



1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-0369  
Phone (502) 955-4400 or (800) 516-4293  
Fax (502) 543-4410 or (800) 541-4410

December 21, 2007

**VIA HAND DELIVERY**

Kentucky Public Service Commission  
Attn: Michael F. Burford  
Director, Division of Filings  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, KY 40602-0615

RECEIVED

DEC 21 2007

PUBLIC SERVICE  
COMMISSION

RE: Application to Construct Wireless Communications Facility  
Location: 614 Flannery Cemetery Road, Olive Hill, Kentucky 41164  
Applicant: Cellco Partnership d/b/a Verizon Wireless  
Site Name: Tick Ridge  
Case No.: 2007-00543

Dear Mr. Burford:

On behalf of our client, Cellco Partnership d/b/a Verizon Wireless, we are submitting the enclosed original and five (5) copies of an Application for Certificate of Public Convenience and Necessity for Construction of a Wireless Communications Facility in an area of Carter County outside the jurisdiction of a planning commission. I have also enclosed two (2) additional copies of this cover letter. Thank you for your assistance and do not hesitate to contact me if you have any comments or questions concerning this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "D. Pike", with a stylized flourish at the end.

David A. Pike  
Attorney for Verizon Wireless

enclosures

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

RECEIVED  
DEC 21 2007  
PUBLIC SERVICE  
COMMISSION

In the Matter of:

THE APPLICATION OF )  
CELLCO PARTNERSHIP, D/B/A VERIZON WIRELESS )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC ) CASE NO.: 2007-00543  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY AT )  
614 FLANNERY CEMETERY RD, OLIVE HILL, KY 41164 )  
IN THE WIRELESS COMMUNICATIONS LICENSE AREA )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF CARTER )

SITE NAME: TICK RIDGE

\*\*\*\*\*

**APPLICATION FOR  
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY  
FOR CONSTRUCTION OF A WIRELESS COMMUNICATIONS FACILITY**

Cellco Partnership, a Delaware General Partnership d/b/a, d/b/a Verizon Wireless (“Applicant”), by counsel, pursuant to (i) KRS §§ 278.020, 278.040, 278.650, 278.665 and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity (“CPCN”) from the Kentucky Public Service Commission (“PSC”) to construct, maintain, and operate a Wireless Communications Facility (“WCF”) to serve the customers of the Applicant with wireless telecommunications services.

In support of this Application, Applicant respectfully provides and states the following information:

1. The complete name and address of the Applicant:

Cellco Partnership, d/b/a Verizon Wireless

180 Washington Valley Road  
Bedminster, New Jersey, 07921

2. Applicant proposes construction of an antenna tower for cellular telecommunications services or personal communications services which is to be located in an area outside the jurisdiction of a planning commission, and Applicant submits this application to the Commission for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.650, and 278.665.

3. Applicant entity is not a corporation and, therefore, the requirements of 807 KAR 5:001(8) and 807 KAR 5:001(9) that applicant submit a certified copy of articles of incorporation is inapplicable.

4. The proposed WCF will serve an area completely within the Applicant's Federal Communications Commission ("FCC") licensed service area in the Commonwealth of Kentucky. A copy of the Applicant's FCC license to provide wireless services is attached to this Application or described as part of **Exhibit A**.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless telecommunications services. The WCF will provide a necessary link in the Applicant's telecommunications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications licensed area. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Applicant proposes to construct a WCF at 614 Flannery Cemetery Road, Olive Hill, Kentucky 41164 (38-17-03.49 North latitude, 83-12-15.84 West longitude), in an area located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is held in fee simple by Barry Layne Burchett, pursuant to a Deed recorded at Deed Book 201, Page 897A in the office of the Carter County Clerk. A vendee interest in the property by Rocky Stephens and Rodney Stephens is of record at O.R. Book 102, Page 723 in the office of the Carter County Clerk. The proposed WCF will consist of a 300-foot tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 305-feet. The WCF will also include concrete foundations to accommodate the placement of the Applicant's proprietary radio electronics equipment. The equipment will be housed in a prefabricated cabinet or shelter that will contain: (i) the transmitting and receiving equipment required to connect the WCF with the Applicant's users in Kentucky, (ii) telephone lines that will link the WCF with the Applicant's other facilities, (iii) battery back-up that will allow the Applicant to operate even after a loss of outside power, and (iv) all other necessary appurtenances. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**. Periodic inspections will be performed on the WCF in accordance with the applicable regulations or requirements of the PSC.

7. A list of competing utilities, corporations, or persons is attached as **Exhibit D**,

along with three (3) maps of suitable scale showing the location of the proposed new construction as well as the location of any like facilities located anywhere within the map area, along with a map key showing the owner of such other facilities.

8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Applicant and future antenna mounts, has also been included as part of **Exhibit B**. Foundation design plans and a description of the standards according to which the tower was designed, and which have been signed and sealed by a professional engineer registered in Kentucky, are included as part of **Exhibit C**.

9. The process that was used by the Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to serve the Federal Communications Commission licensed service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Applicant. Before beginning the site acquisition process, Applicant carefully evaluated locations within the search area for co-location opportunities on existing

structures, and no suitable towers or other existing tall structures were found in the immediate area that would meet the technical requirements for the element of the telecommunications network to be provided by the proposed facility. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit E**. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. Applicant has attempted to co-locate on suitable existing structures such as telecommunications towers or other suitable structures capable of supporting Applicant's facilities, and no other suitable or available co-location site was found to be located in the vicinity of the site.

10. FAA notice is required for the proposed construction; and lighting or marking requirements may be applicable to this facility. A copy of the Determination of No Hazard to Air Navigation from the FAA is attached as **Exhibit F**.

11. A copy of the Kentucky Airport Zoning Commission ("KAZC") approval for the proposed WCF is attached as **Exhibit G**.

12. The WCF will be registered with the FCC pursuant to applicable federal requirements. Appropriate required FCC signage will be posted on the site upon receipt of the tower registration number.

13. A geotechnical engineering firm has performed soil boring(s) and subsequent

geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report and evaluation, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.

14. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit I**. The name and telephone number of the preparer of **Exhibit I** is included as part of this exhibit.

15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit J**. Also included as part of **Exhibit J** is the portion of the full agreement demonstrating that in the case of abandonment a method is provided to dismantle and remove the cellular antenna tower, including a timetable for removal.

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. Valmont ("Tower Manufacturer") performed the tower and foundation design. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit C** bear the signature and stamp of William R. Heiden, III, a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed applicable laws and regulations.

17. The Project Manager and Contractor for the proposed facility is Chris Dodd,

Verizon Wireless Construction Manager, and the identity and qualifications of each person directly responsible for construction of the proposed tower are contained in the attached letter submitted as part of **Exhibit C**.

18. Based on a review of Federal Emergency Management Agency Flood Insurance Rate Maps, the registered land surveyor has noted in **Exhibit B** that the proposed WCF is not located within any flood hazard area.

19. The possibility of high winds has been considered in the design of this tower. The tower has been designed and engineered by professional engineers using computer assistance and the same accepted codes and standards as are typically used for high-rise building construction. The tower design is in accordance with ANSI/EIA-222-G standards, for wind loads.

20. The site development plan signed and sealed by a professional engineer registered in Kentucky was prepared by Michael E. Jones. The site survey was performed by Frank L. Sellinger, Jr.. Sheet 1 of 2 of **Exhibit B** is drawn to a scale of no less than one (1) inch equals 200 feet, and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). Every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system is illustrated in **Exhibit B**.

21. Applicant has notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt

requested, of the proposed construction. All notified property owners have been given the docket number under which the proposed Application will be processed and have been informed of their right to request intervention. A list of the nearby property owners who received the notices, together with copies of the certified letters, are attached as **Exhibit K** and **Exhibit L**, respectively.

22. Applicant has notified the Carter County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the Carter County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit M**.

23. Two notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2), that measure at least two (2) feet in height and four (4) feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two (2) weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit N**. Notice of the location of the proposed facility has also been published in a newspaper of general circulation in the county in which the WCF is proposed to be located.

24. The general area where the proposed facility is to be located is rural. There are no residential structures located within a 500-foot radius of the proposed tower location.

25. All Exhibits to this Application are hereby incorporated by reference as if fully

set out as part of the Application.

27. All responses and requests associated with this Application may be directed to:

David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410

**WHEREFORE**, Applicant respectfully request that the PSC accept the foregoing Application for filing, and having met the requirements of KRS §§ 278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,



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David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
Attorney for Cellco Partnership  
d/b/a Verizon Wireless

## LIST OF EXHIBITS

- A - Business Entity and FCC License Documentation
- B - Site Development Plan:
  - 500' Vicinity Map
  - Legal Descriptions
  - Flood Plain Certification
  - Site Plan
  - Vertical Tower Profile
- C - Tower and Foundation Design
- D - Competing Utilities, Corporations, or Persons List and Map of Like Facilities in Vicinity
- E - Copy of Radio Frequency Design Search Area
- F - FAA Determination of No Hazard
- G - Kentucky Airport Zoning Commission Approval
- H - Geotechnical Report
- I - Directions to WCF Site
- J - Copy of Real Estate Agreement
- K - Notification Listing
- L - Copy of Property Owner Notification
- M - Copy of County Judge/Executive Notice
- N - Copy of Posted Notices

**EXHIBIT A**  
**BUSINESS ENTITY AND FCC LICENSE DOCUMENTATION**

**Federal Communications Commission  
Wireless Telecommunications Bureau**

**Radio Station Authorization (Reference Copy Only)**

**This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.**

Licensee: Cellco Partnership

ATTN Regulatory  
Cellco Partnership  
1120 Sanctuary Pkwy, #150, GASA5REG  
Alpharetta, GA 30004

<b>FCC Registration Number (FRN):</b> 0003290673	
<b>Call Sign:</b> KNLH252	<b>File Number:</b> 0002978412
<b>Radio Service:</b> CW - PCS Broadband	

<b>Grant Date</b> 05/30/2007	<b>Effective Date</b> 05/30/2007	<b>Expiration Date</b> 04/28/2017	<b>Print Date</b> 08/13/2007
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<b>Market Number:</b> BTA197	<b>Channel Block:</b> F	<b>Sub-Market Designator:</b> 0
<b>Market Name:</b> Huntington, WV-Ashland, KY		

<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>
04/28/2002			

**Special Conditions or Waivers/Conditions** This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.716 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

**Conditions**  
Pursuant to Section 309(h) of the Communications Act of 1934, as amended, 47 U.S.C. Section 309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. Section 310(d). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended. See 47 U.S.C. Section 606.

To view the geographic areas associated with the license, go to the Universal Licensing System (ULS) homepage at <http://wireless.fcc.gov/uls/> and select "License Search". Follow the instruction on how to search for license information

**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

**500' VICINITY MAP  
LEGAL DESCRIPTIONS  
FLOOD PLAIN CERTIFICATION  
SITE PLAN  
VERTICAL TOWER PROFILE**

**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

**500' VICINITY MAP  
LEGAL DESCRIPTIONS  
FLOOD PLAIN CERTIFICATION  
SITE PLAN  
VERTICAL TOWER PROFILE**

RECEIVED

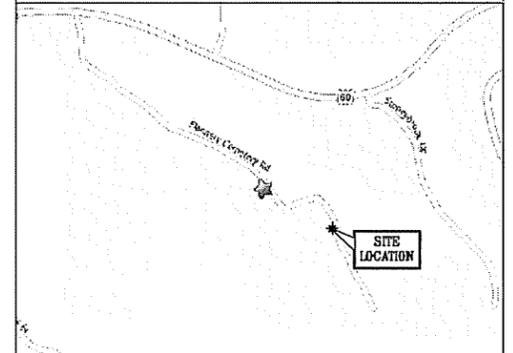
DEC 21 2007

PUBLIC SERVICE COMMISSION



HUNTINGTON, WV MARKET SITE  
SITE # HTGN - 043  
TICK RIDGE / RAW LAND  
614 FLANNERY CEMETERY ROAD  
OLIVE HILL, KY 41164

CODE DATA	
<b>ZONING DATA</b>	
CURRENT ZONING	CARTER COUNTY, N/A
PROPOSED TOWER HEIGHT	300'-0"
PROPOSED ANTENNA HEIGHT	300'-0"
SHELTER AREA	346 S.F.
SHELTER HEIGHT	10'-0"
<b>BUILDING CODE DATA</b>	
SIGNAL BUILDING IS AN ENGINEERED INDUSTRIALIZED UNIT BUILDING, MANUFACTURED BY FIREBOND, INC. AND PRE-APPROVED BY THE STATE OF KENTUCKY DIVISION OF BUILDING CODES ENFORCEMENT PER THE ATTACHED DRAWINGS AND CALCULATIONS	
USE GROUP	S-2
CONSTRUCTION TYPE	V B
TOWER AND FOUNDATION ANALYSIS DESIGNED AND ENGINEERED PER THE ATTACHED DRAWINGS AND CALCULATIONS BY VALMONT STRUCTURES.	
USE GROUP	U
CONSTRUCTION TYPE	II B
ALL DRAWINGS INCLUDED IN THIS SET WERE PREPARED UNDER THE 2002 EDITION OF THE KBC AND IN ACCORDANCE WITH THE 2005 NEC	



SITE LOCATION MAP  
NORTH

SITE INFORMATION			
OWNER:	RODNEY STEPHENS	PHONE:	(606) 296-2211
NON-EMERGENCY FIRE CONTACT:		NON-EMERGENCY POLICE CONTACT:	
PHONE:	(606) 474-6763	PHONE:	(606) 474-6222
TELEPHONE COMPANY:		ELECTRICAL COMPANY:	
COMPANY:	ALLTEL	COMPANY:	ABP
CONTACT:	TBD	CONTACT:	TBD
PHONE:	(606) 347-1991	PHONE:	(800) 672-1113
POTS LINE NO.:	(606) 286-4805	POLE NO.:	247-111
ORDER NO.:	TBD	ORDER NO.:	031337442
E-911 ADDRESS:		CERTIFIED ADDRESS:	
614 FLANNERY CEMETERY ROAD		614 FLANNERY CEMETERY ROAD	
OLIVE HILL, KY 41164		OLIVE HILL, KY 41164	

DRAWING INDEX	
NO.	DRAWING
C-1	COVER SHEET
SS 1/2	SITE SURVEY
SS 2/2	SITE SURVEY
CD 1/1	GRADING & DRAINAGE PLAN
A-1	SITE PLAN & SPECIFICATIONS
A-2	GENERAL NOTES & SCHEDULES, ELEVATION DETAILS
E-1	ELECTRICAL & UTILITY PLAN, DETAILS, & NOTES

JESTER JONES SCHIFER ARCHITECTS LTD  
355 East Center Street, Suite 200 Marion, Ohio 43302 740-382-6840  
6209 Riverside Drive, Suite 200 Dublin, Ohio 43017 614-761-1707

