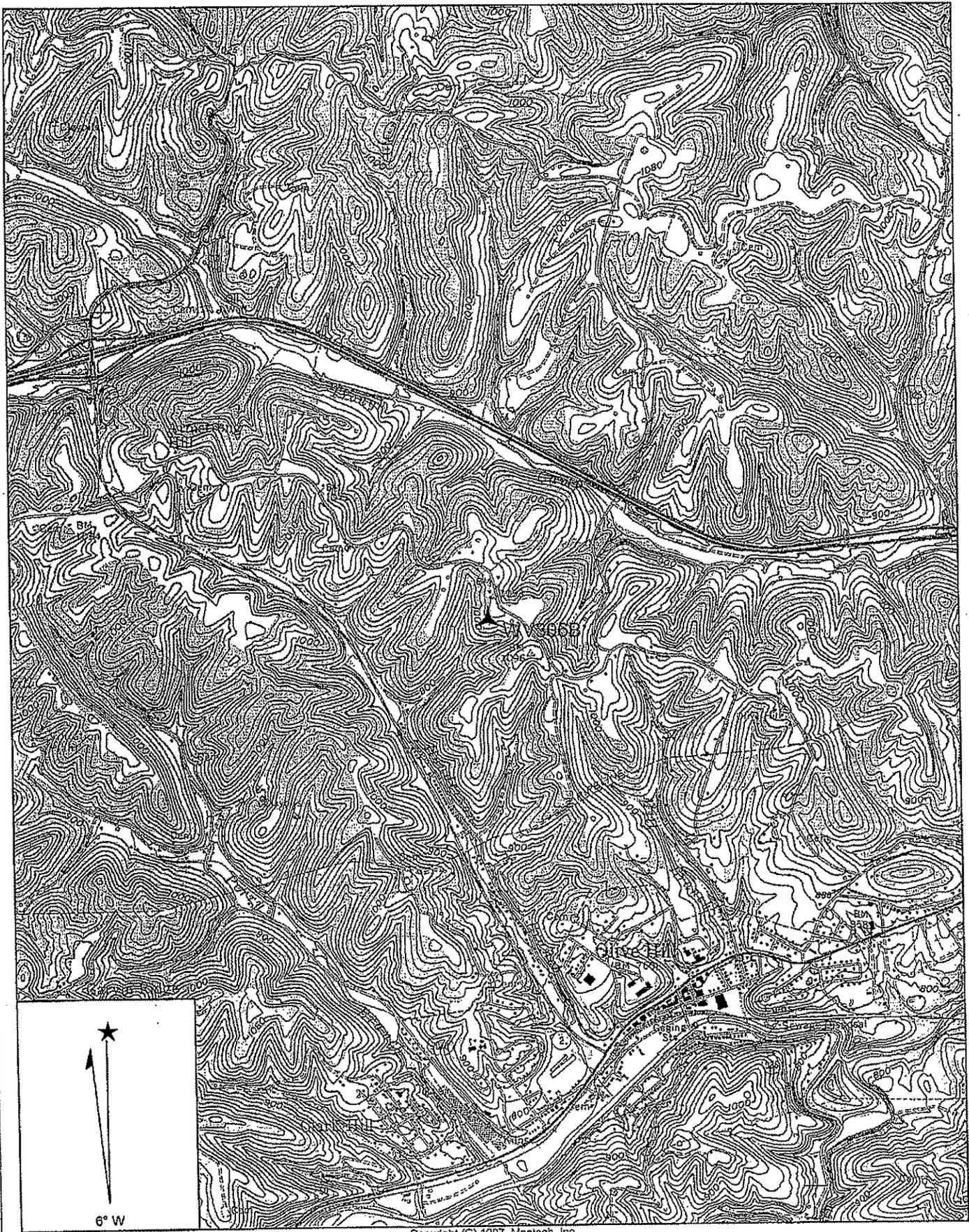
Longitude: W 83 Degrees 11 Minutes 06.7414 Seconds

VERTICAL DATUM (ELEVATION) OF THE CENTER OF TOWER
(Accurate within FAA vertical 1-A accuracy requirements of +/-3 feet)

Existing Ground Elevation: 1048.38' (NAVD88)

Proposed Top of Tower Elevation: 1348.38 (NAVD88)





PROJECT INFORMATION

SCOPE OF WORK: UNMANNED TELECOMMUNICATIONS FACILITY INCLUDING NEW ANTENNAS AND AN EQUIPMENT SHELTER.

SITE ADDRESS: BLUEBERRY RIDGE RD. OLIVE HILL, KY 41164

LATITUDE: N38° 19' 07.31" (NAD83)
 LONGITUDE: W83° 11' 06.74" (NAD83)
 ELEVATION: 1046.36' (NAVD88)
 TOWER HEIGHT: 300' (AGL)

FLOOD PLAIN ZONE: C

JURISDICTION: CARTER COUNTY

ZONING DISTRICT CLASSIFICATION: WIRELESS COMMUNICATIONS

PARCEL SIZE: 11.4 AC.

TAX MAP / DEED REFERENCE: TM 33, PAR 106 / D.B. 132, PG. 495

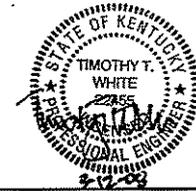
PROPOSED USE: TELECOMMUNICATIONS FACILITY

PROPERTY OWNER: RICHARD A. AND NADINE STALLARD 1653 BLUEBERRY RIDGE RD. OLIVE HILL, KY 41164

NAME OF APPLICANT: NEW CINGULAR WIRELESS PCS, LLC



SITE NUMBER: WV306B
SITE NAME: BLUEBERRY RIDGE



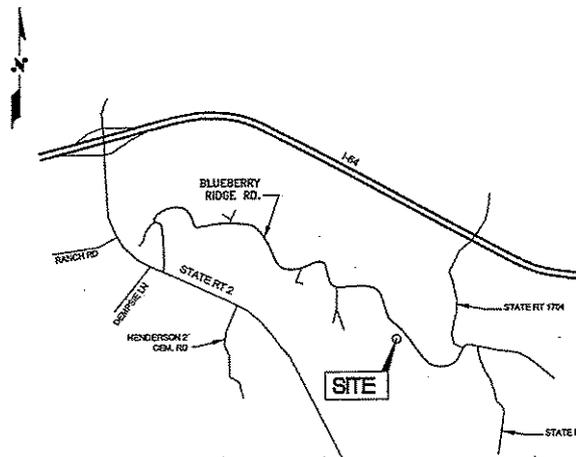
DRAWING INDEX

REV

WV-WV306-01	TITLE SHEET	3
WV-WV306-02	LEASE MAP	2
WV-WV306-03	RADIUS MAP	3
WV-WV306-04	SITE PLAN + TOWER ELEVATION	3
WV-WV306-05	GRADING PLAN	3
WV-WV306-06	FOUNDATION DETAILS	3
WV-WV306-07	CONSTRUCTION NOTES	3
WV-WV306-08	SILT FENCE DETAILS	3
WV-WV306-09	FENCE NOTES + DETAILS	3
WV-WV306-10	ELECTRICAL NOTES + DETAILS	3
WV-WV306-11	SINGLE LINE DIAGRAM + DETAILS	3
WV-WV306-12	GROUNDING DETAILS	3
WV-WV306-13	GROUNDING DETAILS	3
WV-WV306-14	GROUNDING PLANS + NOTES	3
WV-WV306-15	ANTENNA CONFIGURATION + SCHEDULE	3
WV-WV306-16	COAX COLOR CODING	3

VICINITY MAP

DIRECTIONS:
 GO SOUTHWEST ON COX ROAD TOWARD NORTH PARK DR. 0.6 MILES. TURN RIGHT ONT NUCKOLS RD. MERGE ONTO I-295 NORTH TOWARD I-64 WEST (CHARLOTTESVILLE). MERGE ONTO I-64 WEST VIA EXIT 53A TOWARD CHARLOTTESVILLE. FOLLOW I-64 WEST TO EXIT 161 OLIVE HILL, KY. GO LEFT AT BOTTOM OF EXIT RAMP ONTO US ROUTE 60. FOLLOW US ROUTE 60 FOR 4 MILES TO STATE ROUTE 1704. TURN RIGHT ONTO STATE ROUTE 1704 AND FOLLOW TO BLUEBERRY RIDGE RD. TURN LEFT ONTO BLUEBERRY RIDGE ROAD AND FOLLOW FOR APPROXIMATELY 0.5 MILES. SITE IS ON THE LEFT SIDE OF THE ROAD.



APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AAJ) FOR THE LOCATION. THE EDITION OF THE AAJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
 INTERNATIONAL BUILDING CODE (IBC 2000)

ELECTRICAL CODE:
 NATIONAL ELECTRIC CODE, (NEC 1999) W/2003 AMENDMENTS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS.
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES;
 TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

TELCORDIA GR-1503, COAXIAL CABLE CONNECTIONS

ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

DETAIL 103

CINGULAR CONSTRUCTION: _____ CINGULAR RF: _____

CINGULAR COMPLIANCE: _____ BECHTEL CONSTRUCTION: _____

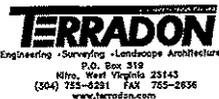
NOTES

1. SEE THE FOLLOWING NOTES, SYMBOLS AND DETAILS, BECHTEL DOCUMENT NUMBER 24782-000-A3-EF-00001 FOR THE IMPLEMENTATION OF THIS SITE DESIGN PACKAGE:

- CONCRETE AND REINFORCING STEEL NOTES (DETAIL 102)
- APPLICABLE BUILDING CODES AND STANDARDS (DETAIL 103)
- RF NOTES (DETAIL 116)
- SITE WORK GENERAL NOTES (DETAIL 619)
- STRUCTURAL STEEL NOTES (DETAIL 620)
- GROUNDING NOTES (DETAIL 621)
- ELECTRICAL INSTALLATION NOTES (DETAIL 622)
- GENERAL NOTES (DETAIL 623)
- GREENFIELD TVSS NOTES (DETAIL 624)



CALL BEFORE YOU DIG
 OR CALL OR BLAST
 BLDG. OR REMEDIATION
 1-800-732-5007



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164



NO.	DATE	REVISIONS	BY	CHK	APP'D
3	03/10/08	CHANGED TO OUTDOOR CABINETS	WJM	CCP	TTW
2	11/06/07	CHANGED RF DATA	WJM	CCP	TTW
1	09/14/07	ISSUED	WJM	CCP	TTW
0	06/07/07	PRELIMINARY	WJM	CCP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D

SCALE: AS SHOWN DESIGNED BY: WJM DRAWN BY: WJM

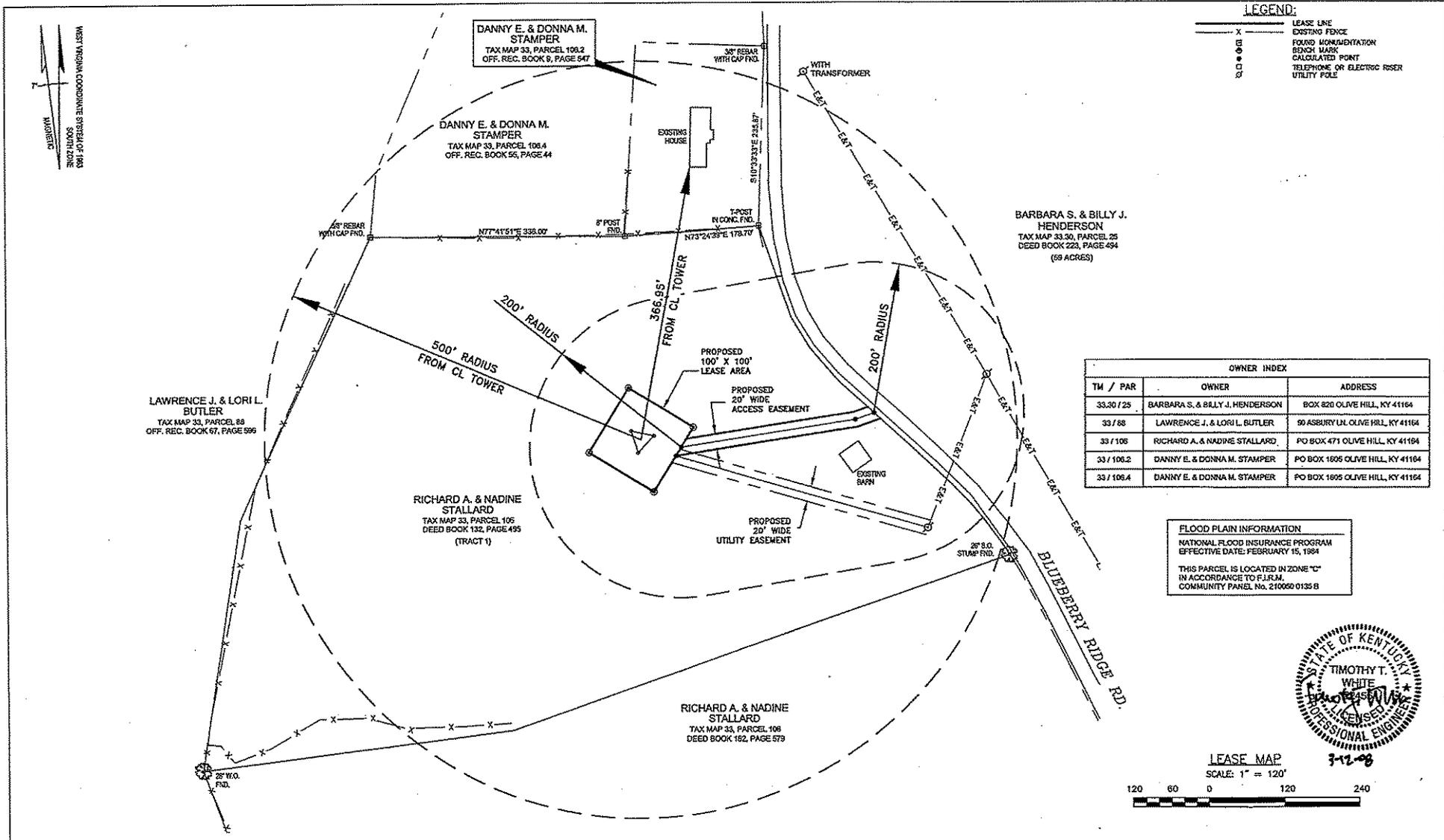
CINGULAR WIRELESS

TITLE SHEET

DRAWING NUMBER	REV
24782-421	WV-306-01
	3

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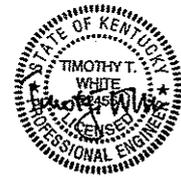


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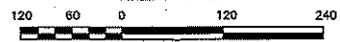
- LEASE LINE
- - - EXISTING FENCE
- FOUND MONUMENTATION
- BENCH MARK
- CALCULATED POINT
- TELEPHONE OR ELECTRIC RISER
- UTILITY POLE

OWNER INDEX		
TM / PAR	OWNER	ADDRESS
33.20 / 25	BARBARA S. & BILLY J. HENDERSON	BOX 820 OLIVE HILL, KY 41164
33 / 88	LAWRENCE J. & LORI L. BUTLER	90 ASBURY LANE OLIVE HILL, KY 41164
33 / 106	RICHARD A. & NADINE STALLARD	PO BOX 471 OLIVE HILL, KY 41164
33 / 106.2	DANNY E. & DONNA M. STAMPER	PO BOX 1605 OLIVE HILL, KY 41164
33 / 106.4	DANNY E. & DONNA M. STAMPER	PO BOX 1605 OLIVE HILL, KY 41164

FLOOD PLAIN INFORMATION
 NATIONAL FLOOD INSURANCE PROGRAM
 EFFECTIVE DATE: FEBRUARY 15, 1984
 THIS PARCEL IS LOCATED IN ZONE "C"
 IN ACCORDANCE TO F.I.R.M.
 COMMUNITY PANEL No. 210050 0135 B