SITE # HTGN-043  
TICK RIDGE/RAW LAND  
CONSTRUCTION DRAWINGS  
11/30/07

REVISIONS:	1130.07 - Release of FINAL Construction Drawings
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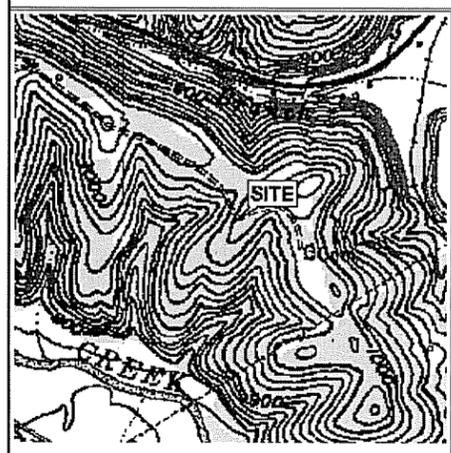
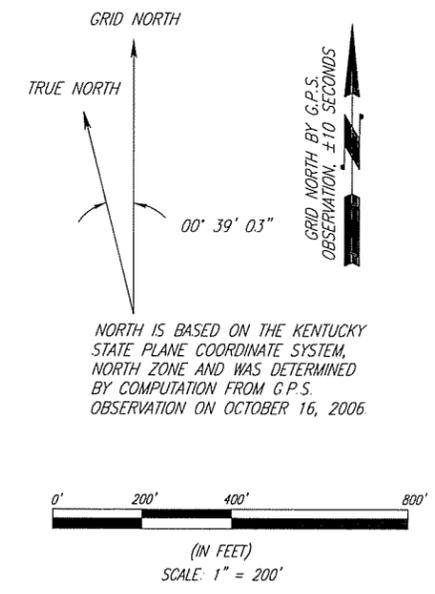
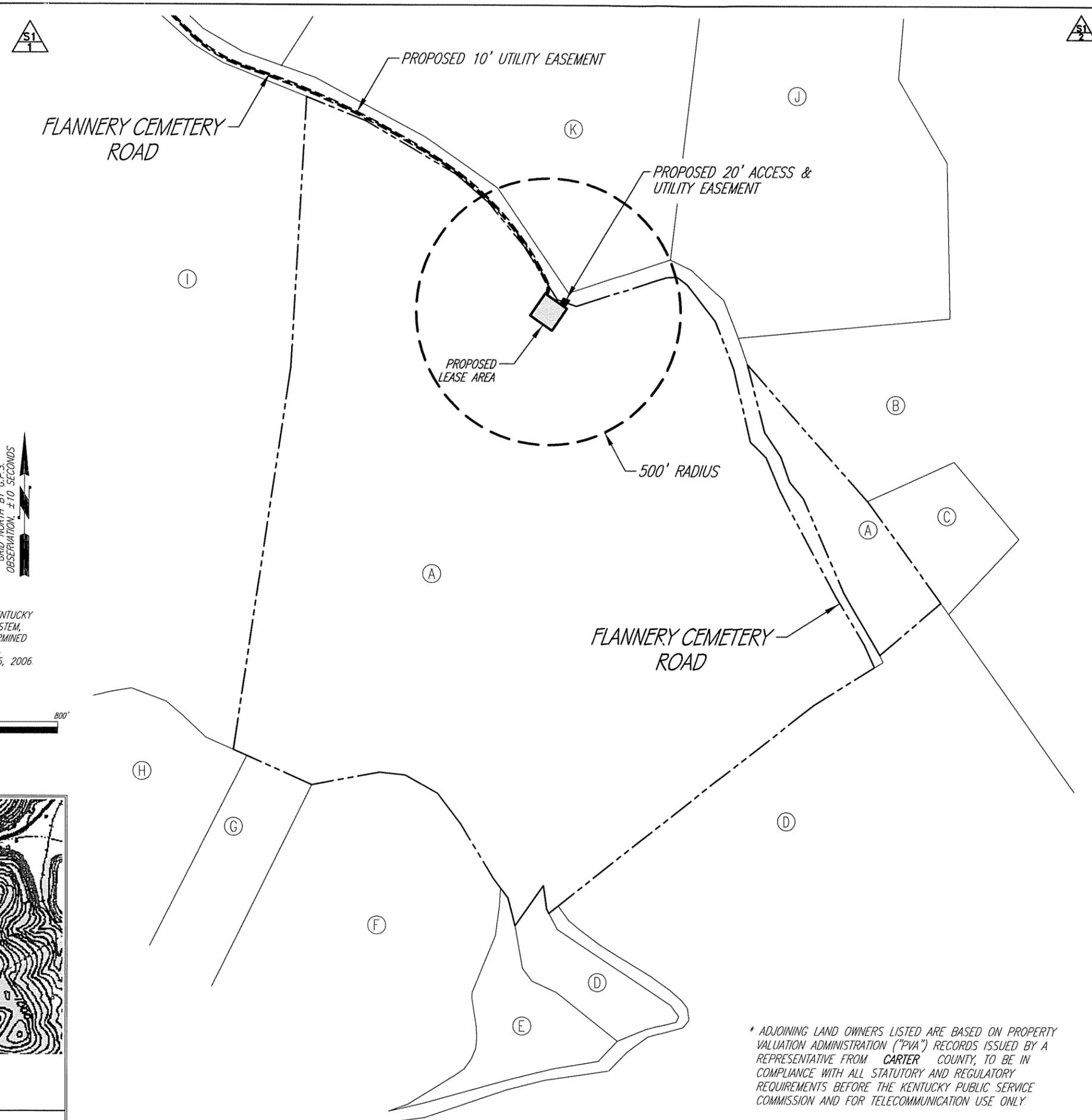
APPROVED BY	DATE
PROPERTY OWNER:	_____
REAL ESTATE:	_____
INTEGRATION:	_____
CONSTRUCTION:	_____
RF ENGINEERING	_____



PROJECT:	02133.440
DATE:	AUGUST 10, 2007
DRAWN BY:	SM
CHECKED BY:	SEW
REV:	11/30/07
SET NUM:	_____
PRINTED:	_____

*Michael E. Jones - Architect*  
11/30/07

SHEET 1	
	- VICINITY AND 500' STRUCTURAL MAP
	- ABUTTING PROPERTY OWNERS
	- U.S.G.S. QUAD MAP
SHEET 2	
	- LEASE AREA
	- LEGAL DESCRIPTIONS
	- FLOOD ZONE DATA



**QUAD MAP**  
SCALE: 1"=2000'  
U.S.G.S. 7 1/2 MINUTE QUAD MAP OF OLIVE HILL, KY

- MAP 34, LOT 54.01  
ROCKY & RODNEY STEPHENS (VENDEE)  
P.O. BOX 1388  
OLIVE HILL, KY 41164  
DEED BOOK 102, PAGE 723  
BARRY LAYNE BURCHETT  
854 McMEEKIN PLACE  
LEXINGTON, KY 40502  
NO ZONING
- MAP 34, LOT 116  
RUTH MESSER  
P.O. BOX 632  
OLIVE HILL, KY 41164  
NO DEED OF RECORD FOUND  
NO ZONING
- MAP 34, LOT 116.03  
EUGENE MESSER, C/O SHERRY SAMMATATRO  
1991 CRIDER RD.  
MANSFIELD OH, 44903  
DEED BOOK 181, PAGE 228  
NO ZONING
- MAP 34, LOT 55  
TRISTIN SETH BW HARRIS III  
938 BIGGS BRANCH RD  
OLIVE HILL, KY 41164  
DEED BOOK 016, PAGE 227  
NO ZONING
- MAP 34, LOT 56  
KERRY DAVID & LINDA BURCHETT  
555 TRIANGLE LANE  
OLIVE HILL, KY 41164  
DEED BOOK 026, PAGE 298  
NO ZONING
- MAP 23, LOT 28.07  
CLAYTON & THELMA PUCKETT  
524 CLARK HOLLOW  
OLIVE HILL, KY 41164  
DEED BOOK 071, PAGE 154  
NO ZONING
- MAP 23, LOT 28.03  
TRISTIN SETH B.W. HARRIS III  
938 BIGGS BRANCH RD  
OLIVE HILL, KY 41164  
DEED BOOK 20, PAGE 193  
NO ZONING
- MAP 23, LOT 28.01  
ROY L. BIGGS  
959 BIGGS RD  
OLIVE HILL, KY 41164  
NO DEED OF RECORD FOUND  
NO ZONING
- MAP 34, LOT 54  
EARL STEPHENS JR  
397 ST. HWY 174  
OLIVE HILL, KY 41164  
NO DEED OF RECORD FOUND  
NO ZONING
- MAP 34, LOT 51  
SUE ROBERTS  
521 ROBERT & MARY AVE  
GRAYSON, KY 41143  
DEED BOOK 172, PAGE 545  
NO ZONING
- MAP 34, LOT 52  
GARY AND DONRITA BOND  
P.O. BOX 751  
OLIVE HILL, KY 41164  
DEED BOOK 160, PAGE 139  
NO ZONING

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

**CELLCO PARTNERSHIP**  
**d.b.a. VERIZON WIRELESS**

**FSTAN**

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

SITE NUMBER: \_\_\_\_\_

SITE NAME: TICK RIDGE

SITE ADDRESS: FLANNERY CEMETERY ROAD  
OLIVE HILL, KY 41164

LEASE AREA: 10,000 sq. ft.

PROPERTY OWNER:  
(FEE SIMPLE INTEREST)  
BARRY LAYNE BURCHETT  
854 McMEEKIN PLACE  
LEXINGTON, KY 40502  
  
(VENDEE INTEREST)  
ROCKY STEPHENS  
P.O. BOX 1059  
OLIVE HILL, KY 41164  
  
RODNEY STEPHENS  
P.O. BOX 1388  
OLIVE HILL, KY 41164

MAP NUMBER: 34

PARCEL NUMBER: 54.01

SOURCE OF TITLE:  
(BURCHETT, FEE SIMPLE INTEREST)  
DEED BOOK 201, PAGE 897A  
(STEPHENS, VENDEE INTEREST)  
O.R. BOOK 102, PAGE 723

DWG BY:	CHKD BY:	DATE:
JEF	FSII	06.28.07

FSTAN PROJECT NO: 06-4164

**SHEET 1 OF 2**

**REVISIONS:**  
TITLE: OWNERS, LEGALS - 07.20.07

**VACANT LAND**

TICK RIDGE

SITE ADDRESS: FLANNERY CEMETERY ROAD  
OLIVE HILL, KY 41164  
OWNER ADDRESS: P.O. BOX 1388  
OLIVE HILL, KY 41164

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

**COORDINATE POINT LOCATION**  
 NAD 1983  
 LATITUDE: 38° 17' 03.49"  
 LONGITUDE: 83° 12' 15.84"  
 NAVD 1988  
 ELEVATION: 1029' AMSL  
 KENTUCKY STATE PLANE COORDINATE NORTH ZONE (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)  
 NORTHING: 287316.14  
 EASTING: 1940537.66

**POWER SOURCE**  
 UTILITY COMPANY: AEP  
 IDENTIFICATION # N/A

**TELEPHONE SOURCE**  
 TELEPHONE COMPANY: ALLTEL  
 IDENTIFICATION # N/A

**PROJECT BENCHMARK**  
 NORTH: 287303.343  
 EAST: 1940468.099  
 ELEVATION: 1016.283  
 LOCATION: BEING AN IPC SET AT THE WESTERMOST CORNER OF THE PROPOSED LEASE AREA

**UNDERGROUND UTILITIES**  
 CALL 2 WORKING DAYS  
**BEFORE YOU DIG**  
 INDIANA 1-800-382-5544  
 KENTUCKY 1-800-752-6007  
 OHIO 1-800-362-2764  
 UTILITIES PROTECTION SERVICE  
 NON-MEMBERS MUST CALL DIRECTLY

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

**SYMBOL LEGEND**

	WOOD POWER POLE
	LIGHT POLE
	TELEPHONE PEDESTAL
	GUY ANCHOR
	WATER VALVE
	WATER METER
	FIRE HYDRANT
	FENCE POST
	SET #5 REBAR (UNLESS OTHERWISE NOTED)
	EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

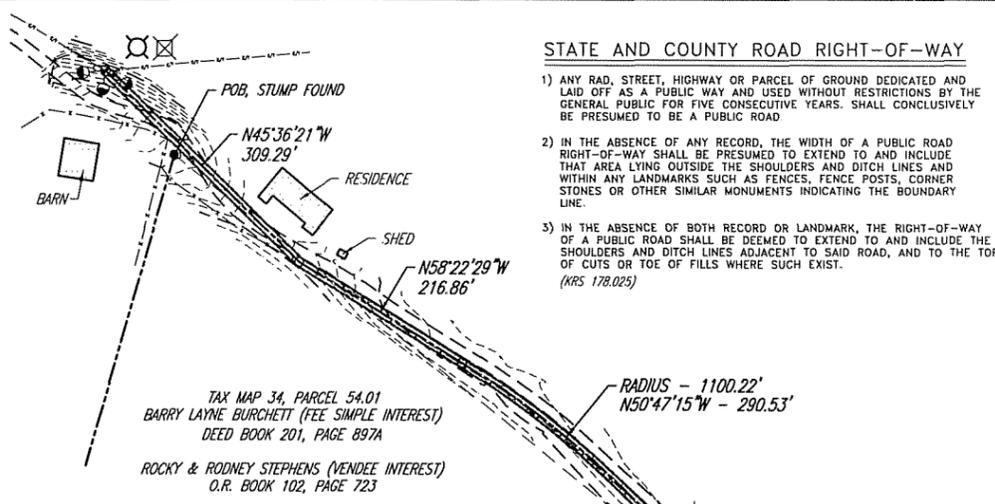
**ABBREVIATIONS**

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

**LINE LEGEND**

	OVERHEAD ELECTRIC
	UNDERGROUND GAS LINE
	UNDERGROUND WATER LINE
	OVERHEAD ELECTRIC & TELEPHONE LINE
	OVERHEAD TELEPHONE LINE
	EXISTING FENCE
	SUBJECT PROPERTY BOUNDARY
	RIGHT OF WAY CENTERLINE

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



**STATE AND COUNTY ROAD RIGHT-OF-WAY**

- ANY ROAD, STREET, HIGHWAY OR PARCEL OF GROUND DEDICATED AND LAID OFF AS A PUBLIC WAY AND USED WITHOUT RESTRICTIONS BY THE GENERAL PUBLIC FOR FIVE CONSECUTIVE YEARS. SHALL CONCLUSIVELY BE PRESUMED TO BE A PUBLIC ROAD.
- IN THE ABSENCE OF ANY RECORD, THE WIDTH OF A PUBLIC ROAD RIGHT-OF-WAY SHALL BE PRESUMED TO EXTEND TO AND INCLUDE THAT AREA LYING OUTSIDE THE SHOULDERS AND DITCH LINES AND WITHIN ANY LANDMARKS SUCH AS FENCES, FENCE POSTS, CORNER STONES OR OTHER SIMILAR MONUMENTS INDICATING THE BOUNDARY LINE.
- IN THE ABSENCE OF BOTH RECORD OR LANDMARK, THE RIGHT-OF-WAY OF A PUBLIC ROAD SHALL BE DEEMED TO EXTEND TO AND INCLUDE THE SHOULDERS AND DITCH LINES ADJACENT TO SAID ROAD, AND TO THE TOP OF CUTS OR TOE OF FILLS WHERE SUCH EXIST. (KRS 178.025)

**SURVEYORS NOTES**  
 SOURCE OF BEARING IS A G.P.S. OBSERVATION ON OCTOBER 16, 2006.  
 SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.  
 NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.  
 THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.  
 EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.

Schedule B, Section 2 of Lawyers Title Insurance Corporation, Commitment No. 07-34329, Effective Date June 28, 2007 at 6:59 A.M.  
 The policy or policies to be issued will contain exceptions to the following unless the same are disposed of to the satisfaction of the Company:

- Defects, liens, encumbrances, adverse claims or other matters, if any, first appearing in the public records or attaching subsequent to the effective date hereof, but prior to the date the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment.
- Assessments, if any, not yet certified to the County Auditor.
- Rights or claims of parties other than insured in actual possession of any or all of the property.
- Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land. The term "encroachment" includes encroachments of existing improvements located on the Land onto adjoining land, and encroachments onto the Land of existing improvements located on adjoining land.
- Unfiled mechanic's or materialman's liens.
- No liability is assumed for tax increases occasioned by retroactive revaluation or change in land usage for insured premises.
- Taxes for the year 2007, a lien undetermined, not yet due and payable, and subsequent years.

The County Treasurer's General Tax records for the year 2006 are as follows:  
 PIN: 34--00--00--05A.01  
 VALUATIONS: Land Only \$104,000  
 Taxes for the year 2006 are \$750.36 (\$375.18 per half).  
 Taxes for the year 2006 are paid.

8. Land Contract by and between Barry Burchett and Debra Burchett, his wife (Vendees) and Rocky Stephens, married and Rodney Stephens, single (Vendees), recorded June 4, 2003 in Official Record 102, Page 723, Carter County records. (Does affect Lease Area, 20' Access & Utility Easement and 10' Utility Easement)  
 NOTE: Quit Claim Deed recorded in Official Record 195, Page 509, aforesaid records, for the purposes of correcting the public records and in order to ultimately vest full Fee Simple Title in Vendees, by deed yet to be filed.

9. Reservations as shown of record in Deed Book 54, Page 600, Carter County records. (Does affect Lease Area, 20' Access & Utility Easement and 10' Utility Easement)  
 NOTE: The reservation of mines, seams and veins as set forth in Deed Book 54, Page 600 dated January 28, 1936 in favor of Olive Hill Refractories Company has been searched from said above date to and including June 28, 2007 and we find no Conveyances, assignments or cancellations of said reservation.

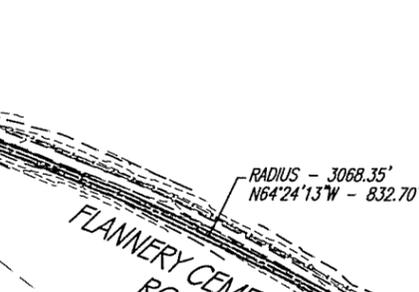
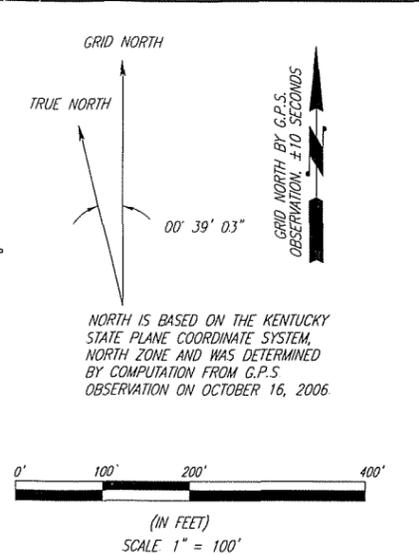
10. Perpetual Right of Way Easement granted to Tristin Seth, recorded in Book 16, Page 227, Carter County records. (Does not affect Lease Area, 20' Access & Utility Easement or 10' Utility Easement)

11. Perpetual Right of Way Easement granted to Lawrence Royburn and Sheila Royburn, recorded in Book 185, Page 685, Carter County records.  
 NOTE: The reservation of Right of Way as set forth in Deed book 185, Page 685 dated June 16, 1982 to Roy L. Biggs et al has been searched from said above date to and including June 28, 2007 and we find no Conveyances, assignments or cancellations of said reservation. (Vogue & ambiguous deed description - surveyor unable to determine exact location of easement)  
 NOTE: The reservation of Small Graveyard as set forth in Deed Book 185, Page 686 dated June 16, 1982 to Roy L. Biggs et al has been searched from said above date to and including June 28, 2007 and we find no Conveyances, assignments or cancellations of said reservation. (Vogue & ambiguous deed description - surveyor unable to determine exact location of easement)

12. Any covenants, condition or restriction referred to herein indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin is omitted as provided in 42 U.S.C. Section 3604, unless and only to the extent that the restriction (a) is not in violation of state or federal law, (b) is exempt under 42 U.S.C. Section 3607, or (c) is related to a handicap, but does not discriminate against handicapped people.

13. Title to that portion of the insured premises within the bounds of any legal highways.

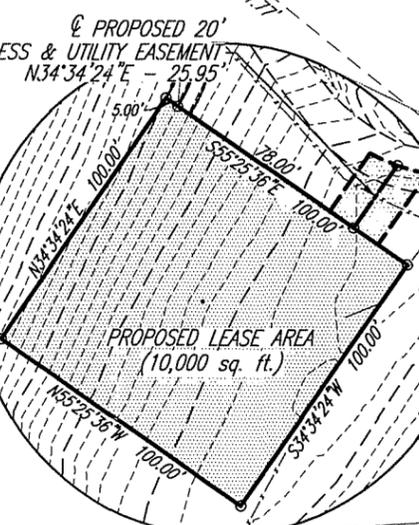
14. Any inaccuracy in the specific quantity of acreage contained on the survey, if any, or contained within the legal description of premises insured herein.



**LEGAL DESCRIPTIONS:**

This is a description for Cellco Partnership, d.b.a. Verizon Wireless, of a lease area to be located on the property of Rocky & Rodney Stephens as Vendees and Barry Layne Burchett as Fee Simple owner, which is further described as follows

**LEASE AREA**  
 Beginning at a stump found at the Northwest corner of the property conveyed, as fee simple interest to Barry Layne Burchett, in Deed Book 201, Page 897A, and, as vendees under a land contract, Rocky Stephens and Rodney Stephens, in Official Record 102, Page 723, all of record in the Office of the Clerk of Carter County, Kentucky, thence traversing said property S 51°14'52\"/>



**LAND SURVEYOR'S CERTIFICATE**

TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 58,800.

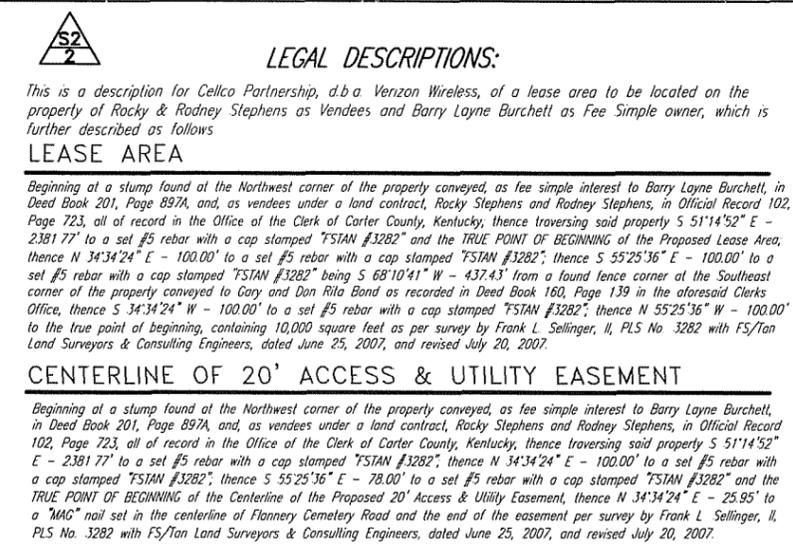
TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.

This survey and plat meets or exceeds the minimum standards of the governing authorities.

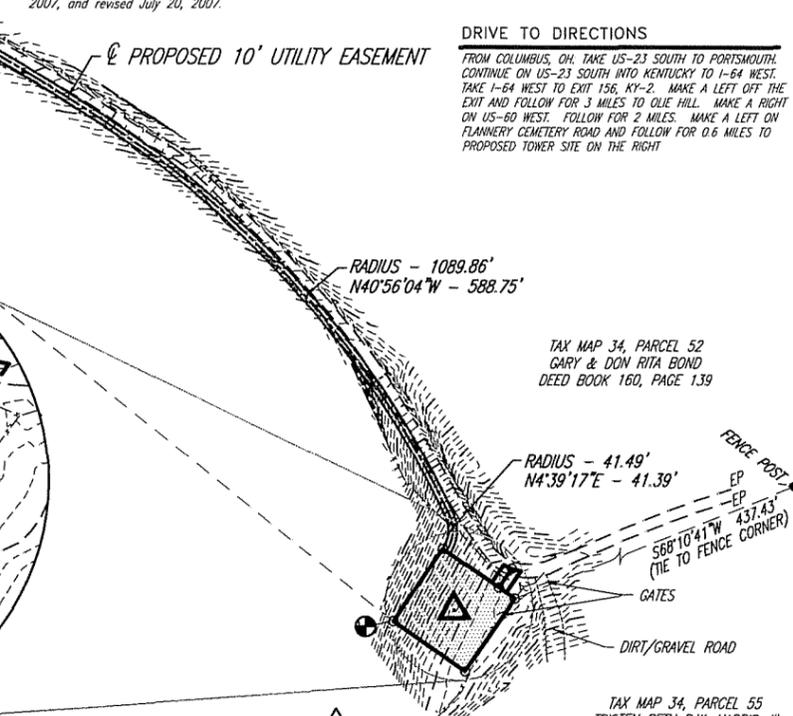
This property is subject to any recorded easements or right of ways not shown hereon.

FRANK L. SELLINGER  
 #3282  
 LICENSED PROFESSIONAL LAND SURVEYOR

Frank L. Sellinger, II  
 KY PLS No. 3282



**CENTERLINE OF 10' UTILITY EASEMENT**  
 Beginning at a stump found at the Northwest corner of the property conveyed, as fee simple interest to Barry Layne Burchett, in Deed Book 201, Page 897A, and, as vendees under a land contract, Rocky Stephens and Rodney Stephens, in Official Record 102, Page 723, all of record in the Office of the Clerk of Carter County, Kentucky, thence traversing said property S 51°14'52\"/>



**"WIRELESS COMMUNICATION SITE SURVEY"**

OWNER APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

CELLCO PARTNERSHIP, dba VERIZON WIRELESS APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. MAP NO. 2100500140B DATED 02.15.84 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE C.

**CELLCO PARTNERSHIP**  
 d.b.a.  
**VERIZON WIRELESS**

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

**SITE NUMBER:**

**SITE NAME:** TICK RIDGE

**SITE ADDRESS:** FLANNERY CEMETERY ROAD  
 OLIVE HILL, KY 41164

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

**PROPERTY OWNER:**  
 (FEE SIMPLE INTEREST)  
 BARRY LAYNE BURCHETT  
 854 McMEEKIN PLACE  
 LEXINGTON, KY 40502  
 (VENDEE INTEREST)  
 ROCKY STEPHENS  
 P.O. BOX 1059  
 OLIVE HILL, KY 41164  
 RODNEY STEPHENS  
 P.O. BOX 1388  
 OLIVE HILL, KY 41164

**MAP NUMBER:** 34

**PARCEL NUMBER:** 54.01

**SOURCE OF TITLE:**  
 (BURCHETT, FEE SIMPLE INTEREST)  
 DEED BOOK 201, PAGE 897A  
 (STEPHENS, VENDEE INTEREST)  
 O.R. BOOK 102, PAGE 723

DWG BY:	CHKD BY:	DATE:
DJG	FSH	06.25.07

FSTAN PROJECT NO.: 06-4164

SHEET 2 OF 2

**REVISIONS:**  
 TITLE, OWNERS, LEGALS - 07.20.07

**VACANT LAND**  
 TICK RIDGE  
 SITE ADDRESS: FLANNERY CEMETERY ROAD  
 OLIVE HILL, KY 41164  
 OWNER ADDRESS: P.O. BOX 1388  
 OLIVE HILL, KY 41164



OUTLINE SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS

- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SITE SAFETY ISSUES IN ACCORDANCE WITH OSHA AND ALL OTHER APPLICABLE REGULATIONS. GC SHALL DIRECT AND COORDINATE ALL TRADES WITH REGARD TO SAFETY CONFORMANCE AND REPORT ALL VIOLATIONS OR SAFETY RELATED INCIDENTS TO OWNER FIELD REPRESENTATIVES.
- CONTRACTOR SHALL EXECUTE ALL WORK IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES REQUIRED.
- THE CONTRACTOR SHALL CONTACT THE KENTUCKY PUBLIC SERVICE COMMISSION (1-800-712-4696) AND EACH UTILITY COMPANY AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION OPERATIONS WHICH MAY INVOLVE A UTILITY COMPANY'S FACILITY.
- IF ANY HUMAN REMAINS OR ARTIFACTS OF HISTORICAL OR CULTURAL SIGNIFICANCE ARE DISCOVERED DURING PROJECT CONSTRUCTION, ALL WORK MUST CEASE IMMEDIATELY. CONTRACTOR SHALL ADVISE VERIZON WIRELESS' FIELD CONSTRUCTION SUPERVISOR IMMEDIATELY AND WAIT FOR FURTHER INSTRUCTIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING INSPECTORS AND SCHEDULING ALL REQUIRED INSPECTIONS RELATING TO ALL CONSTRUCTION.
- ALL CONSTRUCTION EQUIPMENT PARKED OUTSIDE LEASE AREA & OFF PARCEL MUST BE APPROVED IN WRITING BY ADJACENT PROPERTY OWNER. ANY DAMAGE CAUSED BY EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SURVEYS, GEOTECHNICAL REPORTS, TOWER & BUILDING DESIGNS ARE PREPARED BY OTHERS AND ARE NOT PART OF THE CONTRACT DOCUMENTS BY JESTER JONES SCHIFER ARCHITECTS LTD. THEY ARE PACKAGED HEREIN FOR REFERENCE PURPOSES. ANY DISCREPANCIES BETWEEN THE ABOVE DOCUMENTS AND THOSE PREPARED BY JESTER JONES SCHIFER ARCHITECTS LTD. SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER.
- ANY MODIFICATION TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER.