LEASE MAP
 SCALE: 1" = 120'



TERRADON
 Engineering - Surveying - Landscape Architecture
 P.O. Box 519
 Nitro, West Virginia 25143
 (304) 753-5211 FAX 753-2635
 www.terraddon.com

SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41184



NO.	DATE	REVISIONS	BY	CHK	APP'D
3	03/10/08	CHANGED TO OUTDOOR CABINETS	WJM	CGP	TTM
2	11/06/07	CHANGED RF DATA	WJM	CGP	TTM
1	09/14/07	ISSUED	WJM	CGP	TTM
0	06/07/07	PRELIMINARY	WJM	CGP	TTM
		REVISIONS			

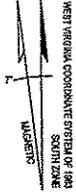
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CINGULAR WIRELESS	
RADIUS MAP	
DRAWING NUMBER	REV
24782-421	WV-306-03 3

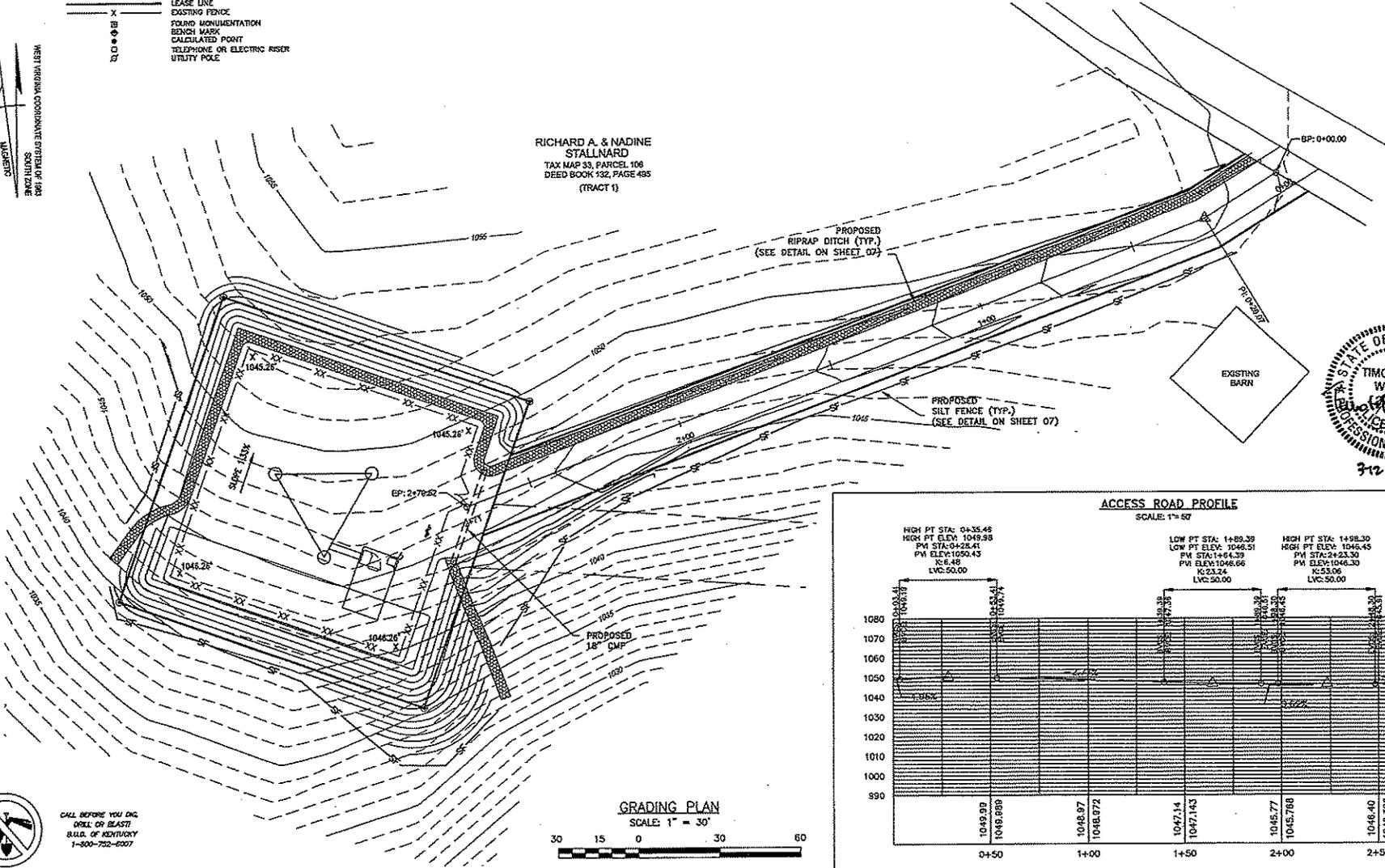
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LEGEND:

- LEASE LINE
- - - - - EXISTING FENCE
- XXXXX FOUND MONUMENTATION
- BENCH MARK
- CALCULATED POINT
- TELEPHONE OR ELECTRIC RISER
- UTILITY POLE



RICHARD A. & NADINE
STALLNARD
TAX MAP 33, PARCEL 106
DEED BOOK 132, PAGE 495
(TRACT 1)



CALL BEFORE YOU DIG
DRILL OR BLAST!
B.U.D. OF KENTUCKY
1-800-732-6207

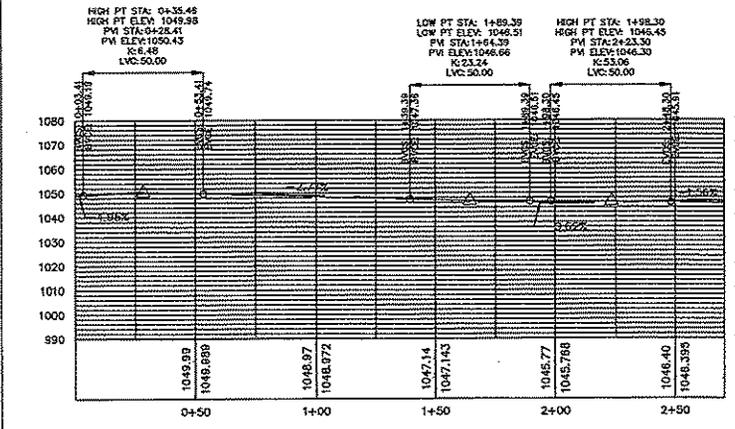
GRADING PLAN

SCALE: 1" = 30'



ACCESS ROAD PROFILE

SCALE: 1" = 50'



TERRADON
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Noto, West Virginia 25143
(304) 735-8281 FAX 735-2836
www.terradon.com

SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
CLIVE HILL, KY 41164



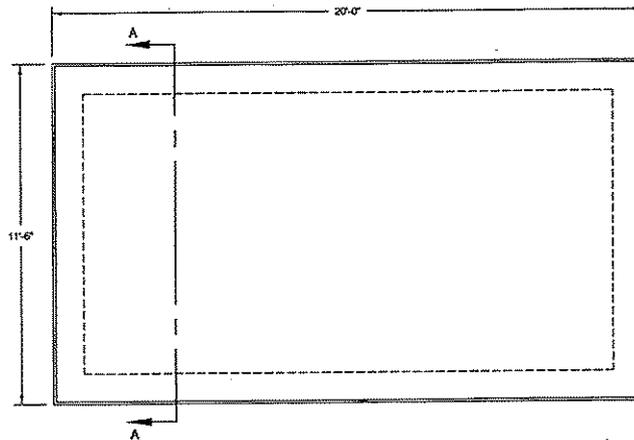
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2	11/04/07	CHANGED RT DATA	WM	CCP	TW
1	06/14/07	ISSUED	WM	CCP	TW
0	06/07/07	PRELIMINARY	WM	CCP	TW
NO.	DATE	REVISIONS	BY	CHK	APP
SCALE: AS SHOWN		DESIGNED BY: WM	DRAWN BY: WM		

CINGULAR WIRELESS

GRADING PLAN

24782-421	DRAWING NUMBER	3
WV-306-05	PROJECT NUMBER	

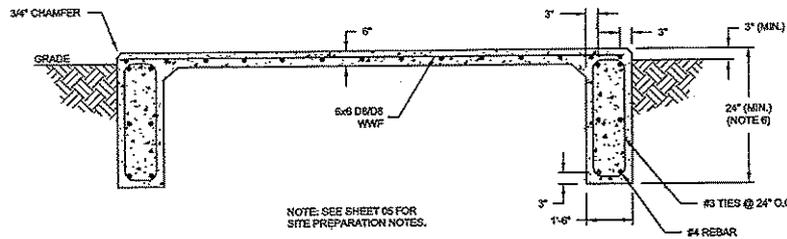
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SLAB FOUNDATION
NTS

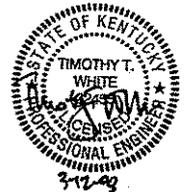
NOTES:

1. CONCRETE STRENGTH SHALL BE A MINIMUM OF 4000 PSI.
2. SLAB TO BE LEVEL AND FLAT.
3. FOOTING SHALL EXTEND TO DEPTH SHOWN OR BEAR ON SOLID ROCK IF ENCOUNTERED DURING ECAVATION.



NOTE: SEE SHEET 05 FOR
SITE PREPARATION NOTES.

SECTION "A-A"



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WGM	CCP	TW
2	11/06/07	CHANGED RF DATA	WGM	CCP	TW
1	09/14/07	ISSUED	WGM	CCP	TW
0	06/07/07	PRELIMINARY	WGM	CCP	TW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WGM	DRAWN BY: WGM		

CINGULAR WIRELESS

FOUNDATION DETAILS

24782-421	WORK NUMBER	WV-306-06	REV	3
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NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CHIPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION.
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

SITE WORK GENERAL NOTES:

DETAIL 619

NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AWS. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AWS "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4") CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL. WHEN DRILLING HOLES IN CONCRETE, SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

STRUCTURAL STEEL NOTES:

DETAIL 620

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 338, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #8 AND LARGER2 IN.
 #5 AND SMALLER & WWF.....1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALL3/4 IN.
 BEAMS AND COLUMNS1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL. WHEN DRILLING HOLES IN CONCRETE, EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.

CONCRETE AND REINFORCING STEEL NOTES 102

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - BECHTEL
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - CINGULAR
 OEM - ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
 ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 24782-000-3APS-A002-00002, "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF CINGULAR GSM SITES."

DETAIL 623



ABBREVIATIONS

- AGL ABOVE GRADE LEVEL
- BTS BASE TRANSCEIVER STATION
- (E) EXISTING
- MIN MINIMUM
- N.T.S. NOT TO SCALE
- REF REFERENCE
- RF RADIO FREQUENCY
- T.B.D. TO BE DETERMINED
- T.B.R. TO BE RESOLVED
- TYP TYPICAL
- REQ REQUIRED
- EGR EQUIPMENT GROUND RING
- AWG AMERICAN WIRE GAUGE
- MGB MASTER GROUND BUS
- EG EQUIPMENT GROUND
- BCW BARE COPPER WIRE
- SIAD SMART INTEGRATED ACCESS DEVICE
- GEN GENERATOR
- IGR INTERIOR GROUND RING (HALO)
- RBS RADIO BASE STATION

SYMBOLS

- S/G SOLID GROUND BUS BAR
- S/N SOLID NEUTRAL BUS BAR
- S/G SUPPLEMENTAL GROUND CONDUCTOR
- 2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER
- CHEMICAL GROUND ROD
- GROUND ROD
- DISCONNECT SWITCH
- METER
- CADWELD TYPE CONNECTION
- COMPRESSION TYPE CONNECTION
- GROUNDING WIRE

ABBREVIATIONS & SYMBOLS 112



**SITE NAME: BLUEBERRY RIDGE
 SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164**



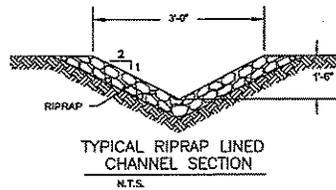
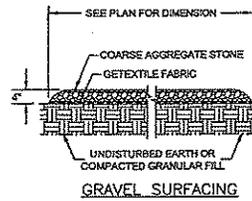
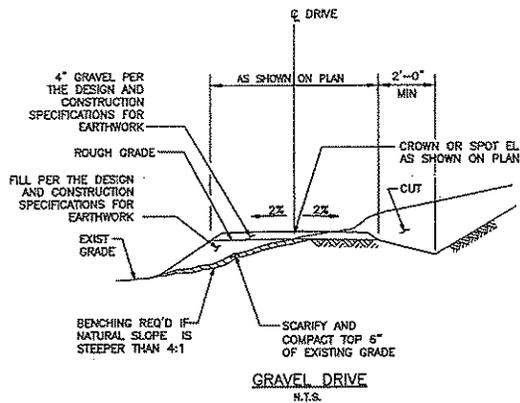
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0	06/07/07	PRELIMINARY	WJM	CCP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WJM	DRAWN BY: WJM		

CINGULAR WIRELESS

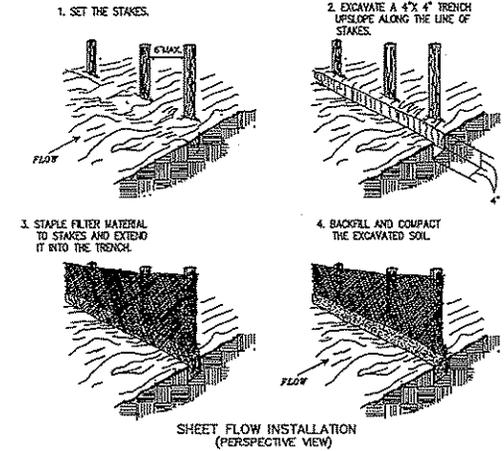
CONSTRUCTION NOTES

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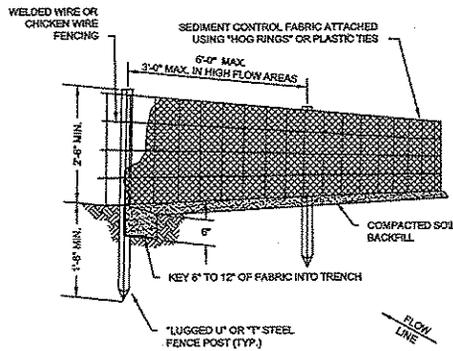
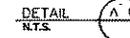
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CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



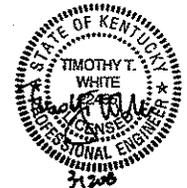
SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, VRLB2WC3.05-2 Sherwood and Hyatt



SILT FENCE
N.T.S.