DIVISION 2 - SITEWORK

- THE STATE OF KENTUCKY TRANSPORTATION CABINET AND CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, INCLUDING ALL SUPPLEMENTS THERETO SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE PART OF THIS PLAN UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR IS TO BE RESPONSIBLE FOR HAVING EQUIPMENT ON SITE TO HELP IN PLACING EQUIPMENT CABINET (IE, DOZER ETC. AVAILABLE TO PULL CRANE OR TRACTOR TRAILER OVER ROUGH OR WET SITE CONDITIONS). GENERAL CONTRACTOR TO ANCHOR CABINET AND INSTALL ALL FIXTURES ASSOCIATED W/ CABINET. ANCHORS/FIXTURES PROVIDED BY CABINET MANUFACTURER.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PLANTINGS AND GENERAL GRADE CONDITION OF GRASSED AREA AROUND SITE. ALL RUTS GENERATED BY THE GENERAL CONTRACTOR SHALL BE LEVELED, RESEEDED AND PROTECTED. RESEEDING OF DISTURBED SOIL SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
  - DISTURBED SOIL SHALL BE CLEARED OF ROCKS TO PREPARE LAND FOR RESEEDING. TOPSOIL SHALL BE PLACED OVER AREAS TO RECEIVE SEED.
  - A TACKIFIER SHALL BE USED TO HOLD DOWN STRAW OVER SEEDING AREA.
  - AN ADEQUATE AMOUNT OF SEED AND FERTILIZER SHALL BE USED TO ASSURE EVEN GROWTH. RESEEDING SHALL BE FOLLOWED BY AN INITIAL WATERING.
- IMPORTED FILL MATERIAL SHALL BE OF THE TYPE REQUIRED AND COMPACTED AS DIRECTED BY GEOTECHNICAL ENGINEER, REPORT AVAILABLE FROM OWNER.
- COMPACT SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGE OF MAXIMUM DENSITY, IN ACCORDANCE WITH ASTM D 1557:
  - UNDER BUILDING SLABS, STEPS, WALKWAYS, AND PAVEMENTS, COMPACT TOP 12 INCHES OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 95 PERCENT MAXIMUM DENSITY.
  - UNDER LAWN OR UNPAVED AREAS, COMPACT TOP 6 INCHES OF SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL AT 90 PERCENT MAXIMUM DENSITY.
  - REMOVE AND REPLACE OR SCARIFY AND AIR DRY, SOIL MATERIAL THAT IS TOO WET TO PERMIT COMPACTION TO SPECIFIED DENSITY.
- CABINET SLAB IS DESIGNED FOR 2500 PSF BEARING NORMAL SOIL. NND LOADING FOR SHELTER ANCHORAGE IS 40 MPH.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RETURNED TO ORIGINAL CONDITION. FINISH GRADES SHALL BE ADJUSTED AS REQUIRED TO ELIMINATE ANY POUDING OF WATER.
- DRIVE AND TURNAROUND ARE EXISTING GRAVEL TO BE DRESSED WITH 2" WASHED ODOT ITEM #51 GRAVEL AFTER CONSTRUCTION IS COMPLETE.
- ANY SURPLUS SOIL GENERATED BY EXCAVATION WORK SHALL BE REMOVED FROM THE SITE BY THE GENERAL CONTRACTOR. ALL EXCESS MATERIALS SHALL BE REMOVED FROM SITE, EXCEPT WITH THE EXPRESSED WRITTEN PERMISSION OF THE PROPERTY OWNER.
- IF A TRENCHER IS USED FOR EXCAVATION FOR THE GROUND RING, THE GENERAL CONTRACTOR SHALL PROVIDE ACCESS CLEARANCE AT ALL POINTS WHERE CAD WELDS ARE TO OCCUR (IE, HIDDEN TRENCH BY HAND DIGGING) GROUND RING IS TO BE A MINIMUM OF 24" BELOW FINISHED GRADE.
- PORTION OF EXISTING GRAVEL COMPOUND DISTURBED BY CONSTRUCTION TO BE TOPPED W/ 2" #51 GRAVEL AFTER CONSTRUCTION IS COMPLETE.
- ELECTRICAL TRENCH SHALL BE BACKFILLED WITH # 51 GRAVEL. CONTRACTOR SHALL HALL ANVAY SPOILS FROM SITE.

DIVISION 3 - CONCRETE

- THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR TAKING CONCRETE TEST CYLINDERS. CYLINDERS WILL BE MOLDED IN ACCORDANCE WITH ASTM-112. CYLINDERS WILL BE LABORATORY CURED IN ACCORDANCE WITH ASTM C-31. STRENGTH TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM C-31.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING CODE AND ACI REQUIREMENTS FOR REINFORCED CONCRETE.
- CONCRETE SHALL BE PROTECTED FROM FREEZING & RAPID DRYING. AUXILIARY HEAT TO BE PROVIDED IN FREEZING WEATHER. CONCRETE TO BE COVERED AND KEPT WET FOR THREE DAYS AFTER POURING IN HOT, DRY WEATHER.
- REINFORCING BARS SHALL CONFORM TO ASTM-A615-B2 GRADE 60 SPECIFICATIONS AND BE DETAILED IN ACCORDANCE WITH CURRENT ACI HANDBOOK.
- ALL CONCRETE REINFORCING BARS MUST BE WRE-TIED.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

- ALL ATTACHMENTS TO EXTERIOR OF SHELTER SHALL BE CALKED WITH SILICONE AT TOP AND SIDE SEAMS - COLOR TO MATCH SHELTER.

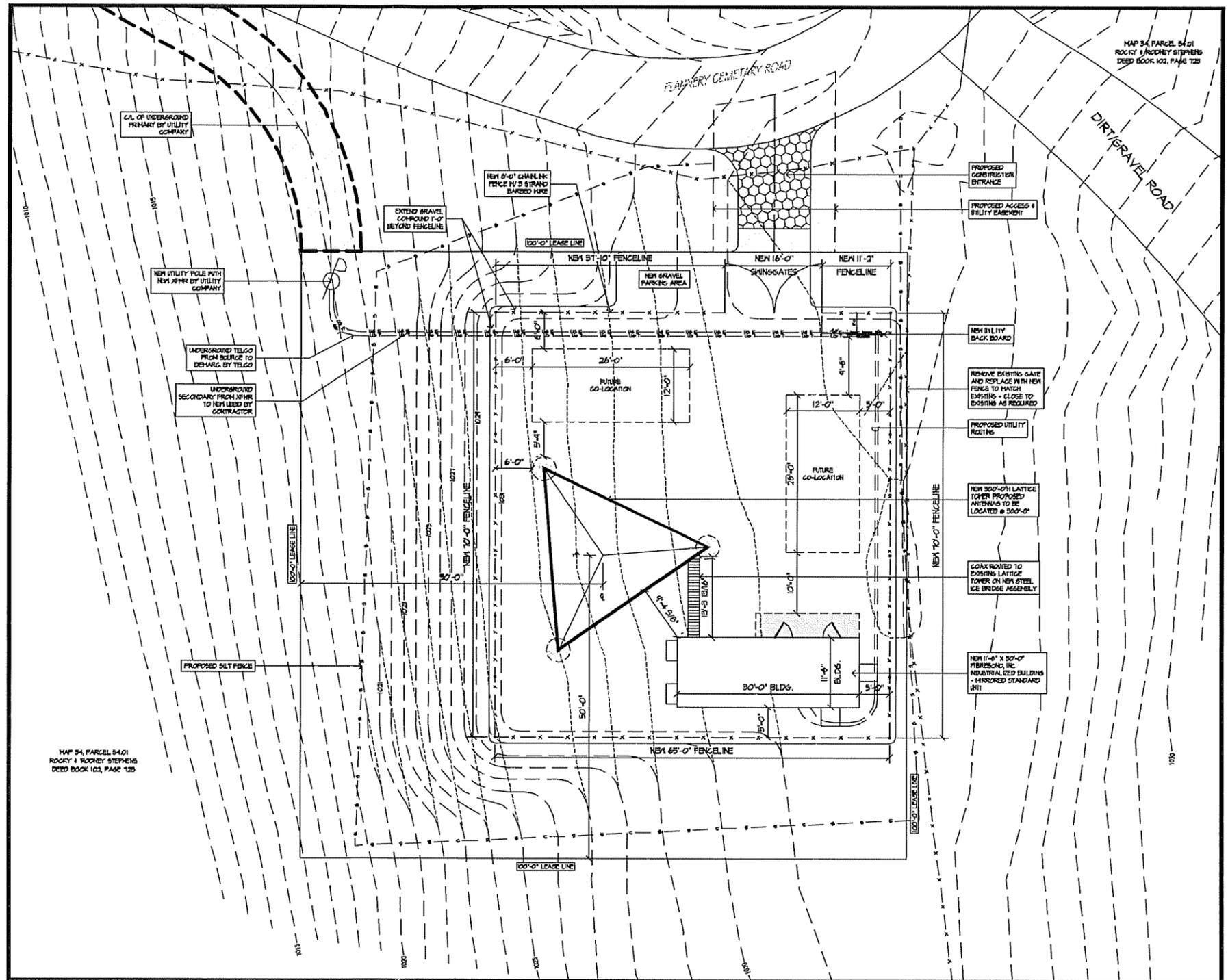
GENERAL SCOPE OF WORK

GENERAL PROJECT SCOPE:

- SIGNAL BUILDING IS AN INDUSTRIALIZED UNIT BUILDING, MANUFACTURED BY FIBRECORD - SHELTER HEIGHT: 68,000 LBS. TOWER TO SHELTER RELATIONSHIP SHALL BE MIRRORRED ORIENTATION.
- NEW LATTICE TOWER IS 300'H. PROPOSED ANTENNAS SHALL BE LOCATED @ 300'-0"
- PROPOSED (12) PANEL ANTENNAS @ 300' W (4) RING LDF-T COAX.
- ACCESS GATES & FENCE ARE NEW CHAINLINK PER OUTLINE SPECIFICATIONS.
- CONSTRUCTION AREA SHALL BE GRAVEL FILL PER DETAIL SHEET A-2.
- ACCESS DRIVE TO BE GRAVEL PAVED PER DETAIL SHEET A-2.
- PROVIDE CONCRETE BLOCKING @ PROPANE TANK SUPPORT BRACKETS AS REQUIRED BY PROPANE SUPPLIER.

NOTICE TO BIDDERS:

- CONTRACTOR SHALL PROVIDE QUOTATIONS FOR THE FOLLOWING ALTERNATE:
  - PROVISION AND MAINTENANCE OF A 30KW PORTABLE GENERATOR FOR USE BY ALL TRADES AND THE OWNER. GENERATOR TO BE EQUIPPED WITH NOISE REDUCTION PACKAGE LIMITING NOISE TO 65 DECIBELS. PROVIDE UNIT PRICING BY THE WEEK AND MONTH.
- CONTRACTOR IS RESPONSIBLE FOR ALL WORK INDICATED IN GENERAL NOTES, EXCEPT AS SPECIFICALLY MODIFIED IN WRITING IN THE OWNER'S INVITATION TO BIDDERS.
- CONTRACTORS SHALL REVIEW THE DRAWINGS AND VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY AND ALL DISCREPANCIES TO THE OWNER PRIOR TO SUBMISSION OF BID. IF PARTS OF DRAWINGS AND/OR SPECS DISAGREE, THE CONTRACTOR SHALL BASE HIS BID ON AND BE RESPONSIBLE FOR THE GREATER QUANTITY OR QUALITY.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRASH ON AND BE RESPONSIBLE FOR THE GREATER QUANTITY OR QUALITY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRASH ON THE SITE INCLUDING ANYONE DIRECTLY OR INDIRECTLY CONTRACTED THROUGH THE GC OR VERIZON WIRELESS DBA NENPAR. THIS WILL INCLUDE ANY TOWER WORK OR INTERIOR RF EQUIPMENT INSTALLATION Hired OUT DIRECTLY BY VERIZON WIRELESS DBA NENPAR.



BUILDING SET-UP SPECIFICATIONS

INSTALL THE FOLLOWING OWNER FURNISHED ITEMS AS PART OF THE "EQUIPMENT" SHELTER SET-UP:

- ANCHOR SHELTER TO CONCRETE PAD PER MANUFACTURER'S SPECIFICATIONS
- INSTALL LIGHT FIXTURES
- FRICION PADS BETWEEN BOTTOM OF SHELTER AND CONCRETE PAD
- INSTALL TWO (2) SIGNS:
  - "NO SMOKING" SIGN ON SHELTER ENTRY DOOR W/ ADHESIVE
  - "IN CASE OF EMERGENCY..." ON ENTRY GATE TO LEASE AREA
- BATTERIES FOR INTERIOR EMERGENCY LIGHTS
- ANY ASSOCIATED CONDUIT
- DOOR ANNNINGS
- GENERATOR MUFFLER

SHELTER SHALL RECEIVE A FINAL CLEANING AT A POINT IN CONSTRUCTION DESIGNATED BY OWNER/NENPAR DBA VERIZON WIRELESS. BOTH SHELTER AND RF EQUIPMENT SHALL BE CLEANED FREE OF ANY DUST, AND FLOORS SHALL BE THOROUGHLY CLEANED THEN RECEIVE FOUR (4) COATS OF WAX.

OWNER: RODNEY STEPHENS  
CONTACT: RODNEY STEPHENS  
PHONE #: 606-226-2211

NON-EMERGENCY FIRE  
PHONE #: 606-474-5759

NON-EMERGENCY POLICE  
PHONE #: 606-474-6222

ELECTRIC COMPANY CONTACT:  
CONTACT: AEP  
PHONE #: 800-572-1113  
POLE #: 247-111

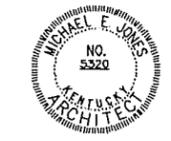
TELEPHONE COMPANY CONTACT:  
CONTACT: ALLTEL  
PHONE #: 800-947-1941  
P.O.T.S.#: 606-226-4605



SITE ENLARGEMENT

1"=20'

ITEM	UNIT	QUANTITY	DESCRIPTION
201	SF	5244	CLEARING & GRUBBING
600X	SF	5244	MIRAFI PREFABRICATED DRAINAGE FABRIC
#2	CY	67	AGGREGATE
#304	CY	67	AGGREGATE
#57	CY	33	AGGREGATE
601	LF	1	2 - 8'-0" FENCE GATE - CL (MOD)
607	LF	254	FENCE - CL (MOD)



JESTER JONES SCHIFER ARCHITECTS

Our Marion Office:  
255 N. Chestnut St.  
S. No. 200  
Marion, Ohio 43042  
Phone: 614-285-0212  
Fax: 614-285-0211  
E-mail: marion@jja.com

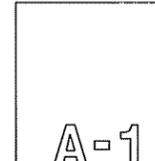
Our Columbus Office:  
Attn: Gary Pitzer  
60381 Thompson Dr.  
S. No. 200  
Columbus, Ohio 43211  
Phone: 614-730-1107  
Fax: 614-730-1106  
E-mail: gipitzer@jja.com

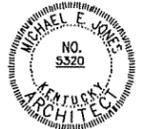
As shown on these drawings, the contractor shall be responsible for obtaining all necessary permits and licenses for the project. The contractor shall be responsible for obtaining all necessary permits and licenses for the project. The contractor shall be responsible for obtaining all necessary permits and licenses for the project.

OLIVEHILL ST. #1175

CELLCO dba VERIZON WIRELESS  
SITE #VZ-HRGN-043 TICK RIDGE TRAW LAND  
614 FLANNERY CEMETERY ROAD

DATE: 11/30/07





**JESTER JONES SCHIFER ARCHITECTS**

Our Merion Office  
 255 N. Chestnut St.  
 S. 400 E20  
 Merion, Ohio 43026  
 Phone: (614) 582-6223  
 Fax: (614) 582-6220  
 E-mail: jester@jester.com

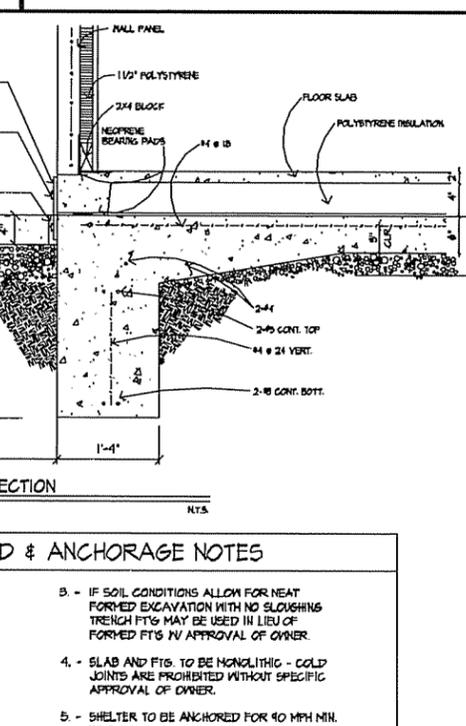
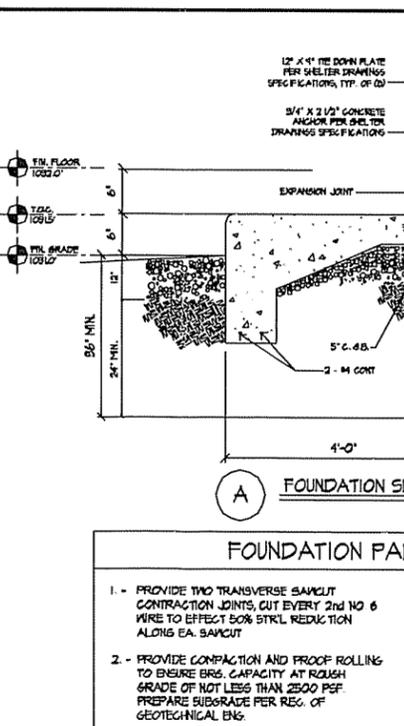
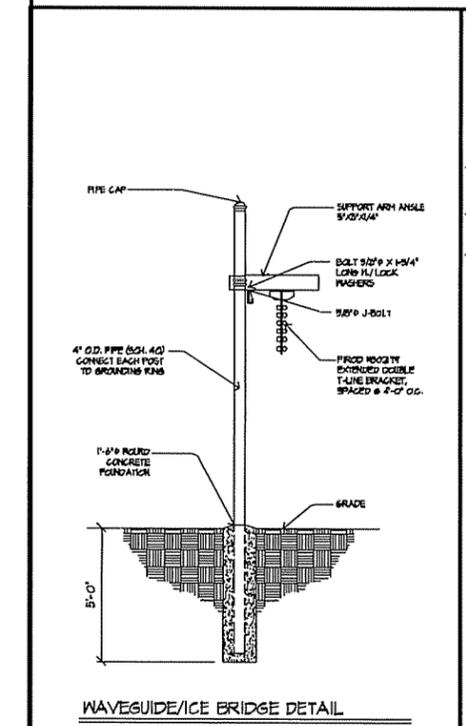
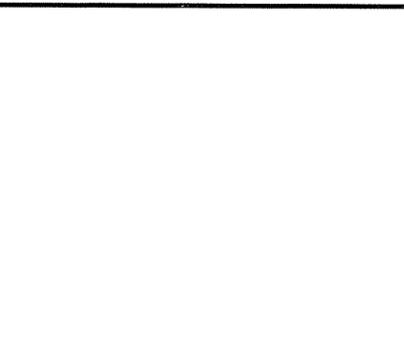
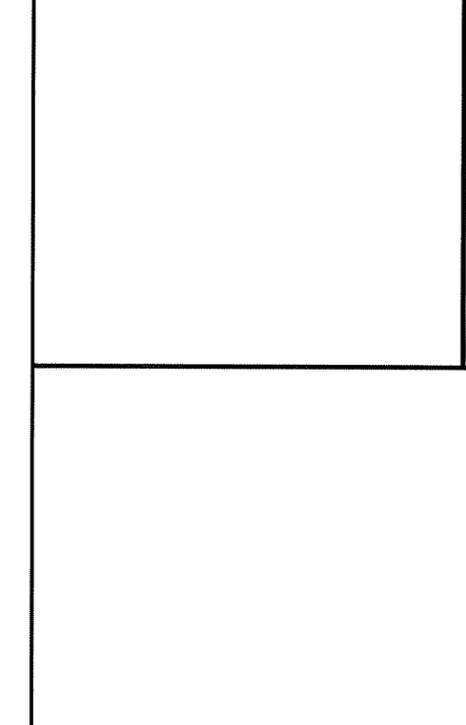
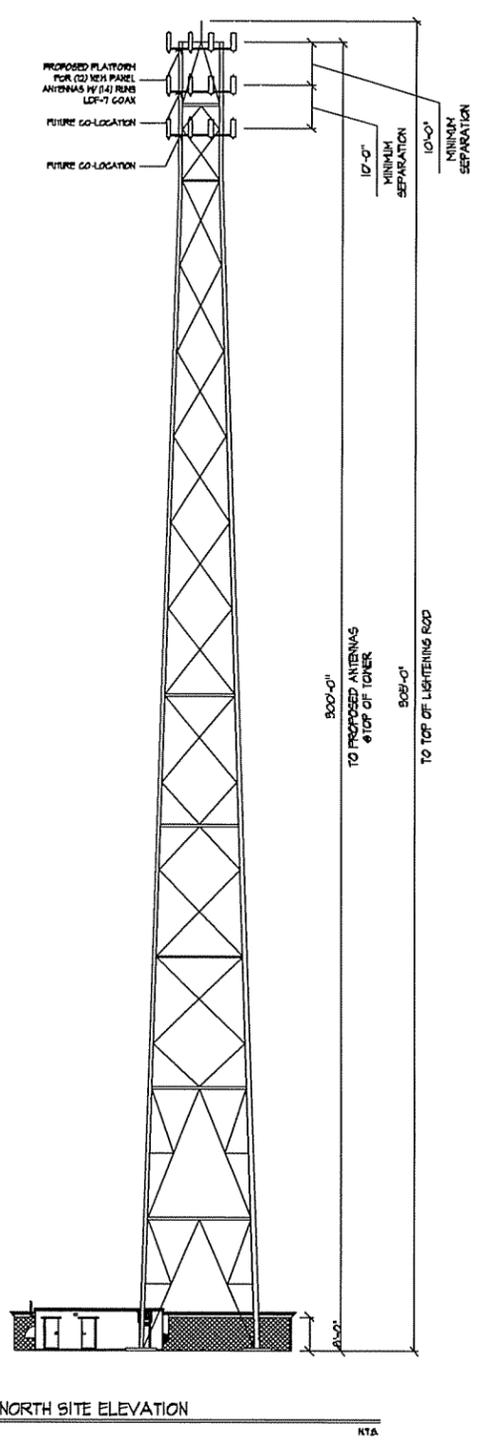
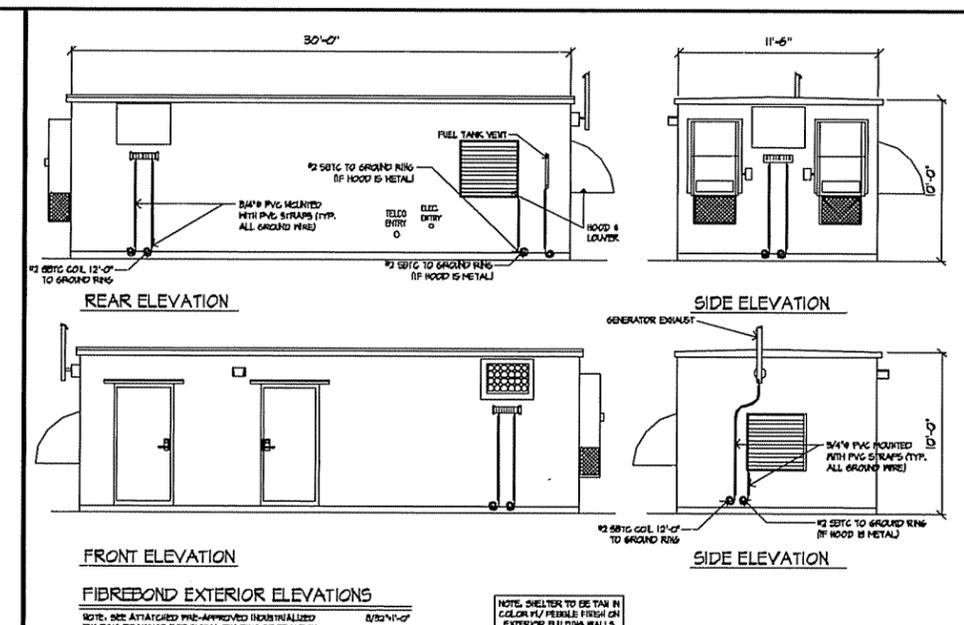
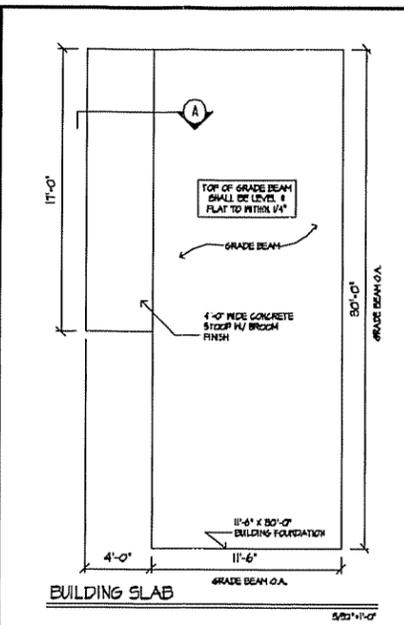
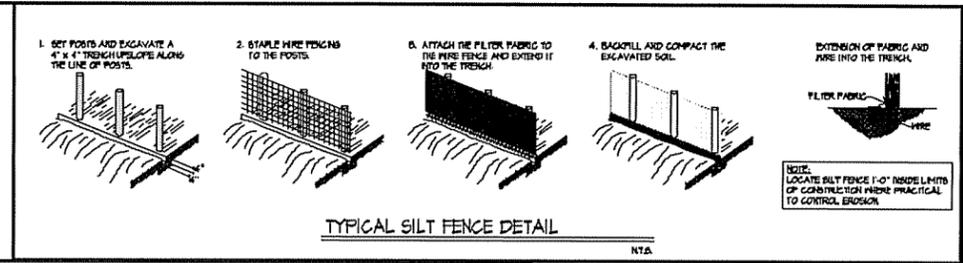
Our Columbus Office  
 4000 Riverchase Blvd.  
 S. 400 E20  
 Columbus, Ohio 43219  
 Phone: (614) 451-1000  
 Fax: (614) 451-1000  
 E-mail: jester@jester.com

ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODES AND ALL APPLICABLE LOCAL ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EASEMENTS AND RIGHTS-OF-WAY FROM THE APPROPRIATE OWNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES INFORMATION FROM THE APPROPRIATE UTILITIES COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SURVEYING INFORMATION FROM THE APPROPRIATE SURVEYOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE DESIGNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE CONSULTANT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE SPECIALIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE PROFESSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE EXPERT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE WITNESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE OFFICIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE AUTHORITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE GROUP. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ORGANIZATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ASSOCIATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE SOCIETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE UNION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ORDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE FRATERNITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE LODGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE CLUB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE SOCIETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ASSOCIATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE UNION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE ORDER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE FRATERNITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE LODGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE CLUB. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RECORD DRAWINGS FROM THE APPROPRIATE SOCIETY.

OLIVE HILL KY 41113

CELLCO dba VERIZON WIRELESS  
 SITE #VZ-HTGN-043 TICK RIDGE RAW LAND  
 614 PLAINVIEW CEMETERY ROAD

DATE: 11/30/07



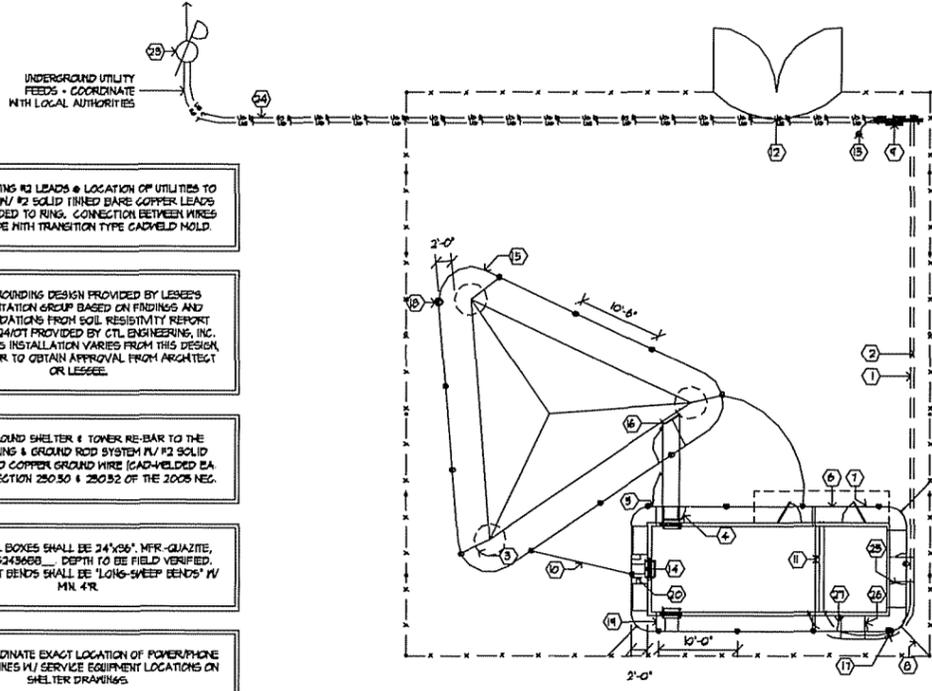
- FOUNDATION PAD & ANCHORAGE NOTES**
1. - PROVIDE TWO TRANSVERSE SAWCUT CONTRACTION JOINTS, CUT EVERY 2nd NO 6 WIRE TO EFFECT 50% STEEL REDUCTION ALONG EA. SAWCUT
  2. - PROVIDE CONTRACTION AND PROOF ROLLING TO ENSURE BRG. CAPACITY AT ROUGH GRADE OF NOT LESS THAN 2500 Pcf. PREPARE SUBGRADE PER REC. OF GEOTECHNICAL ENG.
  3. - IF SOIL CONDITIONS ALLOW FOR NEAT FORMED EXCAVATION WITH NO SLOUSHING TRENCH FTGS MAY BE USED IN LIEU OF FORMED FTGS IN APPROVAL OF OWNER.
  4. - SLAB AND FTGS. TO BE MONOLITHIC - COLD JOINTS ARE PROHIBITED WITHOUT SPECIFIC APPROVAL OF OWNER.
  5. - SHELTER TO BE ANCHORED FOR 40 MPH MIN. WIND LOADINGS