SILT FENCE NOTES:

- SILT FENCE IS A TEMPORARY SEDIMENTATION CONTROL MEASURE, CONSISTING OF WOODEN OR OTHER FENCE POSTS, A SUPPORT SYSTEM AND A GEOTEXTILE FILTER FABRIC. SILT FENCE (1) REDUCES THE VELOCITY OF SHEET FLOW TO A NON-EROSIVE LEVEL, AND (2) RETAINS SUSPENDED SOIL PARTICLES FROM LEAVING THE CONSTRUCTION SITE.
 - SILT FENCE MAY BE INSTALLED WHERE SHEET FLOW EROSION CONTROL AND SEDIMENTATION CONTROL ARE NECESSARY. SILT FENCE SHALL NOT BE USED WHERE CONCENTRATED FLOWS, SUCH AS DITCHES AND/OR SWALES, MAY DEVELOP.
 - THE TYPE OF SILT FENCE SPECIFIED SHOULD BE CONSIDERED WHEN ATTEMPTING TO CONTROL SHEET FLOW EROSION AND SEDIMENTATION. A LOW QUALITY SILT FENCE MAY REQUIRE REPEATED INSTALLATIONS OF SEVERAL ROWS TO ACCOMPLISH THE TASK AT HAND. SPECIAL ATTENTION SHOULD BE GIVEN IN SELECTING THE PROPER SUPPORT SYSTEM AND THE GRADE OF GEOTEXTILE FILTER FABRIC.
 - THE FIELD LOCATION SHOULD BE ADJUSTED, AS NEEDED TO PROVIDE THE MOST EFFECTIVE CONTROL OF SHEET FLOW EROSION AND SEDIMENTATION.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED TO INSURE THAT THE SILT FENCE CONTINUES TO OPERATE EFFICIENTLY.
 - THE SILT FENCE GEOTEXTILE FILTER FABRIC SHALL BE REINFORCED WITH CONSTRUCTION HARDWARE CLOTH, STRAW BALES OR APPROVED EQUAL, IF THE SPECIFIED SILT FENCE FAILS UNDER MODERATE RAIN STORMS. A MAXIMUM SPACING OF 6" BETWEEN SUPPORTING FENCE POSTS SHALL BE SPECIFIED. THE GEOTEXTILE FILTER FABRIC SHALL BE FASTENED TO THE SUPPORTING FENCE POSTS ON THE UPHILL SIDE OF THE SLOPE.
 - BEFORE USING SILT FENCE AS A PERIMETER SEDIMENTATION CONTROL MEASURE, CONSIDERATION SHOULD BE GIVEN TO THE USE OF EXISTING VEGETATIVE BUFFER ZONES.
- INSTALL ALONG A CONTOUR LINE, OF EQUAL ELEVATION ON A SLOPE WHERE SHEET FLOW MAY DEVELOP. A MAXIMUM SHEET FLOW PATH OF 100 FEET TO THE SILT FENCE SHALL BE SPECIFIED. MULTIPLE ROWS OF SILT FENCE TO BE SPACED NO GREATER THAN 100 FEET. SILT FENCE IN GENERAL WILL FAIL UNDER THE STRESS OF CONCENTRATED FLOWS. MAINTAIN 2:1 MAXIMUM SLOPE TO SILT FENCE.



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164

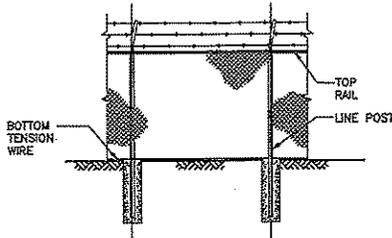


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2	11/06/07	CHANGED AT DATA	WJM	CEP	TRW
1	03/14/07	ISSUED	WJM	CEP	TRW
0	05/07/07	PRELIMINARY	WJM	CEP	TRW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WJM	DRAWN BY: WJM		

CINGULAR WIRELESS

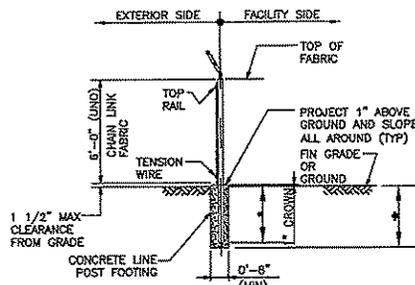
SILT FENCE DETAILS

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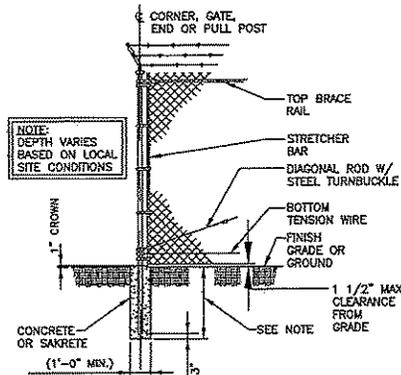
TYPICAL ELEVATION

NOTE:
DEPTH VARIES BASED ON LOCAL
SITE CONDITIONS.



TYPICAL SECTION
WOVEN WIRE FENCE

DETAIL 626
NTS



NOTE:
DEPTH VARIES
BASED ON LOCAL
SITE CONDITIONS

NOTE: FOR NOTES SEE DETAIL 629
WOVEN WIRE CORNER, GATE,
END OR PULL POST

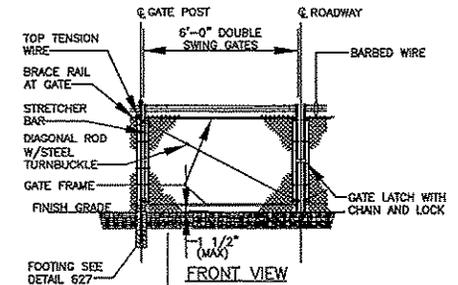
DETAIL 627
NTS

NOTES:

- (INSTALL FENCING PER ASTM F-567, SWING GATES PER ASTM F- 900)
- GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 2 7/8" SCHEDULE 40 FOR GATE WIDTHS UP THROUGH 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
 - LINE POST: 2-3/8" SCHEDULE 40 PIPE PER ASTM-F1083.
 - GATE FRAME: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1083.
 - TOP RAIL & BRACE RAIL: 1 1/4" SCHEDULE 40 PIPE PER ASTM-F1083.
 - FABRIC: 9 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392 CLASS 1.
 - TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL. INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS.
 - TENSION WIRE: 7 GA. GALVANIZED STEEL.
 - BARBED WIRE: 3 STRANDS OF DOUBLE STRANDED 12-1/2 GAUGE TWISTED WIRE. 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
 - GATE LATCH: 1-3/8" O.D. PLUNGER ROD W/ MUSHROOM TYPE CATCH AND LOCK (KEYED ALIKE FOR ALL SITES OR COMBINATION AS SPECIFIED BY CINGULAR).
 - LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
 - HEIGHT = 6' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.
 - ALL WORK SHALL CONFORM WITH THE PROJECT SPECIFICATIONS.

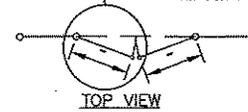
WOVEN WIRE FENCING NOTES

DETAIL 629
NTS



FRONT VIEW

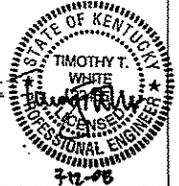
NOTE: SEE DETAIL 629 FOR NOTES.



TOP VIEW

WOVEN WIRE SWING GATE, DOUBLE

DETAIL 638
NTS



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV3068
BLUEBERRY RIDGE RD.
OLIVE HILL, NY 41164



3	05/10/06	CHANGED TO OUTDOOR CABINETS	WKM	CCP	TTW
2	11/06/07	CHANGED RF DATA	WKM	CCP	TTW
1	08/14/07	ISSUED	WKM	CCP	TTW
0	08/07/07	PRELIMINARY	WKM	CCP	TTW
		REVISIONS	BY	CHK	APP
		SCALE: AS SHOWN	DESIGNED BY: WKM	DRAWN BY: WKM	

CINGULAR WIRELESS	
FENCE DETAILS AND NOTES	
24782-421	DRIVING LEADER WV-306-09
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ELECTRICAL INSTALLATION NOTES

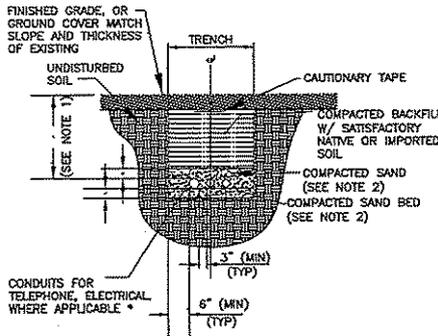
1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TO CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE-E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.

ELECTRICAL INSTALLATION NOTES (cont.)

23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 144 AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

DETAIL 622

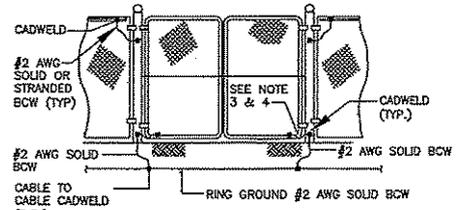
- NOTES: 1. ENGINEER SHALL DETERMINE DEPTH "D" BASED UPON NATIONAL ELECTRICAL CODE, UTILITY REQUIREMENTS OR STATE AND LOCAL CODES.
2. LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.



* CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

DIRECT BURIED CONDUIT

DETAIL 105



(TYP) NOTES:

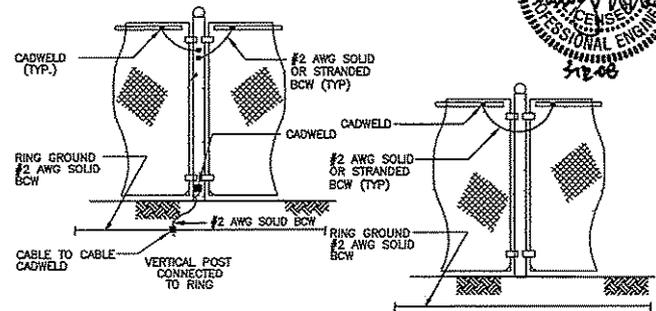
1. THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.
2. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING
3. GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BUNDLY TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
4. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECT TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.

FENCE GATE GROUNDING

DETAIL 630

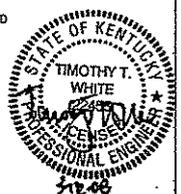
NOTE:

1. VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST, AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FOOT STRAIGHT RUN OF FENCE.
2. HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.
3. BOND EACH HORIZONTAL POLE / BRACE TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING



FENCE GROUNDING

DETAIL 631



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	05/10/09	CHANGED TO OUTDOOR CABINETS	WKM	CGP	TW
2	11/08/07	CHANGED RT DATA	WKM	CGP	TW
1	09/14/07	ISSUED	WKM	CGP	TW
0	06/07/07	PRELIMINARY	WKM	CGP	TW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

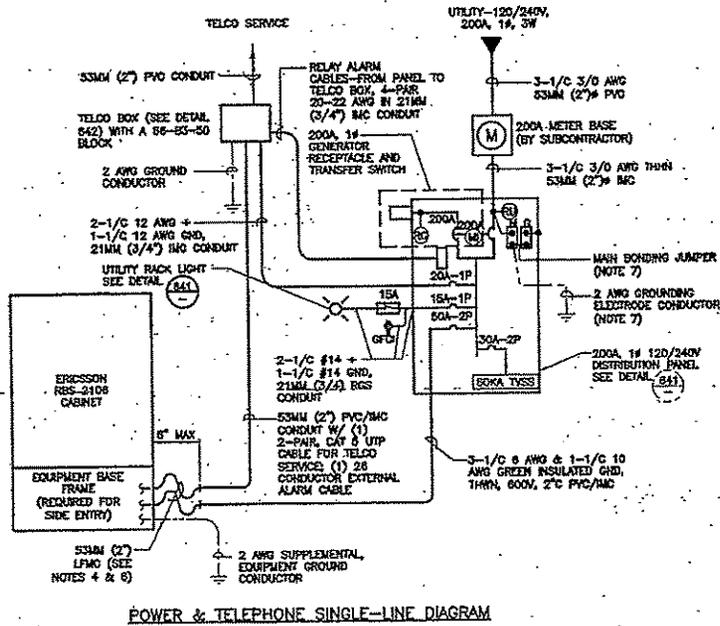
CINGULAR WIRELESS

ELECTRICAL NOTES AND DETAILS

24782-421	WV-306-10	3
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NOTES:

- SUBCONTRACTOR SHALL PROVIDE 200AMP, SINGLE PHASE, 120/240 VAC, 60HZ SERVICE FOR SITE.
- SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS.
- FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.
- SUBCONTRACTOR SHALL INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS, REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM MFC CONDUIT TO THE INTERIOR OF THE BTS CABINET.
- SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
- CUT, COIL AND TAPE A 3 FOOT PORTAL FROM END OF LFMC FOR TERMINATING BY BTS EQUIPMENT MANUFACTURER.
- SUBCONTRACTOR SHALL VERIFY THAT THE MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY WHEN PANEL IS SERVICE ENTRANCE EQUIPMENT.



POWER & TELEPHONE SINGLE-LINE DIAGRAM

DETAIL 643-VA
NTS

LEGEND:

- M = MECHANICAL INTERLOCK
- RU = RELAY TO MONITOR UTILITY POWER
- RG = RELAY TO MONITOR GENERATOR POWER



NOTES:

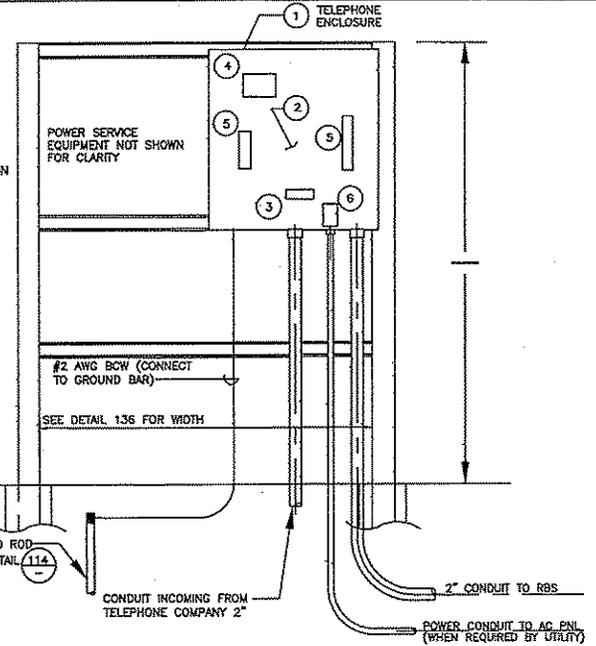
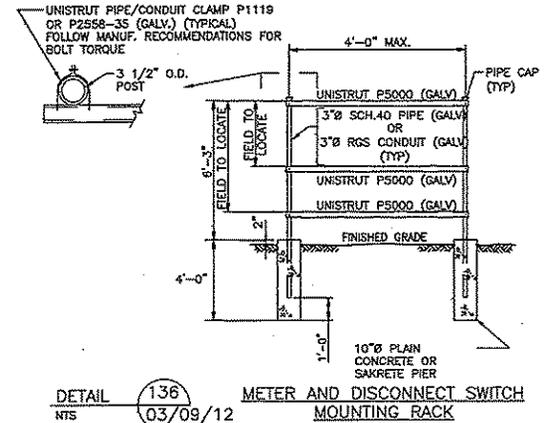
- COORDINATE WITH LOCAL TELCO UTILITY PRIOR TO PROCURING AND INSTALLATION OF BOX AND COMPONENTS.
- ALL MATERIAL SHALL MEET REQUIREMENTS OF LOCAL TELCO UTILITY.
- ITEM #4 SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR. BOND SURGE PROTECTION UNIT TO GROUND BAR WITH #6 AWG INSULATED WIRE.
- COORDINATE SIZE, TYPE AND QUANTITY OF ITEM(S) #5 WITH LOCAL UTILITY.
- INSTALL ITEM #6 ONLY IF REQUIRED BY UTILITY. RECEPTACLE POWERED FROM SPARE BREAKER IN DISTRIBUTION PANEL.
- PULL 6 PAIR ICXY PICK CABLES FROM HOFFMAN TELCO BOX TO SHELTER TELCO BOARD.

MATERIAL LIST:

- 20" X 20" X 8" NEMA 3R ENCLOSURE (HOFFMAN A-20R208KCR OR SIMILAR)
- PLYWOOD BACKBOARD 18" X 18" X 5/8" THICK EXTERIOR GRADE
- GROUNDING BAR (1/4"x4"x10") NEWTON INSTRUMENT CO. CAT NO. B-6142 OR EQUAL WITH A-6164 WALL BRACKET
- T1 SURGE PROTECTION DEVICE (USE AC DATA SYSTEMS PART #TJ1010B)
- TERMINAL BLOCK(S) OR T1 CONNECTOR(S)
- 6P DUPLEX RECEPTACLE (120VAC/20A)

TELEPHONE DEMARCATION ENCLOSURE

DETAIL 642
11



T:\Survey\SURVEY PROJECTS\31-BECHTEL\WV-306.dwg W:\306B-CDS.dwg 11/6/2007 8:16:30 AM EST



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, NY 41184



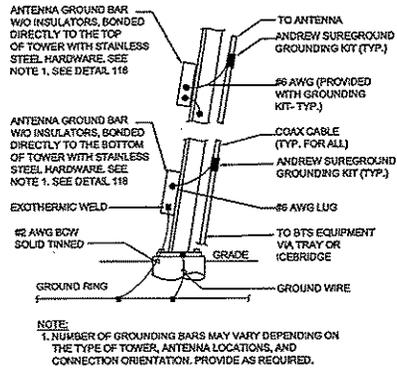
3	03/10/08	CHANGED TO OUTDOOR CABINETS	WKM	CCP	TTW
2	11/05/07	CHANGED RF DATA	WKM	CCP	TTW
1	09/14/07	ISSUED	WKM	CCP	TTW
0	08/07/07	PRELIMINARY	WKM	CCP	TTW
NO. DATE		REVISIONS	BY CHK APP'D		
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS

SINGLE LINE DIAGRAM AND DETAILS

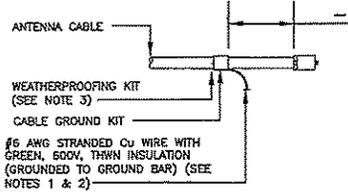
24782-421	DRAWING NUMBER	WV-306-11	3
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ANTENNA CABLE GROUNDING - SELF SUPPORTING TOWER

DETAIL 152
NTS 12

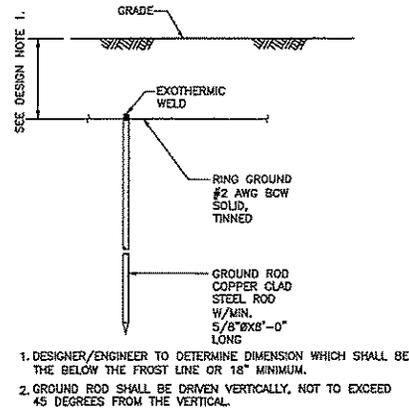


CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE

NOTES:

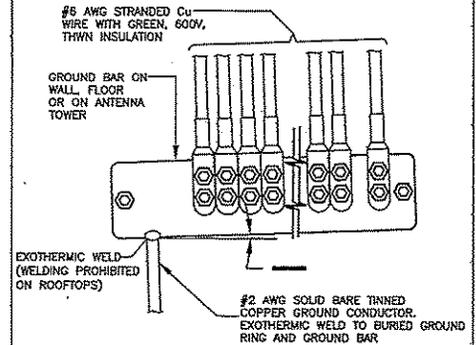
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

DETAIL 121
NTS 12



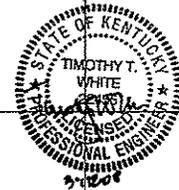
GROUND ROD

DETAIL 114
NTS 12

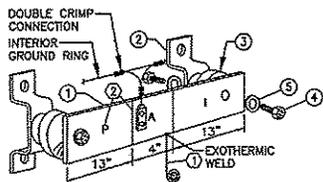


INSTALLATION OF GROUND WIRE TO COAX CABLE GROUND BAR

DETAIL 118
NTS



NEWTON INSTRUMENT COMPANY, INC. BUTNER, N.C.		
NO.	REQ.	DESCRIPTION
1	1	1/4"x4"x30" PRE DRILLED GND. BAR
2	2	A--6056 WALL MTG. BRKT.
3	2	3061-4 INSULATORS
4	4	3012-1 5/8"-11x1" H.H.C.S.
5	4	3015-8 5/8" LOCKWASHER



EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PROTECTORS

- CABLE ENTRY PORTS (HATCH PLATES) (#2)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2)
- TELECO GROUND BAR (#2)
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
- +24V POWER SUPPLY RETURN BAR (#2)
- 48V POWER SUPPLY RETURN BAR (#2)
- RECTIFIER FRAMES.
- COAX SUPPRESSION

SECTION "A" - SURGE ABSORBERS

- INTERIOR GROUND RING (#2)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
- BUILDING STEEL (IF AVAILABLE) (#2)

SECTION "I" - ISOLATED GROUND ZONE

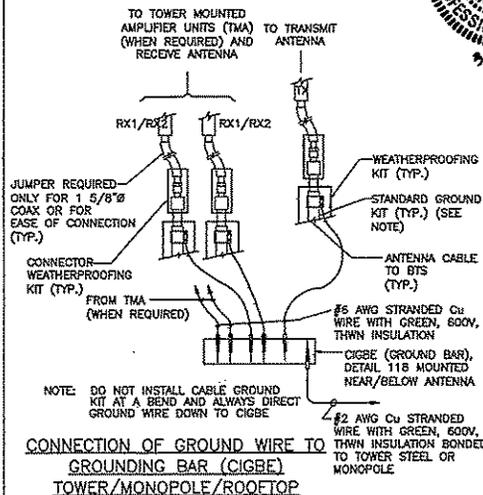
- ALL COMMUNICATIONS EQUIPMENT FRAMES.
- ISOLATED GROUND BAR - IGB (#2)

DETAIL NOTES: ○

1. EXOTHERMICALLY WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
2. USE PERMANENT MARKER TO DRAW THE LINES BETWEEN EACH SECTION AND LABEL EACH SECTION ("P", "A", "I") WITH 1" HIGH LETTERS.

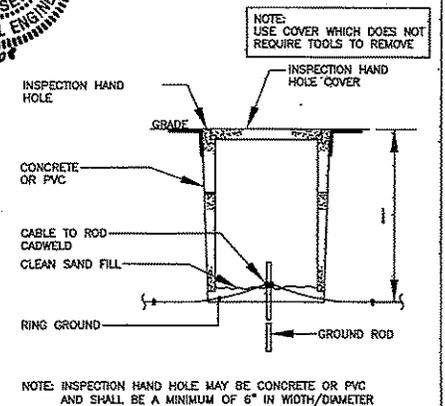
(RGB) REFERENCE GROUND BAR - DETAIL

DETAIL 119
NTS



CONNECTION OF GROUND WIRE TO GROUNDING BAR (CIGBE) TOWER/MONOPOLE/ROOFTOP

DETAIL 122
NTS



GROUND ROD WITH ACCESS AREA

DETAIL 644-VA
NTS



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164

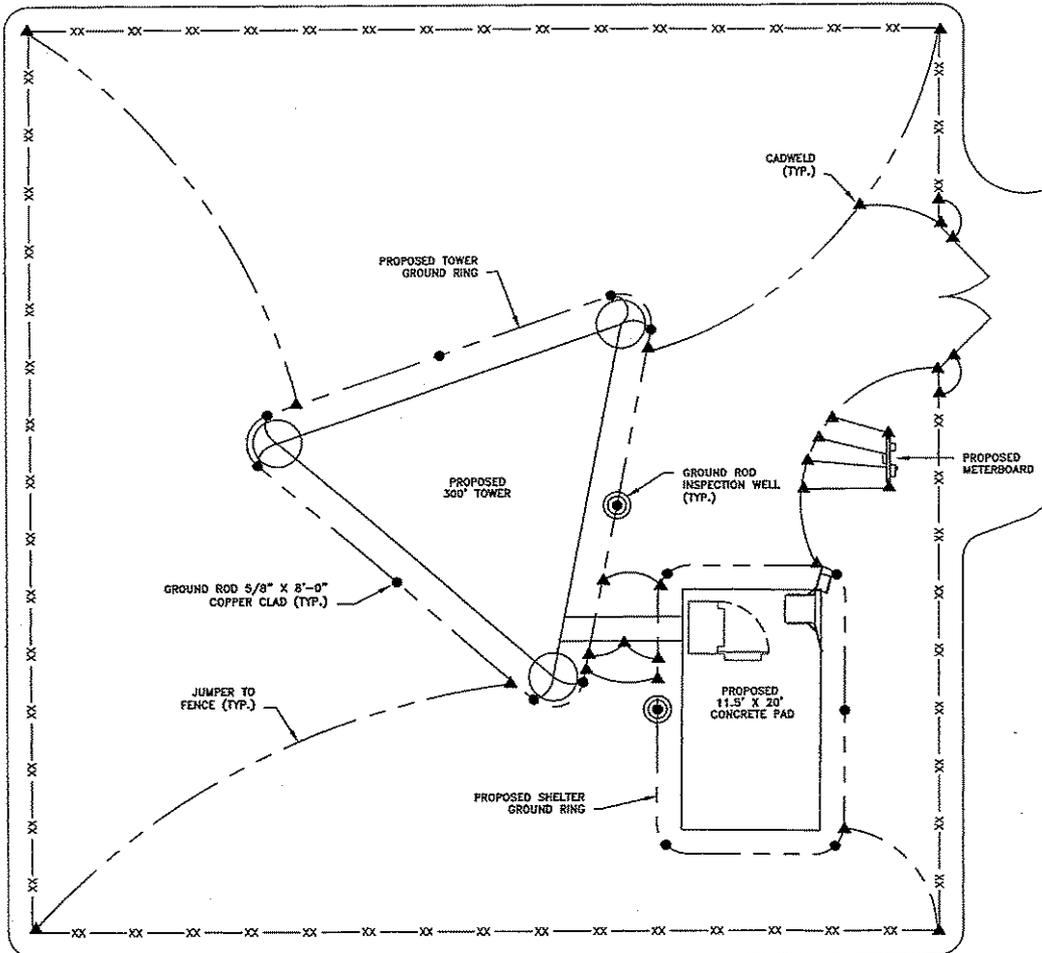


NO.	DATE	REVISIONS	BY	CHK	APPV
3	03/16/06	CHANGED TO OUTDOOR CABINETS	WVW	CCP	TWK
2	11/06/05	CHANGED REF DATA	WVW	CCP	TWK
1	02/14/05	ISSUED	WVW	CCP	TWK
0	05/02/05	PRELIMINARY	WVW	CCP	TWK

SCALE: AS SHOWN DESIGNED BY: WVM DRAWN BY: WVM

CINGULAR WIRELESS	
GROUNDING DETAILS	
NO.	REV
24782-421	WV-306-12
3	

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GROUNDING PLAN

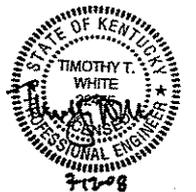
SCALE: 1" = 10'



GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
8. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
11. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
12. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
13. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
14. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
15. APPROVED ANTI-OXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
16. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
17. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
18. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
19. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.

DETAIL 621



TERRADON
Engineering - Surveying - Landscape Architecture
P.O. Box 518
Mills, West Virginia 26143
(304) 755-8281 FAX 755-2838
www.terradon.com

SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



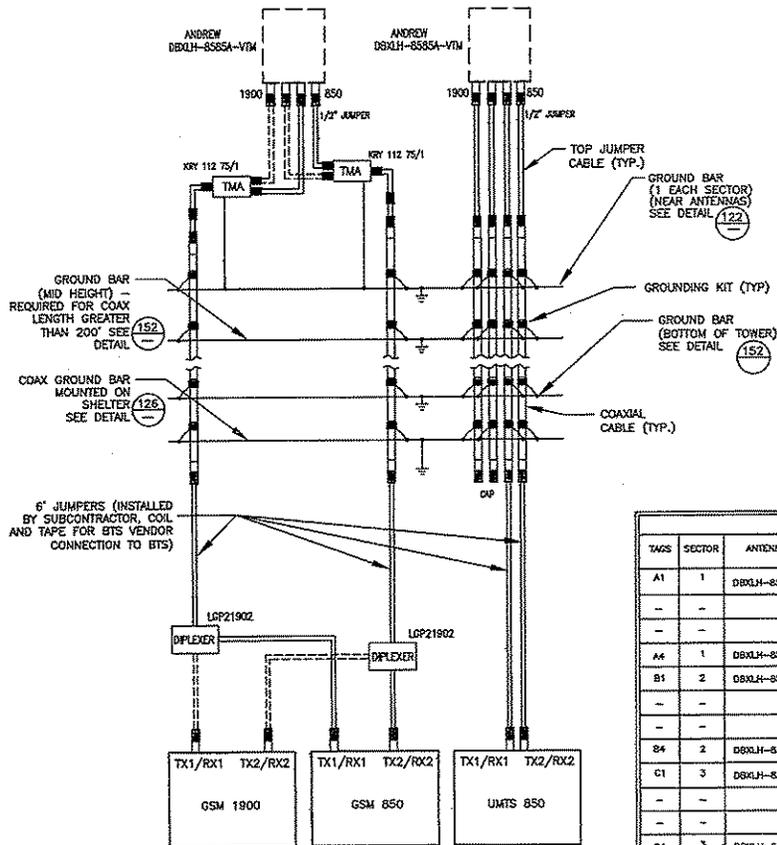
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2	11/08/07	CHANGED RF DATA	WJM	CSP	TTW
1	09/14/07	ISSUED	WJM	CSP	TTW
0	09/02/07	PRELIMINARY	WJM	CSP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY WJM	DRAWN BY WJM		

CINGULAR WIRELESS

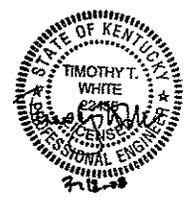
GROUNDING PLAN AND NOTES

DRAWING NUMBER	REV
24782-421	WV-306-14
	3

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- NOTES:**
1. ALL MATERIALS ON THE ABOVE TABLE SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUBCONTRACTOR FOR INSTALLATION.
 2. SUBCONTRACTOR SHALL AS-BUILT CABLE LENGTHS AND PROVIDE ANTENNA SERIAL NUMBERS ON RED-LINED DRAWINGS.
 3. ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWNTILT BRACKETS AND HEAVY DUTY CLAMPS SUPPLIED BY ANTENNA MANUFACTURER.
 4. FOLLOW DETAIL FOR CINGULAR COAX COLOR CODING.
 5. COAX GROUND KITS, COAX WEATHER PROOFING, SNAP-IN HANGER CLAMPS AND HOISTING GRIPS SHALL BE PROVIDED BY THE CONTRACTOR TO THE SUBCONTRACTOR FOR INSTALLATION.
 6. DESIGN AS PER RF BUILD SHEET (PRELIMINARY) ISSUED 05/06/07



ANTENNA AND COAXIAL CABLE SCHEDULE																
TAGS	SECTOR	ANTENNA TYPE	ANTENNA SERIAL NUMBER	MECH DOWN TILT	ELEC DOWN TILT	AZIMUTH	ANTENNA RAD CTR	ANTENNA TIP HEIGHT	CABLE LENGTH	COAXIAL CABLE	TOP JUMPER	BOTTOM JUMPER	COLOR CODE	TMA TYPE	DC BLOCK Y/N	DUPLEXER
A1	1	DBXLH-8585A-YTM		0°	2°	0°	290			(2)-ANDREWS 1-5/8" LDF4P	(6") 1/28 SF	(6") 1/28 SF	1 GREEN STRIPE 2 GREEN STRIPES	KRY112 75/1	N	LGP 21902
-	-	-	-	-	-	-	-	-	-	(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
A4	1	DBXLH-8585A-YTM		0°	2°	0°	290			(2)-ANDREWS 1-5/8" LDF4P	(6") 1/28 SF	(6") 1/28 SF	3 GREEN STRIPES 4 GREEN STRIPES	KRY112 75/1	N	LGP 21902
B1	2	DBXLH-8585A-YTM		0°	2°	120°	290			(2)-ANDREWS 1-5/8" LDF4P	(6") 1/28 SF	(6") 1/28 SF	1 BLUE STRIPE 2 BLUE STRIPES	KRY112 75/1	N	LGP 21902
-	-	-	-	-	-	-	-	-	-	(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
B4	2	DBXLH-8585A-YTM		0°	2°	120°	290			(2)-ANDREWS 1-5/8" LDF4P	(6") 1/28 SF	(6") 1/28 SF	3 BLUE STRIPES 4 BLUE STRIPES	KRY112 75/1	N	LGP 21902
C1	3	DBXLH-8585A-YTM		0°	2°	240°	290			(2)-ANDREWS 1-5/8" LDF4P	(6") 1/28 SF	(6") 1/28 SF	1 WHITE STRIPE 2 WHITE STRIPES	KRY112 75/1	N	LGP 21902
-	-	-	-	-	-	-	-	-	-	(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	(1)-ANDREWS 1-5/8"	-	-	-	-	-	-
C4	3	DBXLH-8585A-YTM		0°	2°	240°	290			(2)-ANDREWS 1-5/8" LDF4P	(6") 1/28 SF	(6") 1/28 SF	3 WHITE STRIPES 4 WHITE STRIPES	KRY112 75/1	N	LGP 21902

2 - ANTENNAS PER SECTOR CONFIGURATION
 DETAIL 019-RV
 NTS



SITE NAME: BLUEBERRY RIDGE
 SITE NO. WV306B
 BLUEBERRY RIDGE RD.
 OLIVE HILL, KY 41164



3	03/10/08	CHANGED TO OUTDOOR CABINETS	WJM	CFP	TTW
2	11/06/07	CHANGED RF DATA	WJM	CFP	TTW
1	09/14/07	ISSUED	WJM	CFP	TTW
0	06/07/07	PRELIMINARY	WJM	CFP	TTW
NO	DATE	REVISIONS	BY	CHK	APPV
SCALE:	AS SHOWN	DESIGNED BY:	WJM	DRAWN BY:	WJM

CINGULAR WIRELESS	
ANTENNA CONFIGURATION AND SCHEDULE	
DRAWING NUMBER	REV
24782-421	WV-306-15
	3

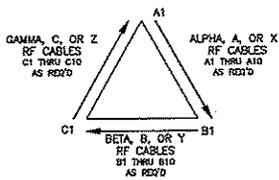
NOTES:

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION TO REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES—RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND SLATE(GREY). THESE TAPES SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- ALL COLOR CODE TAPE SHALL BE 3M-3S AND SHALL BE INSTALLED USING A MINIMUM OF (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOWER TOP SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACING BETWEEN EACH COLOR.
- ALL COLOR BANDS INSTALLED AT OR NEAR THE GROUND SHALL BE A MINIMUM OF 3/4" WIDE.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.