**ELECTRICAL SPECIFICATIONS**

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AS A MINIMUM STANDARD, AND THE LATEST EDITION OF THE OCCUPATIONAL SAFETY AND HEALTH ACT.
2. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS WHICH AFFECT HIS WORK. BIDS SHALL BE BASED ON EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR WORK WHICH COULD HAVE BEEN ANTICIPATED BY MAKING SUCH SITE VISIT.
3. ALL MATERIALS AND EQUIPMENT FOR WHICH UNDERWRITERS LABORATORIES EXAMINATION SERVICE IS AVAILABLE SHALL BE INSPECTED AND TESTED AND SHALL BEAR THE UL LABEL.
4. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY BONDS, LICENSES AND CERTIFICATE OF FINAL INSPECTION AS REQUIRED.
5. ELECTRICAL PLANS ARE DIAGNOSTIC AND ARE INTENDED ONLY TO INDICATE THE APPROXIMATE LOCATIONS OF SERVICE ENTRANCES, THE GROUNDING SYSTEM, AND CONNECTIONS TO THE TOWER. THE EXACT LOCATIONS AND ROUGH-IN DIMENSIONS FOR ALL WORK AND EQUIPMENT SHALL BE OBTAINED FROM THE CONTRACT MANAGER IN THE FIELD AS THE WORK PROGRESSES. SHOULD THE ELECTRICAL CONTRACTOR FAIL TO PROPERLY ASCERTAIN SUCH LOCATIONS OR DIMENSIONS, HE SHALL CHANGE SUCH WORK AT HIS OWN EXPENSE WHEN SO DIRECTED BY THE CONTRACT MANAGER. THE CONTRACT MANAGER RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF ANY ELECTRICAL WORK OR EQUIPMENT PRIOR TO ROUGH-IN WITH NO ADDITIONAL COST.
6. ALL ELECTRICAL CONDUCTORS OUTDOORS ABOVE GRADE, OR BENEATH THE BUILDING, OR IN POURED CONCRETE SHALL BE INSTALLED IN A COMPLETE CONDUIT SYSTEM. CONDUIT SHALL BE 1/2" MINIMUM SIZE. CONDUIT SHALL BE HEAVYWALL GALVANIZED STEEL OR HEAVYWALL PVC WITH GROUNDING CONDUCTOR. CONDUIT BODIES SHALL BE MALLEABLE IRON WITH GALVANIZED PRESSED STEEL COVERS AND WITH THREADED CONNECTORS FOR HEAVYWALL CONDUIT. FLEXIBLE CONDUIT OUTDOORS SHALL BE UL APPROVED LIQUID TIGHT PROVIDE NEOPRENE GASKETS FOR ALL CONDUIT BODY OR OUTLET BOX COVERS OUTDOORS.
7. WIRE SHALL BE COPPER WITH 600V INSULATION. SIZES #4 THROUGH #10 MAY BE THINWALL SIZES #6 AND LARGER SHALL BE THINWALL OR #14 ALUMINUM CONDUCTORS WILL NOT BE PERMITTED.
8. PROVIDE ALL POWER WIRING, OUTLETS, CONNECTIONS, ETC. AS REQUIRED FOR ALL MECHANICAL EQUIPMENT ELECTRICAL CONTRACTOR SHALL DO ALL POWER AND CONTROL WIRING.
9. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING, OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CARE SHALL BE TAKEN NOT TO CUT STRUCTURAL PORTIONS OF THE BUILDING. IF IN DOUBT, THE LESSEE CONSTRUCTION MANAGER SHALL BE CONSULTED PRIOR TO CUTTING.
10. ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES AND, UPON COMPLETION, SHALL TURN OVER TO THE OWNER A "RECORD" SET OF PRINTS SHOWING THESE CHANGES.
11. SAFETY AND DISCONNECT SWITCHES ARE PROVIDED AS PART OF THE PREMANUFACTURED SIGNAL BUILDING PACKAGE. ELECTRICAL CONTRACTOR SHALL INSTALL SERVICE THRU METER AND DISCONNECT AS REQUIRED TO ENERGIZE THE BUILDING.
12. ALL NON-CURRENT-CARRYING METAL PARTS OF THE SYSTEM SHALL BE PROPERLY GROUNDED PER NEC.
13. ELECTRICAL CONTRACTOR SHALL PROVIDE SITE GROUNDING COMPLETE INCLUDING ALL FINAL CONNECTIONS MEASURE GROUND RESISTANCE UPON COMPLETION AND ADD GROUND RODS AS REQUIRED TO ACHIEVE A GROUND RESISTANCE OF LESS THAN FIVE (5) OHMS. MEGGER TESTS SHALL BE SUPERVISED BY LESSEE. A COPY OF THE TEST RESULTS SHALL BE SENT TO LESSEE INTEGRATION DEPARTMENT.
14. ALL GROUNDING CONNECTIONS SHALL BE MECHANICAL COMPRESSION TYPE INCLUDING THE TOWER AND GROUND BUS. PROVIDE SIDE FORMED HIGH PRESS CRIMP STYLE LUGS AT ALL LOCATIONS SECURED WITH CADMIUM PLATED 1/2" BOLTS, NUTS AND STAR WASHERS, 5M ELECTRICAL PRODUCTS, 3000 SERIES, 2-HOLE LONG-BARREL COPPER TYPE, OR APPROVED EQUAL.
15. ELECTRICAL CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE WITH OWNER AND POWER COMPANY AND PROVIDE ALL WORK (MATERIAL AND LABOR) NECESSARY TO COMPLETE THE SERVICE, INCLUDING THE FINAL CONNECTIONS TO THE LINE SIDE OF THE MAIN SWITCH.
16. ELECTRICAL CONTRACTOR SHALL COORDINATE TELEPHONE SERVICE WITH THE OWNER AND TELEPHONE COMPANY AND PROVIDE ALL WORK (MATERIAL AND LABOR) NECESSARY FOR A COMPLETE AND OPERATING TELEPHONE SERVICE.
17. IT SHALL BE THE RESPONSIBILITY OF CONTRACTORS INSTALLING ALARMS, TELEPHONE OR OTHER COMMUNICATION SYSTEMS REQUIRING SEPARATE PERMITS TO OBTAIN AND PAY FOR ANY PERMIT FOR THEIR WORK.
18. MATERIAL, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED BY THIS CONTRACTOR AT HIS EXPENSE.
19. ELECTRICAL CONTRACTOR SHALL MAINTAIN A CLEAN SITE AT ALL TIMES AND, UPON COMPLETION OF THE PROJECT, SHALL REMOVE ALL OF HIS TOOLS, EQUIPMENT AND DEBRIS.
20. ELECTRICAL CONTRACTOR SHALL HOOK UP OWNER-PROVIDED RECTIFIER BAYS.

**ELECTRICAL KEYNOTES**

1. ELECTRICAL SERVICE ENTRANCE, (B) #5/0 MCM XHHW (1) #4 GROUND WIRE IN 4" PVC 5/8" 4Q - RISE UP SIDE OF BLDG TO ENTRANCE POINT
2. TELEPHONE ENTRANCE CONDUIT, 4" PVC 5/8" 4Q - RISE UP SIDE OF BLDG TO ENTRANCE POINT
3. #2 SOLID BARE TINNED COPPER TO SIDE FORMED LUGS SECURED TO TOWER. IF TOWER IS EQUIPPED W/ PLAT STEEL TAB, CONNECTION MAY BE GAD-HELDED, IF CONNECTION MUST BE DIRECT TO THE TOWER, FASTEN GROUND WIRE MECHANICALLY
4. ATTACH GROUND LEMERS FROM ICE BRIDGE, GAD-HELDED TO ICE BRIDGE SUPPORT, TYPICAL @ EACH POLE. #2 SOLID BARE TINNED COPPER GROUND WIRE @ BASE OF POST, GAD-HELDED TO SUPPORT AND ROUTED DOWN TO GROUND RING.
5. GAD-HELDED TEE TOP - TYPICAL
6. SHELTER GROUND RING - #2 SOLID BARE TINNED COPPER GROUND WIRE 30" BFG & 24" FROM SHELTER FOUNDATION (TYPICAL)
7. 3/8" X 10'-0" GALVANIZED STEEL GROUND ROD - TYPICAL. RODS TO BE EQUALLY SPACED, SPACING TO BE 10'-0" WITH A TOTAL OF (6) RODS FOR THE SHELTER GROUND RING AND 10'-6" WITH A TOTAL OF (1) RODS FOR THE TOWER GROUND RING
8. #2 SOLID BARE TINNED COPPER GROUND WIRE @ 30" BFG GAD-HELDED TO FENCE (TYPICAL OF 3 LOCATIONS)
9. NEH UTILITY SERVICE FRAME PER DETAIL, THIS SHEET
10. #2 SOLID BARE TINNED COPPER GROUND WIRE ATTACHED FROM TOWER GROUND RING TO SHELTER GROUND RING, LENGTH OF RUN TO BE BETWEEN 10'-0" AND 20'-0" (TYPICAL OF 2 LOCATIONS)
11. MASTER GROUND BUSS (MSB) GROUNDED TO GROUND RING WITH (2) RING OF #2 SOLID BARE TINNED COPPER WIRE (EA. FRONT & BACK)
12. PROVIDE 1'-0" FLEXIBLE STRAPPING BETWEEN GATE POST AND GATE (TYPICAL OF 2 W/ HIGH COMPRESSION CRIMP STYLE LUGS, THRU-BOLTED TO BOTH LOCATIONS)
13. ISOLATED GROUND FOR METER GROUNDING PER NEC
14. GROUND EXTERIOR BUS BAR TO GROUND RING WITH (2) RING OF #2 SOLID BARE TINNED COPPER GROUND WIRE AT 1/0 PORT AND OPTIONAL 1/0 PORT LOCATIONS (TOTAL OF 3 LOCATIONS)
15. TOWER GROUND RING - #2 SOLID BARE TINNED COPPER GROUND WIRE 30" BFG (TYPICAL)
16. NEH ISOLATED GROUND BAR @ TOWER BASE GROUNDED TO TOWER GROUND RING WITH #2 SOLID BARE TINNED COPPER GROUND WIRE
17. PROPOSED 12" PVC TEST WELL WITH GLUE-ON CAP WITH SCREW-ON COVER FOR SHELTER GROUND RING SEE DETAILS THIS SHEET
18. PROPOSED 12" PVC TEST WELL WITH GLUE-ON CAP WITH SCREW-ON COVER FOR TOWER GROUND RING, SEE DETAILS THIS SHEET
19. SHELTER GROUNDED TO GROUND RING WITH #2 SOLID BARE TINNED COPPER (TYPICAL OF 6 LOCATIONS)
20. HVAC GROUNDED TO GROUND RING WITH #2 SOLID BARE TINNED COPPER (TYPICAL OF 2 LOCATIONS)
21. NOT USED
22. NOT USED
23. EXISTING POLE MOUNTED TRANSFORMER BY POWER COMPANY
24. SECONDARY POWER Routed FROM POLE TRANSFORMER (SUPPLIED BY POWER CO.) TO NEH USED BY ELECTRICAL CONTRACTOR PER POWER COMPANY'S REQUIREMENTS
25. GENERATOR EXHAUST STACK TO BE GROUNDED TO SHELTER GROUND RING WITH (1) RUN #2 SOLID BARE TINNED COPPER GROUND WIRE IN 3/4" @ SCH. 40 PVC CONDUIT ATTACHED TO SHELTER WALL
26. GENERATOR HOODS, IF METAL, TO BE GROUNDED TO SHELTER GROUND RING WITH (1) RUN EA. #2 SOLID BARE TINNED COPPER GROUND WIRE IN 3/4" @ SCH. 40 PVC CONDUIT ATTACHED TO SHELTER WALL
27. FUEL TANK VENT TO BE GROUNDED TO SHELTER GROUND RING WITH (1) RUN #2 SOLID BARE TINNED COPPER GROUND WIRE IN 3/4" @ SCH. 40 PVC CONDUIT ATTACHED TO SHELTER WALL



NOTE: EXISTING #2 LEADS @ LOCATION OF UTILITIES TO BE JOINED W/ #2 SOLID TINNED BARE COPPER LEADS AND GROUNDED TO RING. CONNECTION BETWEEN WIRES TO BE MADE WITH TRANSITION TYPE GAD-HELDED JOINT.

NOTE: GROUNDING DESIGN PROVIDED BY LESSEE'S IMPLEMENTATION GROUP BASED ON FINDINGS AND RECOMMENDATIONS FROM SOIL RESISTIVITY REPORT DATED 08/24/07 PROVIDED BY CTL ENGINEERING, INC. IF GROUNDING INSTALLATION VARIES FROM THIS DESIGN CONTRACTOR TO OBTAIN APPROVAL FROM ARCHITECT OR LESSEE.

NOTE: GROUND SHELTER & TOWER RE-BAR TO THE GROUND RING & GROUND ROD SYSTEM W/ #2 SOLID BARE TINNED COPPER GROUND WIRE (GAD-HELDED EA. END) PER SECTION 280.30 & 280.32 OF THE 2008 NEC.

NOTE: FULL BOXES SHALL BE 24"X36" MFR-QUAZITE, MODEL #P6243600. DEPTH TO BE FIELD VERIFIED. ALL CONDUIT BENDS SHALL BE LONG-SWEEP BENDS W/ MIN. 4R.

NOTE: COORDINATE EXACT LOCATION OF POWERPHONE ENTRANCE LINES W/ SERVICE EQUIPMENT LOCATIONS ON SHELTER DRAWINGS

NOTE: DIAL GROUND LEADS FROM THE SAME DEVICE SHOULD BE SEPARATED BY AT LEAST 5" HORIZONTAL SPACING ON THE GROUND RING.

NOTE: CONTRACTOR TO SEAL ALL CONDUITS WITH STEEL WOOL PACKED 2'-4" DEEP & FOAMED.

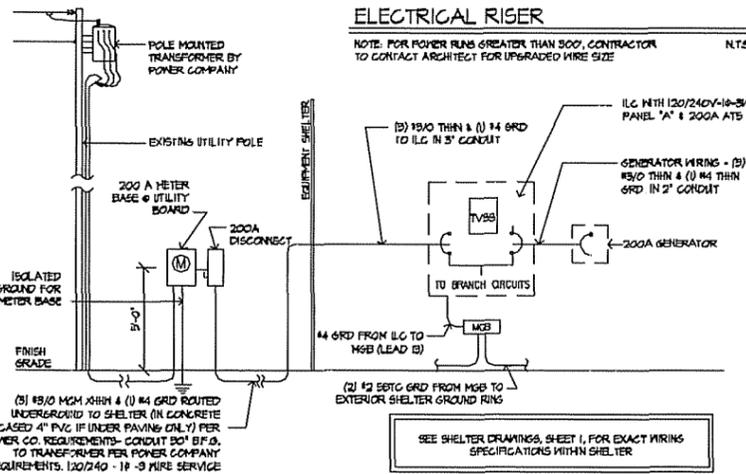
NOTE: COORDINATE EXACT LOCATION & NUMBER OF ICE BRIDGE SUPPORT POSTS W/ LESSEE.

**GROUNDING AND UTILITY PLAN**

NTS

NOTE: THE CONTRACTOR SHALL VERIFY QUANTITIES & CONFIGURATION OF SHELTER GROUND RING WITH THE OWNER PRIOR TO BID SUBMISSION.