ALL RF CABLE SHALL BE MARKED AS PER CABLE MARKING LOCATIONS TABLE BELOW:

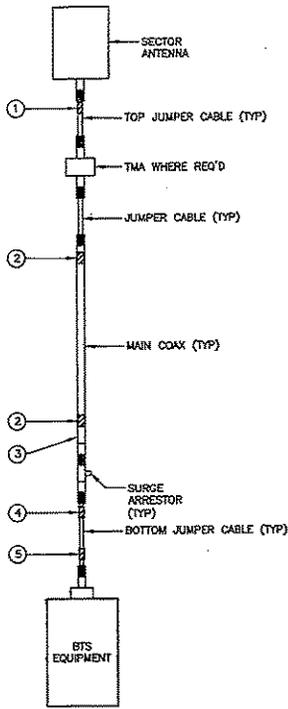
CABLE MARKING LOCATIONS TABLE		
NO.	TAPE TAG	LOCATIONS
1.	X	EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
2.	X	EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
3.	X	CABLE ENTRY POINT ON THE INTERIOR OF THE SHELTER. (IF SHELTER IS USED)
4.	X	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
5.	X	BASE OF TOWER
6.	*	ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

(* - DENOTES TAG OR TAPE.)



ANTENNA SECTOR AND CABLE DEFINITION

SECTOR	CABLE MARKING COLOR TABLE					
	CABLE A1	CABLE A2	CABLE A3	CABLE A4	CABLE A5	CABLE A6
SECTOR ALPHA, A, X	1 GREEN	2 GREEN	3 GREEN	4 GREEN	5 GREEN	6 GREEN
SECTOR BETA, B, Y	1 BLUE	2 BLUE	3 BLUE	4 BLUE	5 BLUE	6 BLUE
SECTOR GAMMA, C, Z	1 WHITE	2 WHITE	3 WHITE	4 WHITE	5 WHITE	6 WHITE



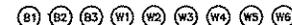
CABLE MARKING LOCATIONS DIAGRAM

DETAIL 636-VA
NTS

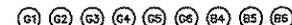
COAXIAL LADDER ASSIGNMENT

9 x 9 STACKED APPLICATION

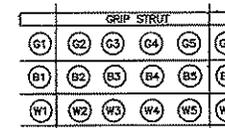
LEFT TO RIGHT FACING LADDER (1ST LAYER AGAINST LADDER)



LEFT TO RIGHT FACING LADDER (OUTSIDE LAYER)



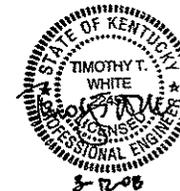
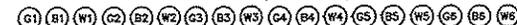
COAXIAL ORIENTATION ON TRAPEZE



COAXIAL LADDER ASSIGNMENT

NOT STACKED APPLICATION

LEFT TO RIGHT (FACING TOWER)



SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



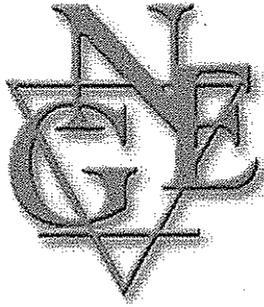
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2	11/06/07	CHANGED RF DATA	WKM	CCP	TW
1	06/14/07	ISSUED	WKM	CCP	TW
0	04/07/07	PRELIMINARY	WKM	CCP	TW
NO.	DATE	REVISIONS	BY	CHK	APPV
SCALE: AS SHOWN		DESIGNED BY: WKM	DRAWN BY: WKM		

CINGULAR WIRELESS

COAX COLOR CODING

24782-421	DRAWING NUMBER	3
WV-306-16		





**FOUNDATION INVESTIGATION
PROPOSED BLUEBERRY RIDGE TOWER SITE
OLIVE HILL, KENTUCKY**

NOVEL GEO-ENVIRONMENTAL PROJECT NO. W07097

SUBMITTED TO:

**TERRADON CORPORATION
NITRO, WEST VIRGINIA**

SUBMITTED BY:

**NOVEL GEO-ENVIRONMENTAL, PLLC
ST. ALBANS, WEST VIRGINIA**

SEPTEMBER 2007



Novel Geo-Environmental, PLLC

806 B Street • St. Albans, WV 25177
304-201-5180 • Fax: 304-201-5182

September 19, 2007

Mr. Curtis Paxton
Terradon Corporation
P.O. Box 519
Nitro, WV 25143

Subject: **FOUNDATION INVESTIGATION**
Proposed Blueberry Ridge Tower Site
Olive Hill, Kentucky
Novel Geo-Environmental Project No. W07097

Dear Mr. Paxton:

In accordance with your request, we have performed a foundation investigation for the proposed Blueberry Ridge tower site located in Olive Hill, Kentucky. Authorization to proceed with this project was provided by your acceptance of Novel Proposal No. PW07591 dated August 30, 2007.

This report presents the results of the field investigation performed to determine the subsurface conditions, as well as our conclusions and recommendations concerning the foundations for the tower structure and equipment shed.

We appreciate the opportunity to assist you on this project and trust this report satisfies your needs at this time. Please feel free to contact us if you have any questions concerning this report, or if we can provide any further assistance.

Sincerely,

NOVEL GEO-ENVIRONMENTAL, PLLC

Charles E. Montgomery, P.G.
Project Geologist

Larry C. Nottingham, Ph.D., P.E.
Senior Engineer

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FIGURES

1.0 PROJECT DESCRIPTION

The foundation investigation was performed for a proposed communications tower to be constructed near Olive Hill, Kentucky. The purpose of the investigation was to determine subsurface conditions and provide foundation design recommendations. The proposed tower site is situated on a wooded hillside area located just off Blueberry Ridge Road. According to information provided by the client, the proposed tower will be a three-legged self supporting structure approximately 300 ft. tall located within an enclosed compound. A small pre-manufactured equipment shed will also be located within the compound. Grading plans provided by the client indicate areas of both cut and fill will be required to achieve desired final grade.

2.0 DRILLING AND SAMPLING PROCEDURES

Three test borings were drilled to evaluate subsurface conditions at the site. Two borings were originally planned, however, Boring B-1 had to be offset and re-drilled after encountering a boulder in the shallow subsurface. The borings were extended to depths ranging between 6.0 and 35.9 ft. below the ground surface. The center of the tower and property lease corners had been previously staked by the client.

The test borings were drilled using a track-mounted rotary drilling rig equipped with 3-1/4 inch I.D. hollow stem augers. Standard penetration testing and sampling was performed at 2.5 ft. intervals from the ground surface to refusal on bedrock. The standard penetration testing and sampling was performed in accordance with ASTM D-1586.

Standard penetration testing is performed by driving a 2.0 inch O.D. split-barrel sampler into the soil with a 140-lb. hammer dropping a distance of 30 inches. The sampler is driven a distance of 18 inches in three 6-inch increments, and the number of blows required to produce the last two 6-inch increments of penetration is termed the Standard Penetration Number or "N" value. These values provide an indication of the consistency or relative density of the soil.

A 1-3/8 inch diameter soil/rock sample was obtained from the borings in conjunction with each penetration test. All standard penetration samples were placed in air-tight glass jars. Upon completion of drilling, all samples were delivered to our laboratory for further examination. Soil and rock descriptions, standard penetration numbers, and other pertinent subsurface information are provided on the boring logs (Figure Nos. 2 through 4).

3.0 SUBSURFACE CONDITIONS

Test boring logs providing detailed information at the boring locations are located in the back of this report (Figure Nos. 2 through 4). A summary of the subsurface conditions encountered in the test borings follows:

3.1 SOIL AND BEDROCK CONDITIONS

Borings B-1 and B-1A were drilled at the center of the proposed tower. Beneath the 0.5 layer of surface soil, brown sandy silt with rock fragments was encountered. A sandstone boulder was encountered in the shallow subsurface in both of these borings. Boring B-1 was abandoned at a depth of 6.0 ft. due to drilling difficulties associated with the boulder. Shale bedrock was encountered below the boulder in Boring B-1A at a depth of approximately 5.5 ft. Based on visual observation, penetration and augering resistance, the shale was very soft, weathered and fissile. The shale was underlain by gray claystone at a depth of 31.5 ft. The boring was terminated in the claystone at a depth of 35.9 ft. below the ground surface.

In Boring B-2, which was drilled to assess conditions in the vicinity of the equipment shed, brown sandy clay with rock fragments was encountered below the 0.5 ft. layer of surface soil. Standard penetration N-values indicate the clay to be in a stiff to very stiff cohesive soil condition. Bedrock consisting of brown to gray weathered clayey shale was encountered below the clay at a depth of approximately 4.0 ft. The boring was terminated in the shale at a depth of 8.5 ft.

3.2 GROUNDWATER CONDITIONS

All of the borings were noted to be dry during drilling operations and shortly after boring completion. It should be noted that groundwater levels typically fluctuate and are generally dependent upon climatic conditions. Groundwater conditions at the time of construction may differ from those observed during our investigation. The borings were backfilled with auger cuttings upon completion of the drilling.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 SITE PREPARATION RECOMMENDATIONS

All vegetation and topsoil should be removed prior to beginning site grading. Any underground utility lines located in the structure area should be removed and/or relocated. All voids created by removal of underground items should be properly backfilled in accordance with Section 4.2 of this report. Adequate surface water drainage should be provided during construction and after construction is completed. The site should be graded such that surface water flows away from structures. Soil should slope away from structures at a minimum ten percent slope for at least 10 ft. from the foundations.

4.2 FILL AND BACKFILL RECOMMENDATIONS

Any fill or backfill required should be placed in maximum 8-inch loose lifts and compacted to 95% of the maximum dry density as determined by the standard Proctor laboratory test (ASTM D-698). Each layer of fill or backfill should be tested by a qualified geotechnical engineering firm to determine that adequate compaction has been achieved prior to placement of additional fill lifts. Fill or backfill should consist of non-organic soil/rock material with a maximum particle size of 4 inches in any direction. The moisture content of fill material should be within three percent of the optimum moisture content as determined by a standard Proctor test.

We recommend fill slopes be configured no steeper than 2:1 (H:V). Fill construction should begin on a minimum 10 ft. wide bench excavated to bedrock below the toe of the fill slope. A series of benches excavated into the bedrock should be constructed to provide a stable foundation for the new fill placement. Fill placement should begin on the lowest bench and proceed upward by placement of level, uniform lifts. The construction of the fill benches and placement of fill should be inspected by our firm. The fill slope should be seeded and mulched as soon as possible after final grading to reduce soil erosion and the potential for shallow slips.

4.3 EXCAVATION CONSIDERATIONS

Any excavation in which workers are required to enter must be properly shored or sloped in accordance with OSHA regulations. Any water which collects within excavations should be promptly removed by pumping from a strategically located sump(s).

Based on the provided drawings, a maximum cut slope of approximately 7 ft. in height will be required to achieve the desired grade. We recommend cut slopes in existing clayey soil be constructed no steeper than 2:1 (H:V). The portion of the cut slope within bedrock can be sloped at 1.5:1 (H:V). As recommended for the fill slope, cut slopes should be seeded and mulched as soon as possible following final grading to reduce erosion. We highly recommend that contractors be advised to perform their own investigation as to the ease of excavation and type of equipment required prior to submitting bids.

4.4 FOUNDATION RECOMMENDATIONS

Tower Foundations

Based on subsurface conditions encountered at the site, the proposed tower can be supported on either drilled concrete caissons or a reinforced concrete mat foundation. Recommendations for both are provided below:

Option No. 1 - Drilled Concrete Caissons

Drilled concrete caissons socketed into bedrock would provide a suitable foundations for support of the tower. The tip of the caissons should be extended to a minimum depth of 20 ft. below the elevation of the existing ground surface. We recommend an allowable tip bearing pressure of 15 ksf be used to design the caissons socketed into the bedrock as recommended. All caissons should be plumb to within two percent of their length. Following completion of the rock socket drilling, the caisson bottom should be thoroughly cleaned such that no excessive amount of sediment, soil, or loose rock is present prior to placement of steel reinforcement and concrete. The bottom of each caisson should be inspected immediately prior to placing concrete by a qualified geotechnical engineer. We recommend concrete be placed within 48 hours of completion of drilling to reduce softening of the rock bearing surface.

Concrete placement under dry conditions can be by a free-fall method with the concrete carefully directed down the center of the caisson without striking the casing, the reinforcing steel, or the sides of the rock socket. Concrete with a slump of 4 to 7 inches is recommended for use in caissons constructed by the dry method. At the time of concrete placement, the depth of water in the bottom of the rock socket should not exceed two inches.

In addition to providing resistance to compressive forces, the caisson foundation system must also resist uplift forces from overturning wind loads. We recommend the following formula be used to calculate the uplift resistance of the foundations:

$$T = (F_t) \times (A_s) + W_f$$

Where:

T = Ultimate Uplift Capacity (lbs)

F_t = Skin Friction of Bedrock Socket in Tension (psf)

A_s = Caisson Bedrock Socket Surface Area (sq. ft.)

$$A_s = \pi D L_s$$

Where $\pi = 3.14$, D = Diameter of rock socket, L_s = Length of rock socket

W_f = Weight of the Caisson Foundation (lbs.)

Only the portion of the caisson socketed into bedrock below a depth of 5 ft. from the existing ground elevation should be considered when calculating uplift resistance of the caissons. We recommend a factor of safety of at least 2.0 be applied to the ultimate uplift capacity calculated using the above formula. We recommend an ultimate skin friction value (F_t) of 1,500 psf for the portion of the concrete caisson socket in bedrock.

Option No. 2 - Concrete Mat Foundation

If desired, the proposed tower structure can be supported using a reinforced concrete mat foundation bearing on bedrock. We recommend the foundation bear at a minimum depth of 6.5 ft. below the existing ground surface. The foundation bearing at or below this depth can be designed using a maximum allowable bearing pressure of 7 ksf. All loose material should be completely removed from the completed foundation excavation prior to placing concrete. We recommend our engineer inspect the completed foundation excavation prior to placing concrete to ensure adequate bearing conditions are present. A minimum of 3.0 ft. of soil cover should be provided over the foundation for frost protection.

The bedrock bearing material present at the site is susceptible to softening if left exposed to air and/or standing water for an extended period of time. Therefore, footing concrete should be placed promptly after completion of the foundation excavation.

The spread foundation for the tower should be designed to provide an adequate safety factor against uplift, sliding, and/or overturning. Spread foundation uplift/overturning resistance is provided by the weight of the concrete foundation and overlying soil. In computing the weight of the overlying soil, a soil unit weight of 115 pcf should be used, and the limits of the soil mass effective in resisting uplift loads should be taken as that extending upward and outward from the top of the footing at an angle of 30 degrees with the vertical. A factor of safety of at least 1.25 should be applied to the weight of the soil and concrete foundation when determining the allowable uplift capacity. All backfill placed over the foundation which will be relied on to provide uplift resistance should be placed in accordance with Section 5.2 of this report.

Lateral loads on the spread foundation will be resisted by passive resistance of the bedrock immediately adjacent to the foundation and friction along the foundation base. We recommend an allowable lateral resistance for spread foundations whose sides are in complete contact with shale bedrock of 2,000 psf. Passive resistance of the soil overburden should be neglected. We recommend an ultimate base sliding friction factor of 0.70 be used to compute ultimate friction resistance along the base of the foundation placed directly on clean sound bedrock.

Equipment Shed

According on information provided to us, the equipment shed will bear on a concrete slab-on-grade foundation. We anticipate the slab will bear on either new fill or existing clay soils. Either of these material will provide adequate support for the structure. We recommend a maximum allowable bearing pressure of 2,500 psf be used for design of the foundation. The edges of the concrete slab should be turned down to provide at 30 inches of frost protection for the base of the foundation. Additionally, it should be noted that boulders were encountered in the shallow subsurface during the

drilling investigation. If any portion of the concrete slab is bearing in natural soil, any boulders encountered during the foundation investigation should be removed and the resulting void backfilled in accordance with recommendations provided in Section 4.2 of this report.

4.4.1 SETTLEMENT CONSIDERATIONS

As discussed in the previous sections, we recommend foundations for the tower be constructed to bear on bedrock. Total and differential settlement of foundations constructed to bear on bedrock should be negligible. We estimate settlement of the equipment shed foundation will be on the order of 1 inch or less.

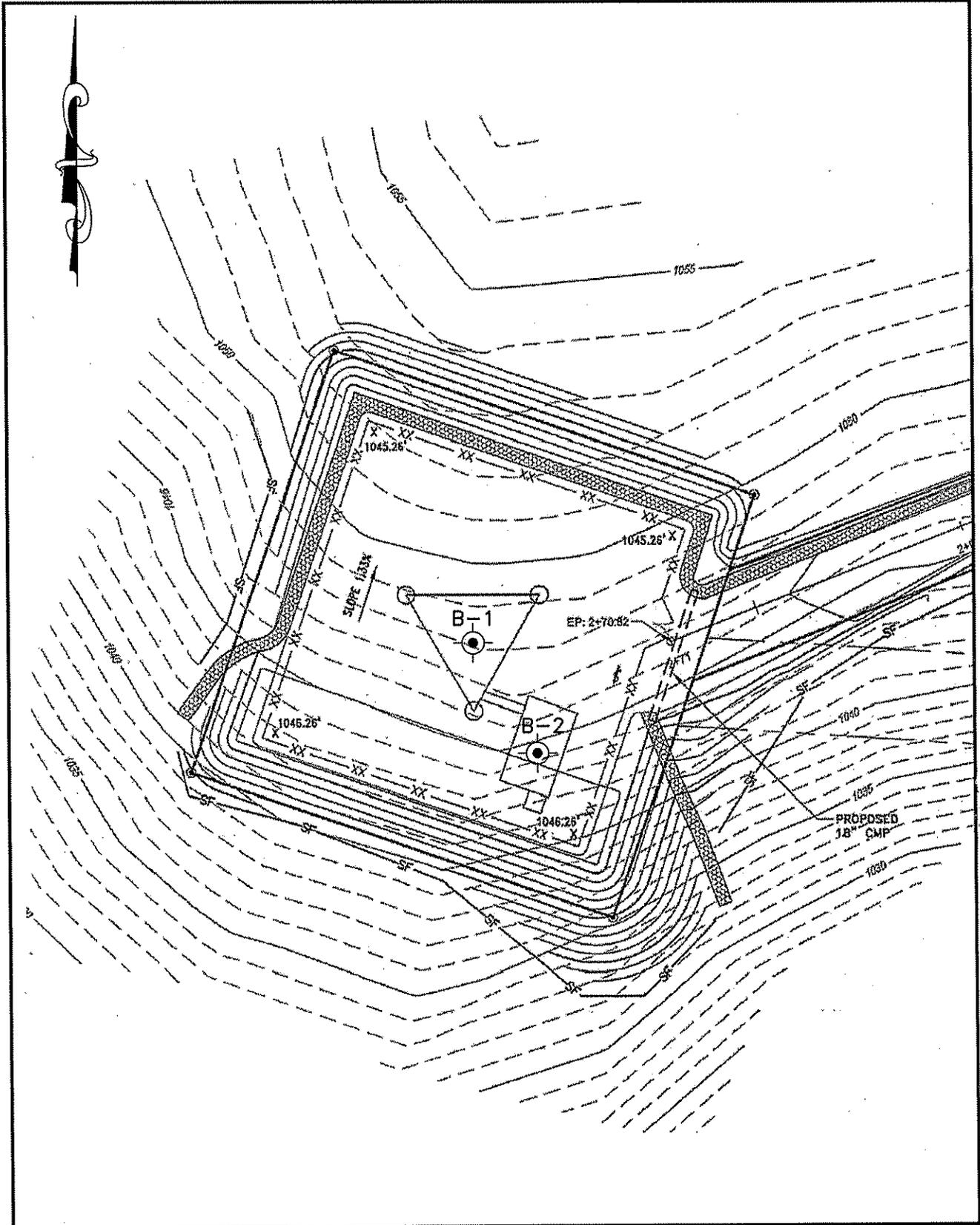
4.5 ENGINEERING INSPECTIONS AND QUALITY ASSURANCE

Fill placement and compaction should be monitored by a qualified geotechnical engineering firm to verify the suitability of the fill and that compaction requirements are met. Foundation excavations should be inspected by our geotechnical engineer to verify that adequate bearing materials are present.

5.0 LIMITATIONS

1. This work has been prepared for the exclusive use of Terradon Corporation for use in planning and design of the proposed Blueberry Ridge tower to be located in Olive Hill, Kentucky. The work has been performed in accordance with generally accepted geotechnical engineering practices. No other warranty, expressed or implied, is made.
2. In the event that changes in the nature, design or location of the proposed structures are planned, the conclusions and recommendations presented in this report should not be considered valid unless we have reviewed the changes and modified or verified our conclusions and recommendations.
3. The conclusions and recommendations contained in this report are based in part on the data obtained from the borings and our field observations. The nature and extent of the variations between borings and observation locations may not be evident until construction. If variations become evident during construction, we should be contacted in order that actual conditions can be reviewed and applicable conclusions and recommendations can be re-evaluated.

Figures



Novel
Geo-Environmental, LLC
806 B Street
St. Albans, West Virginia 25177
(304) 201-5180 FAX (304) 201-5182

Project		BORING LOCATION PLAN OLIVE HILL TOWER CARTER COUNTY, KENTUCKY	
Job No.	Scale	Dwg. No.	FIGURE 1
W07097	1" = 30' Date 9/17/2007		



**Novel
Geo-Environmental**

Project Name: **Blueberry Ridge Tower
Olive Hill, Kentucky**

BORING NO.

Project Number: **W07097**

B-1

Depth, feet	Sample Type	Symbol / USCS	Location: See Figure 1 Offset:		Recovery %	RQD	Penetration Blows / 6 inches	Silt and Clay %	PL(%) NM(%) LL(%)					
			Surface El.: ---						10	20	30	40		
			MATERIAL DESCRIPTION											
			TOPSOIL		0.5									
			Brown SANDY SILT with rock fragments, moist, hard											
			- sandstone boulder (0.6 - 4.0 ft.)											
5			- boring abandoned @ 6.0 ft. due to tools binding				8-16-38							>>
			Bottom of Test Boring @ 6.0 ft.		6.0									
10														
15														
20														

LOG OF BORING 1, W07097.GPJ, NGELOG.GDT, 9/19/07

Completion Depth:	6.0 ft.
Date Boring Started:	9/5/07
Date Boring Completed:	9/5/07
Engineer/Geologist:	GB
Driller:	NOVEL

Remarks:

Depth to Water @ 24 hrs.: ---



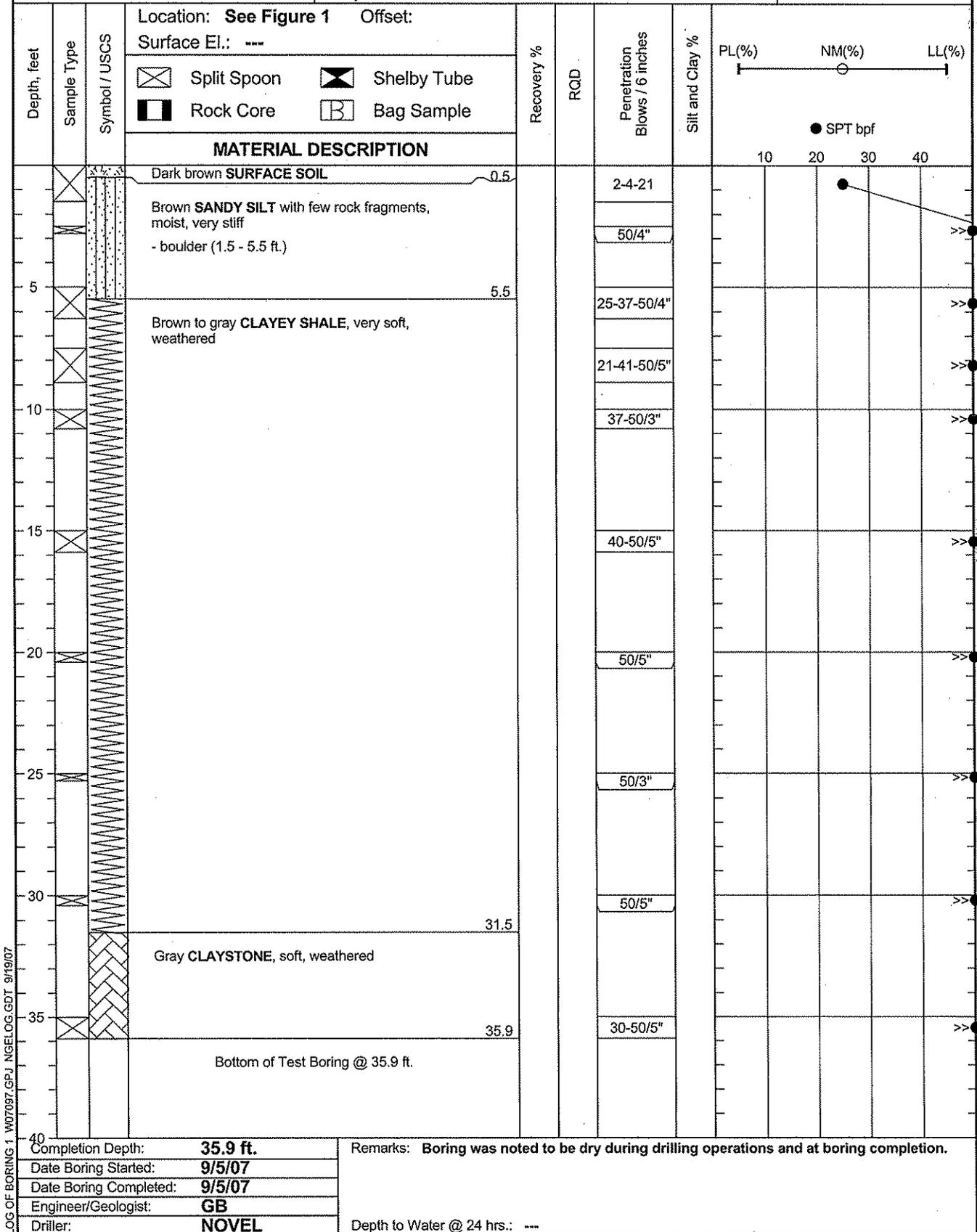
**Novel
Geo-Environmental**

Project Name: **Blueberry Ridge Tower
Olive Hill, Kentucky**

BORING NO.

Project Number: **W07097**

B-1A

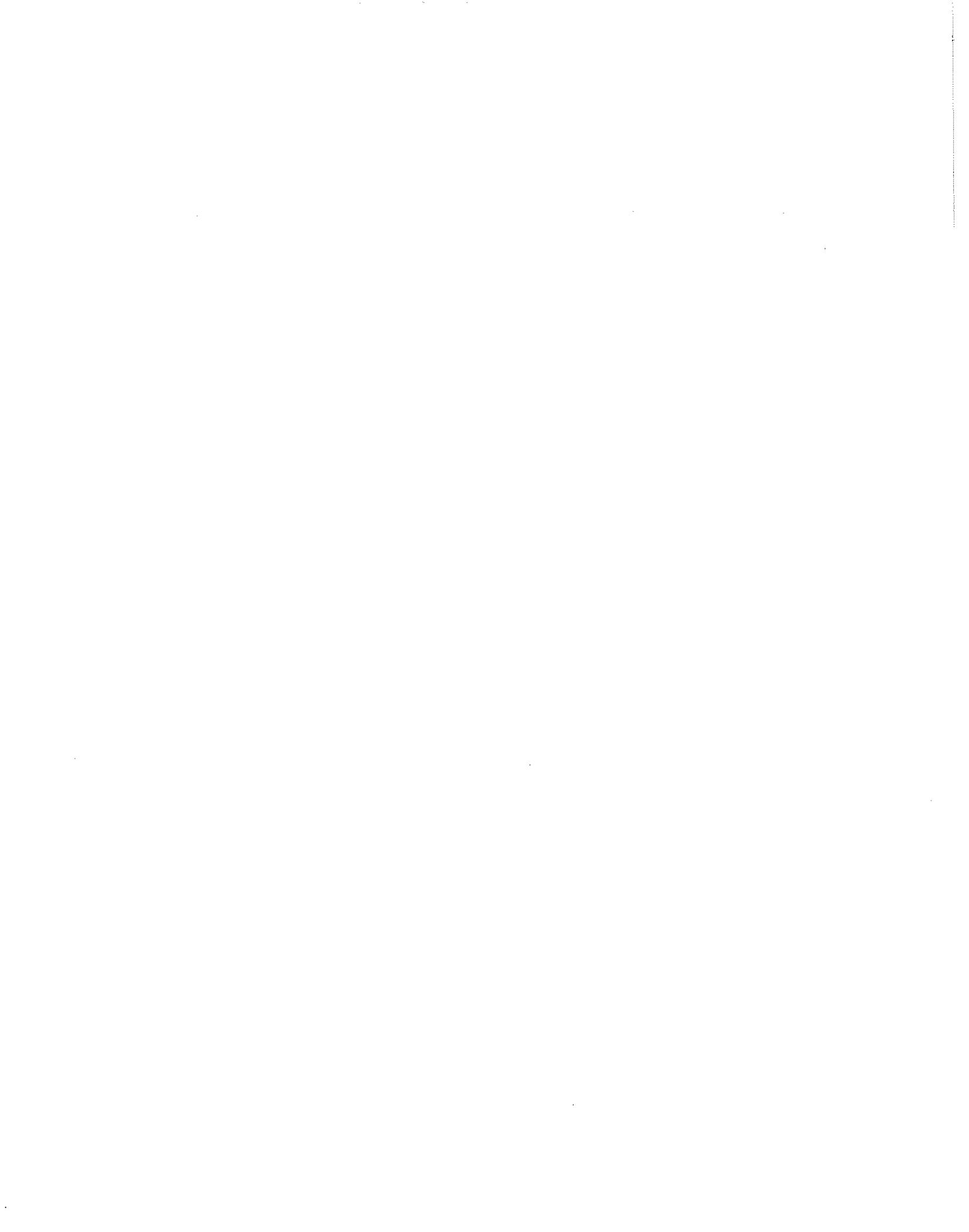


LOG OF BORING 1 W07097.GPJ NGELOG.GDT 9/19/07

Novel Geo-Environmental

The stratification lines represent approximate strata boundaries. In situations, the transition may be gradual.