CONTRACTOR SHALL ALSO VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES & GROUNDS (INSIDE AND OUTSIDE OF COMPOUND) PRIOR TO CONSTRUCTION



**ELECTRICAL RISER**

NOTE: FOR POWER RUNS GREATER THAN 500', CONTRACTOR TO CONTACT ARCHITECT FOR UPGRADED WIRE SIZE

NTS

POLE MOUNTED TRANSFORMER BY POWER COMPANY

EXISTING UTILITY POLE

200A METER BASE @ UTILITY BOARD

200A DISCONNECT

GENERATOR WIRING - (2) #5/0 THIN & (1) #4 THIN GRD IN 2" CONDUIT

200A GENERATOR

TO BRANCH CIRCUITS

MSB

4" SCH. 40 PVC CONDUIT ROUTED TO EXTERIOR SHELTER GROUND RING

(2) #2 BFG GRD FROM MSB TO EXTERIOR SHELTER GROUND RING

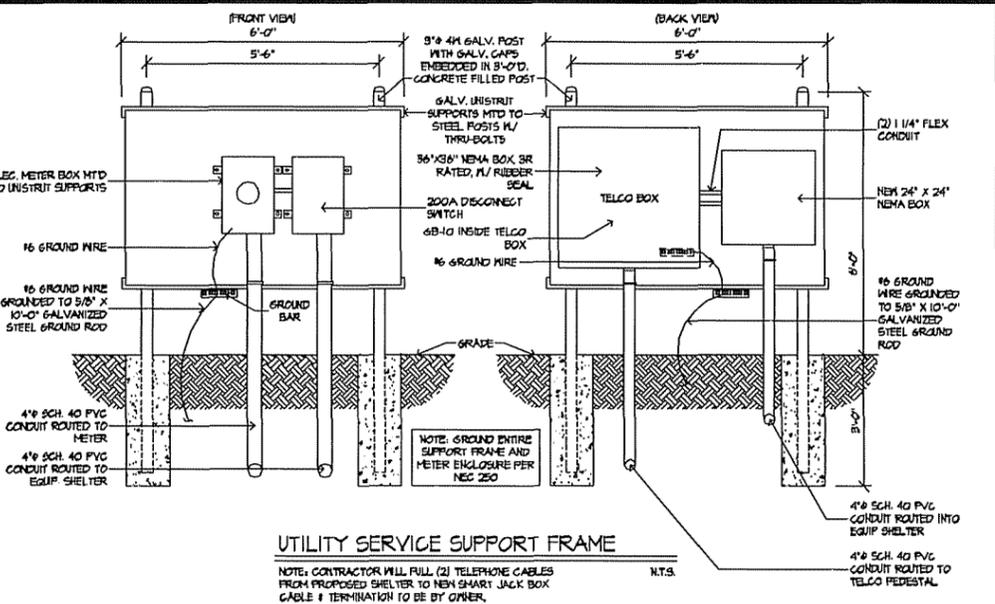
(3) #5/0 MCM XHHW & (1) #4 GRD ROUTED UNDERGROUND TO SHELTER (IN CONCRETE ENCASED 4" PVC IF UNDER PAVING ONLY) PER POWER CO. REQUIREMENTS- CONDUIT 30" BFG. TO TRANSFER PER POWER COMPANY'S REQUIREMENTS. 120/240 - 1F-3 WIRE SERVICE

SEE SHELTER DRAWINGS, SHEET 1, FOR EXACT WIRING SPECIFICATIONS WITHIN SHELTER

TYPE	UTILITY	L. O. S. P. 60HZ										M. BKR				
		WIRE SIZE	CS	PK	NO.	CS	PK	NO.	WIRE SIZE	CS	PK		NO.			
LOAD																
HVAC #1		8	30/2	1	8	4	30/2	8								HVAC #2
SCROLL FAN		12	8/4	3	8	6	20/2	12								HEATER
VENT SYSTEM		12	8/4	7	8	10	20/1	12								RECEPTACLES
LIGHTS		12	8/4	9	8	12	20/1	12								RECEPTACLES
SMOKE DETECTOR		12	8/4	11	8	14	20/1	12								BATTERY CHARGER
RECTIFIER #1		10	30/2	13	18	16	20/1	12								RECTIFIER #5
RECTIFIER #2		10	30/2	14	20	18	20/1	12								RECTIFIER #6
RECTIFIER #3		10	30/2	15	22	20	20/2	10								RECTIFIER #7
RECTIFIER #4		10	30/2	16	24	22	20/2	10								RECTIFIER #8
DEHYDRATOR		12	20/1	24	30	30	30/2	10								RECTIFIER #1
TOWER LIGHT CONTROLLER		10	30/2	21	32	34	30/2	10								RECTIFIER #8
				22	36	36										
				23	38	38										
				24	40	40										
				25	42	42										

**PANEL SCHEDULE**

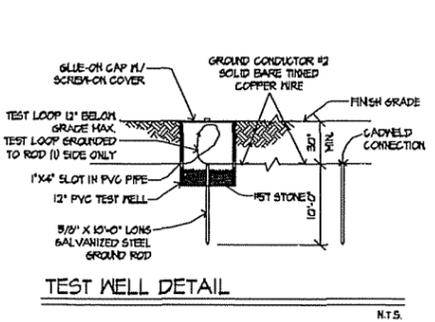
NOTE: SEE ATTACHED INDUSTRIALIZED UNIT DRAWINGS FOR EXPANDED PANEL SCHEDULE



**UTILITY SERVICE SUPPORT FRAME**

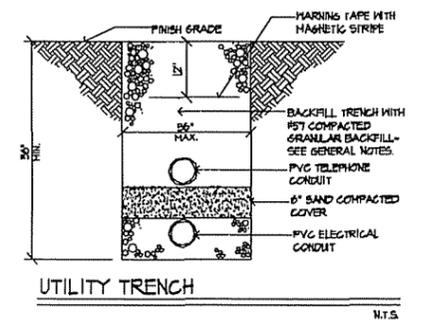
NOTE: CONTRACTOR WILL FILL (2) TELEPHONE CABLES FROM PROPOSED SHELTER TO NEH SHUNT JACK BOX CABLE TERMINATION TO BE BY OWNER.

NTS



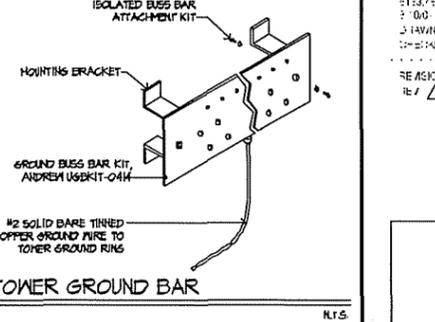
**TEST WELL DETAIL**

NTS



**UTILITY TRENCH**

NTS



**TOWER GROUND BAR**

NTS



**JESTER JONES SCHIFER ARCHITECTS**

Our Marine Office  
355 East Grand Street  
Suite 302  
Milton, KY 40342  
Phone: (502) 264-9300  
Fax: (502) 264-9301  
E-mail: jester@jester.com

Our Columbus Office  
A City Plaza  
605 South Main Street  
Suite 302  
Morton, KY 40120  
Phone: (502) 491-1200  
Fax: (502) 491-1201  
E-mail: jester@jester.com

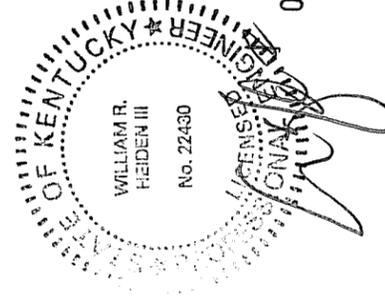
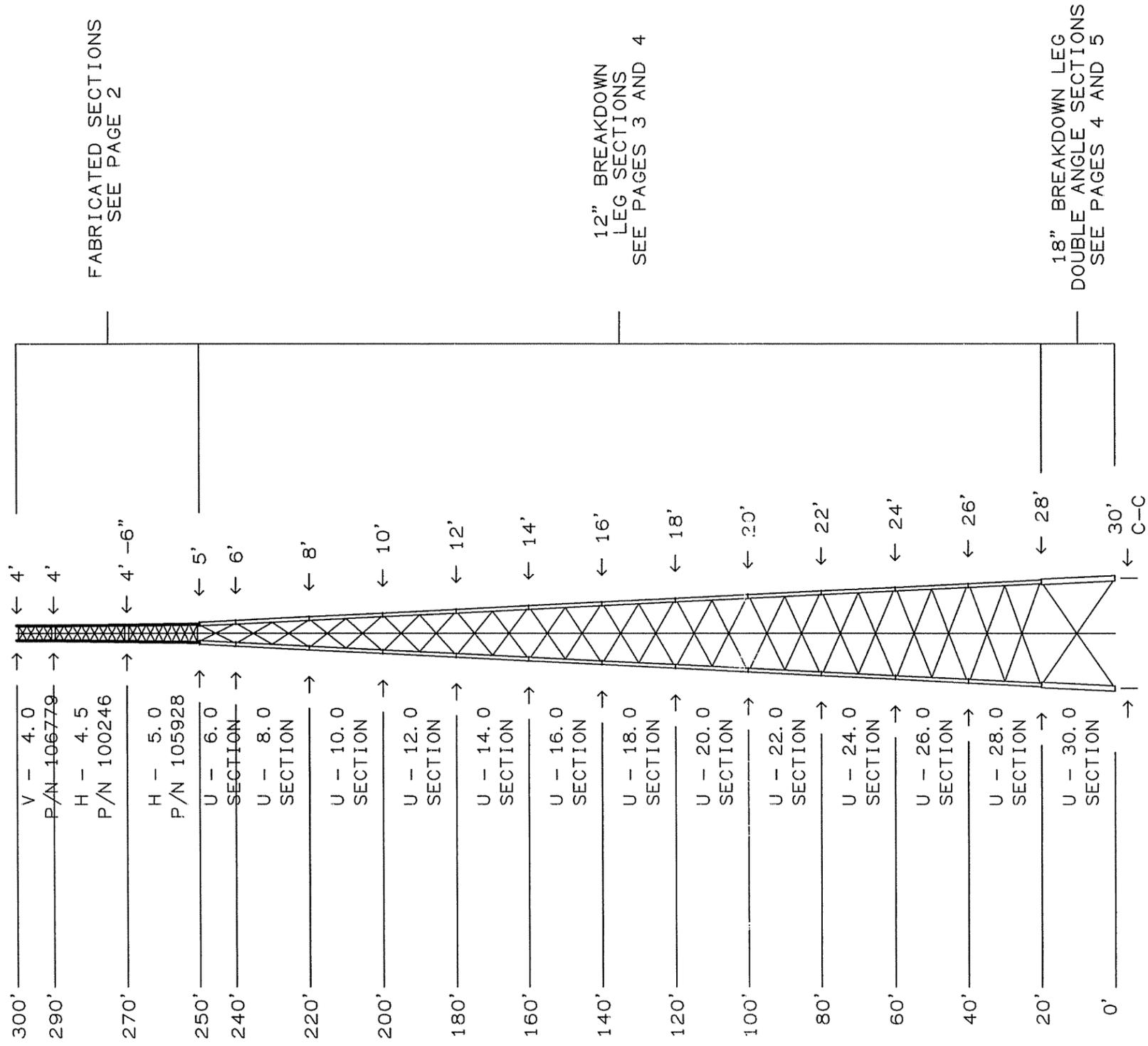
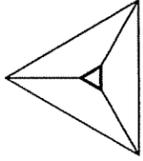
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0.5 VERTICAL DIMENSIONS

**CELCO dba VERIZON WIRELESS**  
SITE: #VZHTCN-043 TUCK RIDGE, RAWLAND  
6 PLANNING CEMETERY ROAD

DATE: 11/30/07

**EXHIBIT C**  
**TOWER AND FOUNDATION DESIGN**



William R. Heiden III, KY Professional Engineer # 22430

VERIZON WIRELESS  
TICK RIDGE HTGN043, KY  
U-30.0 X 300'

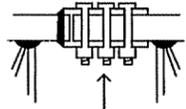
A		ADDED FOUNDATIONS	MS	10/19/2007	WRH	10/22/2007
REV	DESCRIPTION OF REVISIONS			INI	DATE	
VALMONT STRUCTURES IS A DIVISION OF VALMONT INDUSTRIES, INC. ENGINEERING PROVIDED BY PIROD, INC., WHOLLY OWNED BY VALMONT INDUSTRIES, INC.						
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Printed from 214621_010A.DWG - 10/18/2007 14:07 @ 10/22/2007 11:50						
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APPROVED/ENG.		APPROVED/FOUND.		COPYRIGHT 2007		
DRAWN BY		DRAWING NO.		ENG. FILE NO.		
M_S		214621		A-123177-		
F-1010764		PAGE		1 OF 12		



FABRICATED SECTION DATA 250' - 300' ELEVATION						
SECT LEN	SEC #	SECTION PART#	LEG SIZE	BRACE SIZE	SECT WT. * DIAM	BOLTS AT BOTTOM LENGTH #
10'	V-	4.0 106779+	1- 3/4 "	3/4 "	486# 5/8"	4-1/2" 15
20'	H-	4.5 100246	2 "	7/8 "	1190# 3/4"	5" 15
20'	H-	5.0 105928	2- 1/4 "	7/8 "	1440# 1 "	3-1/2" 18

\* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.

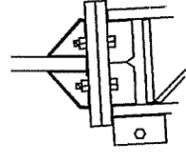
FABRICATED SECTIONS  
TYPICAL SLEEVE TYPE  
LEG CONNECTION



A325 BOLTS

SEE TABLE ABOVE FOR SIZE.

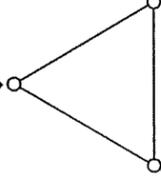
FABRICATED SECTIONS  
TRANSITION SIDE VIEW  
AT 250' ELEVATION



USE 1 FLATWASHER UNDER EACH  
LOCKNUT ON LEG CONNECTION.

FABRICATED SECTIONS  
GENERAL SECTION ASSEMBLY  
TOP VIEW

MARKED LEG



LADDER FACE

THE MARKED LEG OF EACH SECTION IS STAMPED WITH THE 6 DIGITS OF THE TOWER SERIAL #. ASSEMBLE THE TOWER WITH MARKED LEGS TOGETHER. THE MARKED LEG MAY ALSO CONTAIN JOINT NUMBERS STARTING WITH 1 AT THE TOP OF THE BASE SECTION. IF SO, ERECT WITH JOINTS IN THE PROPER SEQUENCE.