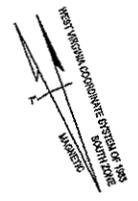
Figure 3



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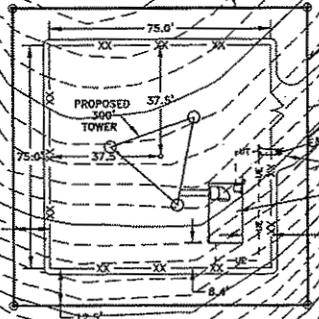
- LEASE LINE
- - - EXISTING FENCE
- FOUND MONUMENTATION
- BENCH MARK
- CALCULATED POINT
- TELEPHONE OR ELECTRIC RISER
- UTILITY POLE



RICHARD A. & NADINE
STALLNARD
TAX MAP 23, PARCEL 106
DEED BOOK 152, PAGE 488
(TRACT 1)

BLUEBERRY RIDGE RD.

EXISTING BARN

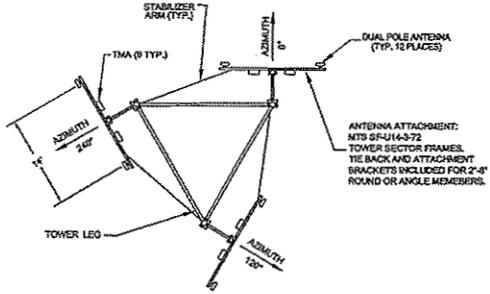


SITE PLAN

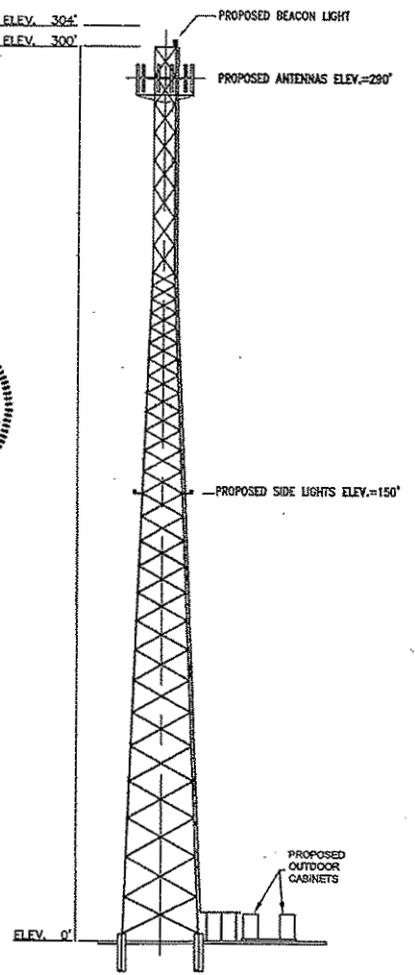
SCALE: 1" = 40'



CALL BEFORE YOU DIG,
DRILL OR BLAST!
B.U.G. OF KENTUCKY
1-800-725-6007



PLAN VIEW
TOWER MOUNTING DETAIL
THREE ANTENNA PER SECTOR WITH STANDOFF
HORIZONTAL SEPARATION CONFIGURATION



TOWER ELEVATION
SCALE: NO SCALE

TERRADON
Engineering - Surveying - Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25145
(304) 735-8281 FAX 735-2856
www.terraddon.com

SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



3	25/10/04	CHANGED TO OUTDOOR CABINETS	WJW	CCP	TTW
2	11/06/07	CHANGED RF DATA	WJW	CCP	TTW
1	09/14/07	ISSUED	WJW	CCP	TTW
0	06/07/07	PRELIMINARY	WJW	CCP	TTW
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WJW	DRAWN BY: WJW		

CINGULAR WIRELESS	
SITE PLAN & TOWER ELEVATION	
DRAWING NUMBER	DATE
24782-421	WV-306-04
	3

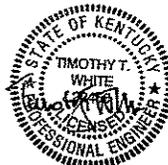
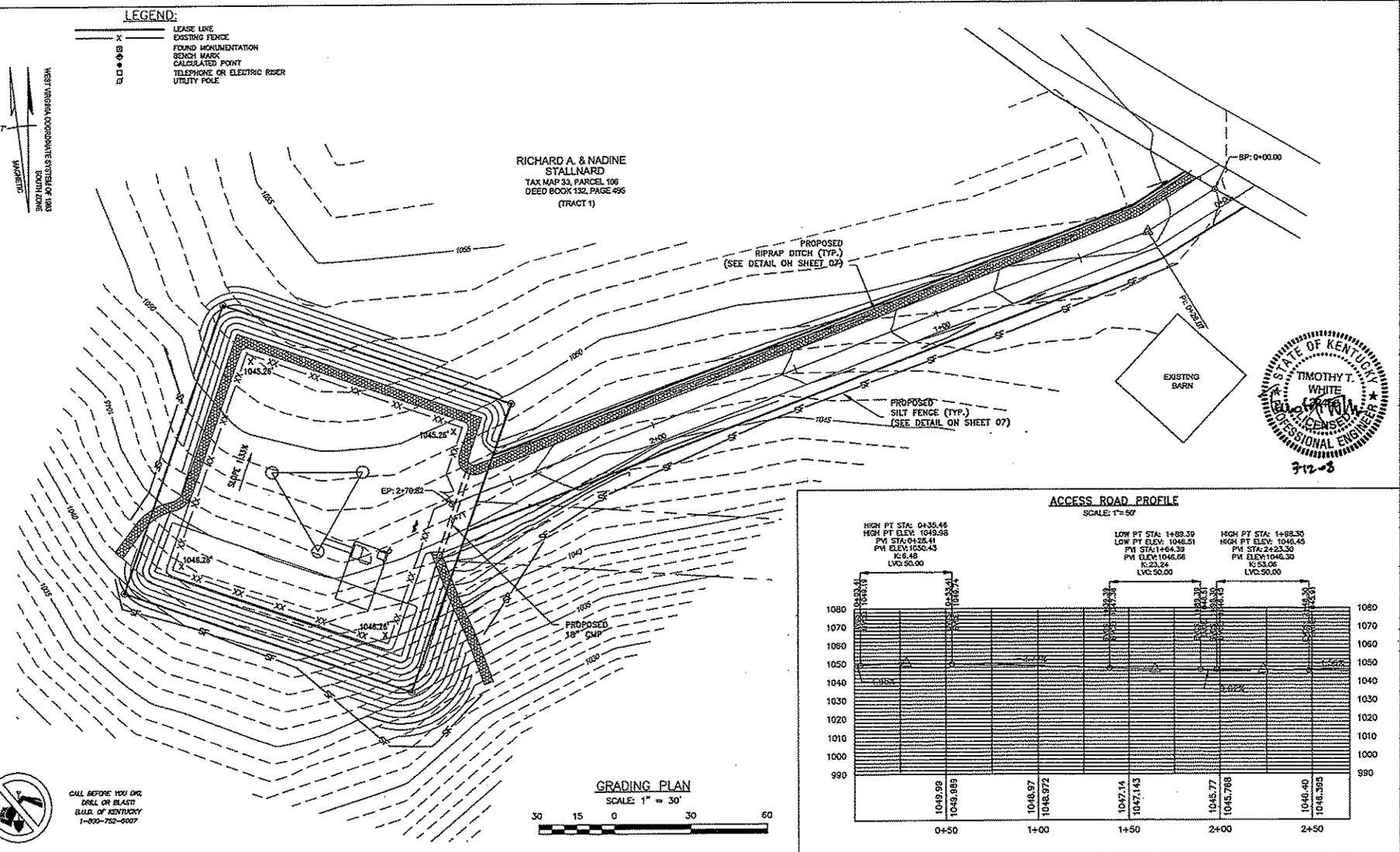
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LEGEND:

- LEASE LINE
- X- EXISTING FENCE
- FOUND MONUMENTATION
- SENCH MARK
- CALCULATED POINT
- TELEPHONE OR ELECTRIC RISER
- UTILITY POLE



RICHARD A. & NADINE
STALLNARD
TAX MAP 33, PARCEL 106
DEED BOOK 132, PAGE 496
(TRACT 1)



CALL BEFORE YOU DRILL OR BLAST!
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1-800-752-0007

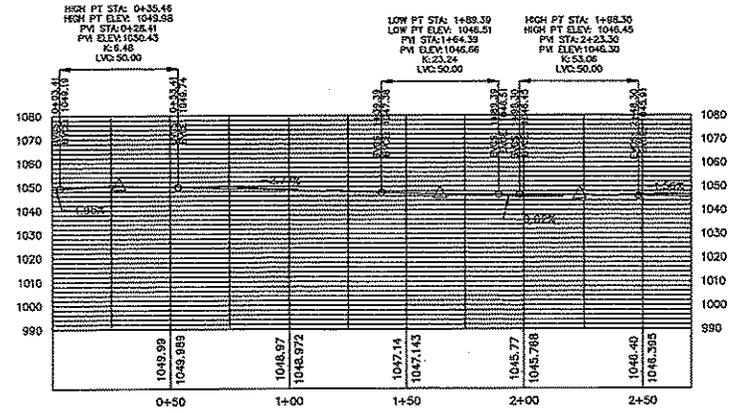
GRADING PLAN

SCALE: 1" = 30'



ACCESS ROAD PROFILE

SCALE: 1" = 50'



TERRADON
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P.O. Box 519
Mtn. West Virginia 26143
(304) 255-6291 FAX 758-2636
www.terradon.com

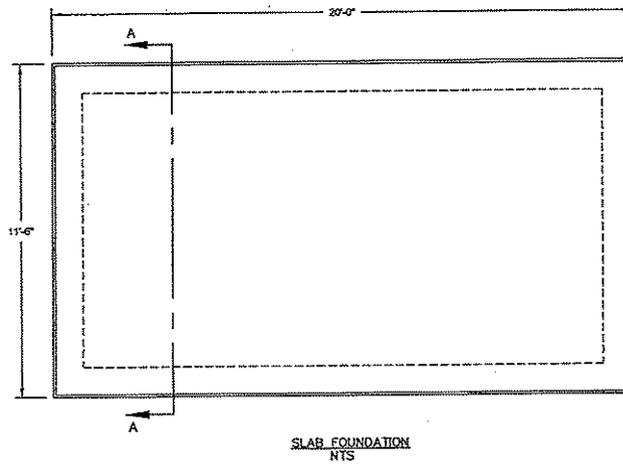
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SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



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NO.	DATE	REVISIONS	BY	CHK	APP'D
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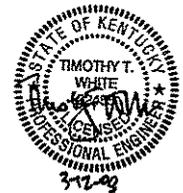
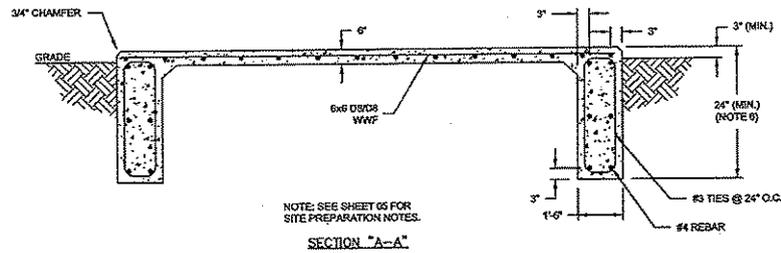
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24782-421	WV-306-05
DATE	3

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NOTES:

1. CONCRETE STRENGTH SHALL BE A MINIMUM OF 4000 PSI.
2. SLAB TO BE LEVEL AND FLAT.
3. FOOTING SHALL EXTEND TO DEPTH SHOWN OR BEAR ON SOLID ROCK IF ENCOUNTERED DURING EXCAVATION.



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P.O. Box 519
Nilo, West Virginia 25143
(504) 735-8291 FAX 753-2658
www.terradon.com

SITE NAME: BLUEBERRY RIDGE
SITE NO. WV306B
BLUEBERRY RIDGE RD.
OLIVE HILL, KY 41164



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NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: WOM	DRAWN BY: WOM		

CINGULAR WIRELESS

FOUNDATION DETAILS

24782-421	WV-306-06	3
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PUBLIC NOTICE

MAILED TO LANDOWNERS, RESIDENTS, AND LOCAL PLANNING UNIT

On March 21, 2008, New Cingular Wireless PSC, LLC ("Cingular") will apply to the Public Service Commission of Kentucky for a Certificate Of Public Convenience And Necessity To Construct A Wireless Communications Facility in Carter County, Kentucky and called the Cannonsburg Cell Site, Site #WV306B. Cingular may install and employ a Temporary Wireless Communications Facility, at or near the above Cell Site, during the pendency of the above Uniform Application. The facility will be located at Blueberry Ridge Road, Carter County, Kentucky.

This notice is being sent to you because you own property that is located within a 500 foot radius of the proposed tower or you are the Carter County Judge Executive for this facility in Carter County.

The Public Service Commission invites your comments regarding the proposed construction by Cingular. Also, the Commission wants you to be aware of your right to intervene in this matter. That right must be exercised within 20 days of the date you receive this notice. Your comments and requests for intervention should be addressed to:

Beth A. O'Donnell
Executive Director
Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

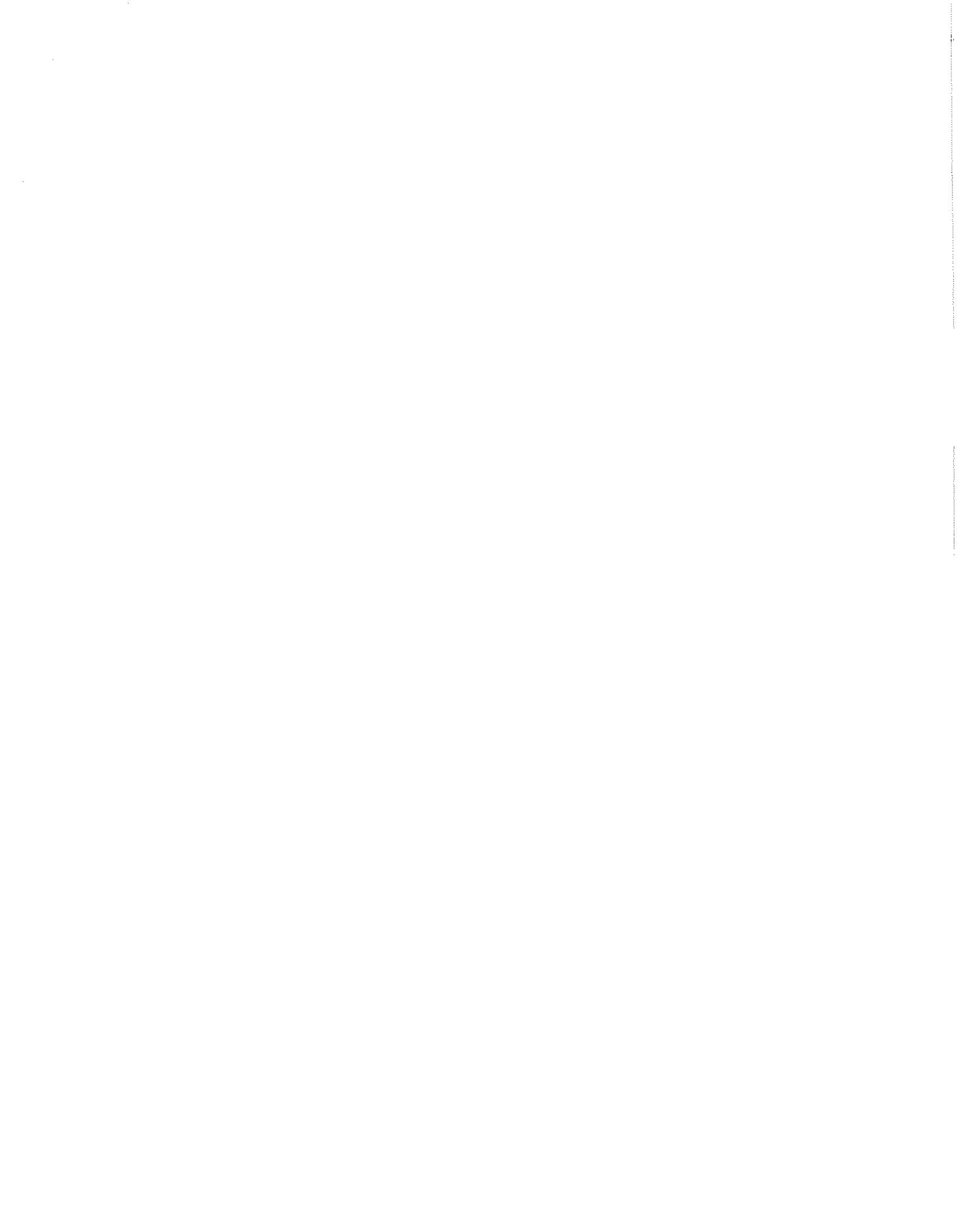
Please refer to Case No. 2008-00084 in your correspondence.

If you have any questions regarding this matter, please contact Holland N. ("Quint") McTyeire, V, Greenebaum Doll & McDonald PLLC, 3500 National City Tower, 101 South Fifth Street, Louisville, Kentucky 40202, (502) 589-4200 or Wendell S. Roberts, Gray, Woods & Cooper, 510-16th Street, P.O. Box 70, Ashland, Kentucky 41105, (606) 329-2121, counsel for Cingular.

This NOTICE was mailed on March 21, 2008.

Blueberry Ridge Cell Site		
PIDN	Resident/Property Address	Owner/Mailing Address
33.30/25 Deed Book 223, Page 494	Barbara S. and Billy J. Henderson Box 820 Olive Hill, Kentucky 41164	Barbara S. and Billy J. Henderson Box 820 Olive Hill, Kentucky 41164
33/88 Off. Rec. Book 67, Page 596	Lawrence J. and Lori L. Butler 90 Asbury Lane Olive Hill, Kentucky 41164	Lawrence J. and Lori L. Butler 90 Asbury Lane Olive Hill, Kentucky 41164
33/106 Deed Book 132, Page 495	Richard A. and Nadine Stallard P.O. Box 471 Olive Hill, Kentucky 41164	Richard A. and Nadine Stallard P.O. Box 471 Olive Hill, Kentucky 41164
33/106.2 Off. Rec. Book 9, Page 547	Danny E. and Donna M. Stamper P.O. Box 1605 Olive Hill, Kentucky 41164	Danny E. and Donna M. Stamper P.O. Box 1605 Olive Hill, Kentucky 41164
33/106.4 Off. Rec. Book 55, Page 44	Danny E. and Donna M. Stamper P.O. Box 1605 Olive Hill, Kentucky 41164	Danny E. and Donna M. Stamper P.O. Box 1605 Olive Hill, Kentucky 41164
	Charles Wallace Carter County Judge Executive Courthouse 300 West Main Street Grayson, Kentucky 41143	Charles Wallace Carter County Judge Executive Courthouse 300 West Main Street Grayson, Kentucky 41143

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PUBLIC NOTICE

POSTED AT BLUEBERRY RIDGE CELL SITE

This Notice advises that New Cingular Wireless PCS, LLC ("Cingular") proposes to construct a Telecommunications Tower or Monopole on this site. If you have any questions, please contact Holland N. ("Quint") McTyeire, V, Greenebaum Doll & McDonald PLLC, 3500 National City Tower, 101 South Fifth Street, Louisville, Kentucky 40202, (502) 589-4200 or Wendell S. Roberts, Gray, Woods & Cooper, 510-16th Street, P.O. Box 70, Ashland, Kentucky 41105, (606) 329-2121, counsel for Cingular, or the Executive Director, Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615. Please refer to Case No. 2008-00084 in your correspondence.

This NOTICE was posted on March 17, 2008.

This Notice is two (2) feet by four (4) feet in size and the word Tower or Monopole is printed in letters at least four (4) inches high.

PUBLIC NOTICE

**POSTED AT NEAREST PUBLIC ROAD
TO THE BLUEBERRY RIDGE CELL SITE**

This Notice advises that New Cingular Wireless PCS, LLC ("Cingular") proposes to construct a Telecommunications Tower or Monopole near this site. If you have any questions, please contact Holland N. ("Quint") McTyeire, V, Greenebaum Doll & McDonald PLLC, 3500 National City Tower, 101 South Fifth Street, Louisville, Kentucky 40202, (502) 589-4200 or Wendell S. Roberts, Gray, Woods & Cooper, 510-16th Street, P.O. Box 70, Ashland, Kentucky 41105, (606) 329-2121, counsel for Cingular, or the Executive Director, Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615. Please refer to Case No. 2008-00084 in your correspondence.

This NOTICE was posted on March 17, 2008.

This Notice is two (2) feet by four (4) feet in size and the word Tower or Monopole is printed in letters at least four (4) inches high.

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EXHIBIT H

Page 2 of 2

This Notice advises that New Cingular
Wireless PCS, LLC ("Cingular") propos-
es to construct a Telecommunications

Tower or Monopole

on this site. If you have any questions,
please contact Holland N. ("Quint")
McTyeire, V, Grenebuam Doll &
McDonald PLLC, 3500 National City
Tower, 101 South Fifth Street,
Louisville, Kentucky 40202, (502)
589-4200 or Wendell S. Roberts, Gray,
Woods & Cooper, 510-16th Street,
P.O. Box 70, Ashland, Kentucky 41105,
(606)329-2121, counsel for Cingular,
or the Executive Director, Public Ser-
vice Commission, 211 Sower Boule-
vard, Frankfort, Kentucky 40602-0615.
Please refer to Case No. 2008-00084
in your correspondence.
This NOTICE was posted was posted
on or before March 17, 2008.

2008/03/17 13:19



Tower or
Monopole

2008/03/17 13:19

This Notice advises that New Cingular
Wireless PCS, LLC (Cingular) proposes
to construct a Telecommunications

Tower or Monopole

near this site. If you have any
questions, please contact Holland N.
(Quint) McTyeire, V. Greenebaum,
Doll & McDonald P/LLC, 3500
National City Tower, 101 South Fifth
Street, Louisville, Kentucky 40202,
(502) 589-7200 or Wendell S.

Roberts, Gray, Woods & Cooper,
510 16th Street, P.O. Box 70, Ashland
Kentucky 41105, (606) 329-2121, coun-
sel for Cingular, or the Executive Direc-
tor, Public Service Commission, 211
Sower Boulevard, Frankfort, Kentucky
40602-0615. Please refer to Case No.
2008-00084 in your correspondence.

This NOTICE was posted as posted
on or before March 17, 2008.

2008/03/17 13:31

LEGAL NOTICE

On March 21, 2008, New CingularWireless PCS, LLC (“Cingular”) applied to the Public Service Commission of Kentucky for a Certificate Of Public Convenience And Necessity To Construct A Wireless Communications Facility and called the Blueberry Ridge Cell Site, Site #WV306B. The facility will be located at Blueberry Ridge Road, Carter County, Kentucky. Cingular may install and employ a Temporary Wireless Communications Facility, at or near the above Cell Site, during the pendency of the above Application. This Legal Notice is to advise you of the Application filed by Cingular. The Public Service Commission invites your comments regarding the proposed construction by Cingular.

If you have any questions, please contact Holland N. (“Quint”) McTyeire, V, Greenebaum Doll & McDonald PLLC, 3500 National City Tower, 101 South Fifth Street, Louisville, Kentucky 40202, (502) 589-4200 or Wendell S. Roberts, Gray, Woods & Cooper, 510-16th Street, P.O. Box 70, Ashland, Kentucky 41105, (606) 329-2121, counsel for Cingular, or the Executive Director, Public Service Commission, 211 Sower Boulevard, Frankfort, Kentucky 40602-0615. Please refer to Case No. 2008-00084 in your correspondence.

EXHIBIT I

Page 1 of 1







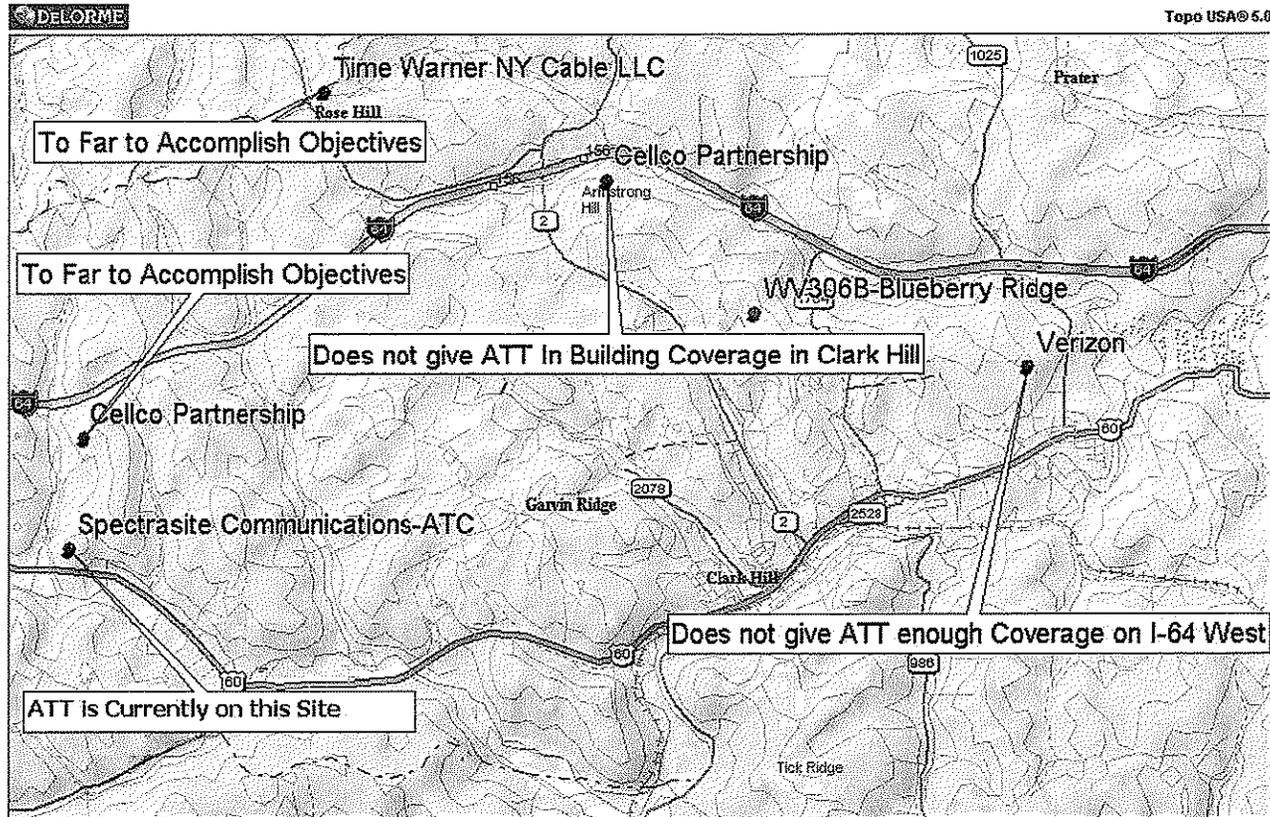




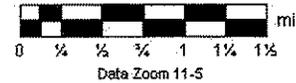




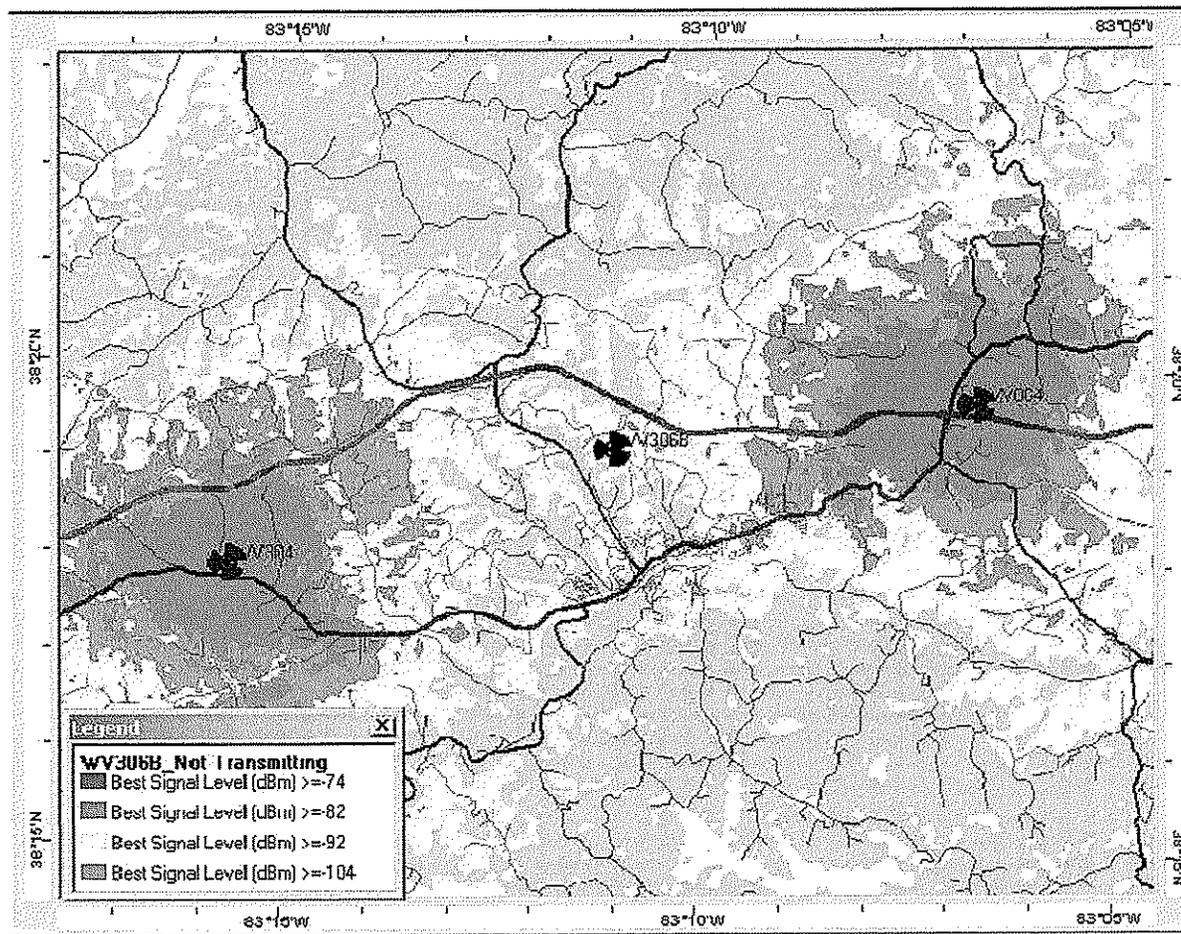
Tower's Near ATT



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