FABRICATED SECTION DATA 250' - 300' ELEVATION

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VERIZON WIRELESS  
TICK RIDGE HTGN043, KY  
U-30.0 X 300'

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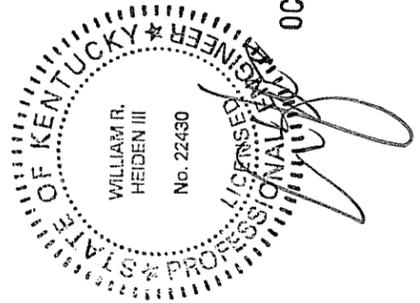
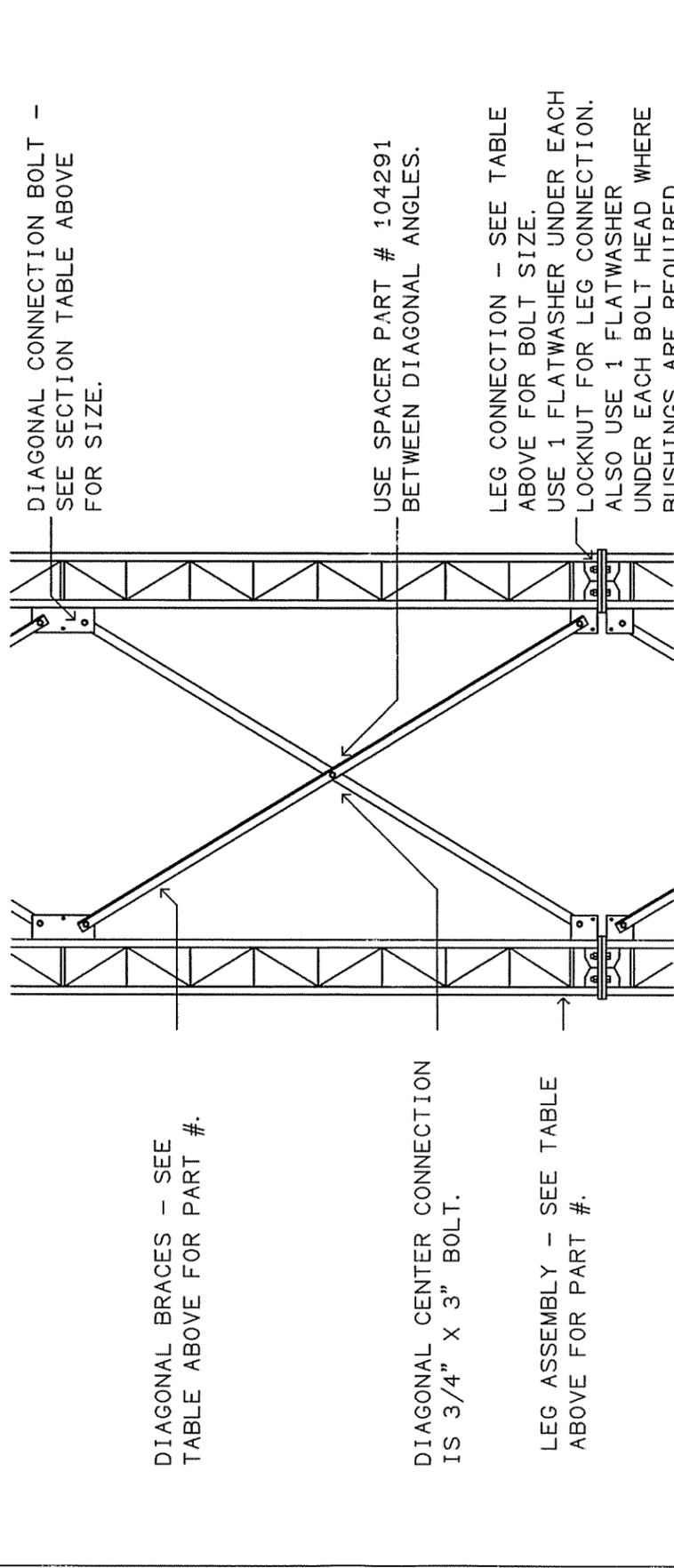
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BREAKDOWN SECTION DATA (12" LEG) 20' - 250' ELEVATION

SEC #	SECTION LENGTH	LEG SIZE	LEG PART#	TOP DIAG PART#	DIAG PART#	DIAGONAL		SECTION ANGLE THICK	SECTION WEIGHT	LEG CONNECT+		DIAG CONNECT LENGTH
						FACE	THICK			DIAM	LENGTH	
U-6.0	10'	1- 1/2"	195542		105556	2-1/2"	3/16"	3/16"	1139#	1 "	3-1/2"	1 " 2-1/4"
U-8.0	20'	1- 1/2"	195555	105558	105561	2-1/2"	3/16"	3/16"	2305#	1 "	3-1/2"	1 " 2-1/4"
U-10.0	20'	1- 1/2"	195555	105564	105567	2-1/2"	3/16"	3/16"	2346#	1 "	3-1/2"	1 " 2-1/4"
U-12.0	20'	1- 3/4"	195557	105570	105573	2-1/2"	3/16"	3/16"	2815#	1 "	3-1/2"	1 " 2-1/4"
U-14.0	20'	1- 3/4"	195557	105576	105579	3"	3/16"	3/16"	2980#	1 "	3-1/2"	1 " 2-1/4"
U-16.0	20'	1- 3/4"	195557	105582	105587	3"	3/16"	3/16"	3052#	1 "	4-1/4"	1 " 2-1/4"
U-18.0	20'	2 "	195559	128185	128186	3"	5/16"	5/16"	4335#	1-1/4"	4-1/2"	1-1/4" 2-3/4"
U-20.0	20'	2 "	195559	105599	105602	4"	1/4"	1/4"	4587#	1-1/4"	4-1/2"	1-1/4" 2-3/4"
U-22.0	20'	2 "	195559	105604	105607	4"	1/4"	1/4"	4729#	1-1/4"	4-1/2"	1-1/4" 2-3/4"
U-24.0	20'	2- 1/4"	195560	113422	113423	4"	1/4"	1/4"	5421#	1-1/4"	4-1/2"	1-1/4" 2-3/4"
U-26.0	20'	2- 1/4"	195560	106919	106920	4"	3/8"	3/8"	6498#	1-1/4"	4-1/2"	1-1/4" 2-3/4"
U-28.0	20'	2- 1/4"	195560	129143	129144	4"	3/8"	3/8"	6716#	1-1/4"	5"	1-1/4" 2-3/4"

\* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.  
 + USE 1 FLATWASHER UNDER EACH LOCKNUT, FOR LEG CONNECTION ONLY. ALSO USE 1 FLATWASHER UNDER EACH BOLT HEAD WHERE BUSHINGS ARE REQUIRED.

TYPICAL BREAKDOWN SECTION ASSEMBLY (12" LEG) 20' - 250' ELEVATION



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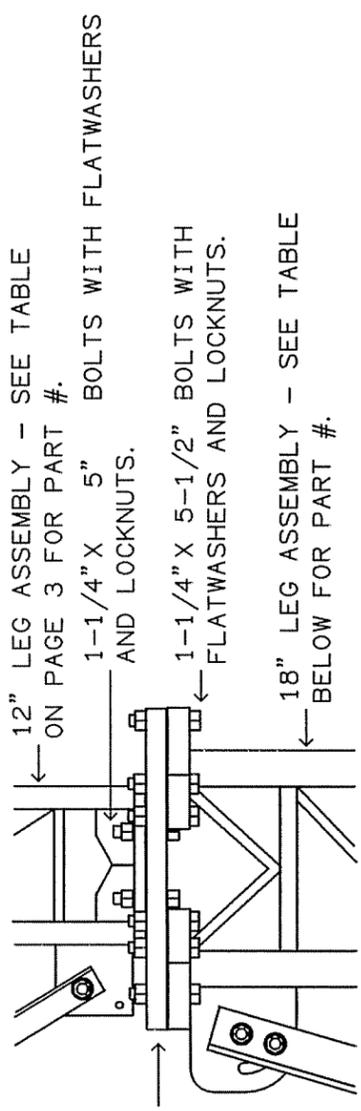
VERIZON WIRELESS  
 TICK RIDGE HTGN043, KY  
 U-30.0 X 300'

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LEG TRANSITION FROM 12" TO 18" SECTIONS AT 20' ELEVATION



ADAPTER PLATE PART # 128693  
USE 1 FLATWASHER UNDER EACH LOCKNUT FOR LEG CONNECTION.

12" LEG ASSEMBLY - SEE TABLE ON PAGE 3 FOR PART #.  
1-1/4" X 5" BOLTS WITH FLATWASHERS AND LOCKNUTS.  
1-1/4" X 5-1/2" BOLTS WITH FLATWASHERS AND LOCKNUTS.  
18" LEG ASSEMBLY - SEE TABLE BELOW FOR PART #.

BREAKDOWN SECTION LEG DATA (18" LEG WITH DOUBLE ANGLES) 0' - 20' ELEVATION

SECTION	LEG				LEG CONNECT @ BOTTOM+		ADAPTER AT TOP						
	#	MODEL	LENGTH	WEIGHT*	SIZE	STYLE	PART #	DIAM	LENGTH	CONNECTION BOLT PART #	DIAM	LENGTH	#
1	U-30.0	20'	7440#	2- 1/2 "	5/8" PLATE	139283		128693	1-1/4"	5-1/2"	12		

\* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY.  
ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.  
+ QUANTITY IS PER LEG. USE 1 FLATWASHER UNDER EACH LOCKNUT.

BREAKDOWN SECTION DIAGONAL DATA (18" LEG WITH DOUBLE ANGLES) 0' - 20' ELEVATION

SECTION	DIAGONAL PART #			DIAG ANGLE	DIAG BOLT	CENTER PLATE	SPACER						
	#	MODEL	UPPER					LOWER	LONG	FACE	THICK	DIAM	LENGTH
1	U-30.0	112864	112860	112794	4"	1/4"	1 "	3-1/2"	153241	153239	1		

\* QUANTITY IS PER BOLT.  
+ USE 1 FLATWASHER UNDER EACH LOCKNUT.



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VERIZON WIRELESS  
TICK RIDGE HTGN043, KY  
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TYPICAL BREAKDOWN SECTION ASSEMBLY (18" LEG WITH DOUBLE ANGLES) 0' - 20' ELEVATION

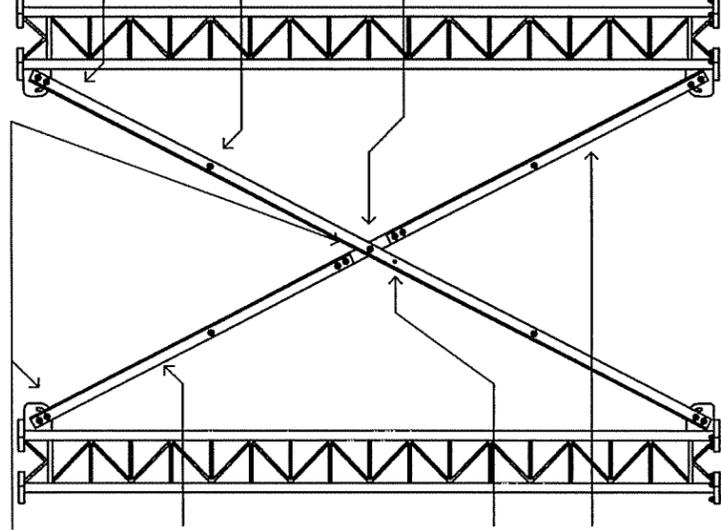
DIAGONAL CONNECTION BOLTS -  
SEE DIAGONAL TABLE ON PAGE 4  
FOR SIZE.

"UPPER" DIAGONAL BRACES  
(BACK TO BACK ANGLES) - SEE  
TABLE ON PG. 4 FOR PART #.

**ATTENTION ERECTOR: DO NOT  
LIFT 18" PREASSEMBLED LEG  
SECTIONS! DAMAGE TO THE LEGS  
AND DIAGONALS MAY RESULT!**

THIS HOLE REMAINS OPEN.

"LOWER" DIAGONAL BRACES  
(BACK TO BACK ANGLES) - SEE  
TABLE ON PG. 4 FOR PART #.



"LONG" DIAGONAL BRACE  
(BACK TO BACK ANGLES) - SEE  
TABLE ON PG. 4 FOR PART #.

INTERMEDIATE DIAGONAL BOLTS  
AT 4 LOCATIONS PER PANEL ON  
EACH FACE. SEE TABLE ON PG. 4  
FOR PART # AND QUANTITY  
PER BOLT.

DIAGONAL CENTER PLATE -  
SEE DIAGONAL TABLE ON PAGE 4  
FOR PART #.



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VERIZON WIRELESS  
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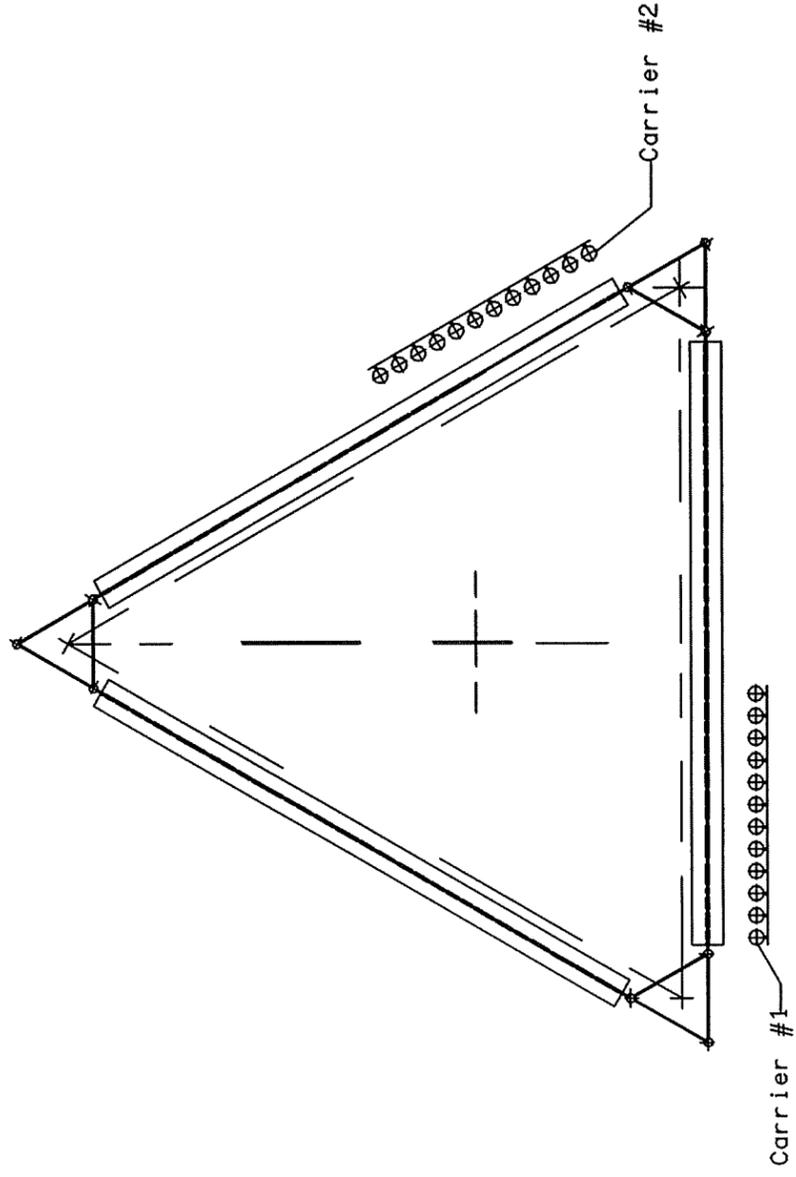
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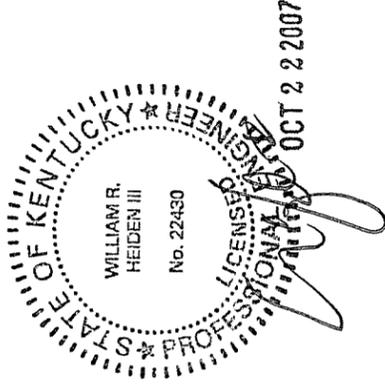


STYLE #3 - 1X12 SYMMETRIC  
TWO CARRIER

TRANSMISSION LINE INSTALLATION NOTES

1. ALL LINES ARE TO BE PLACED IN THE SEQUENCE SHOWN ON THIS PAGE.
2. TOTAL QUANTITY OF LINES AND CARRIERS MUST NOT EXCEED THE LISTED QUANTITIES IN THE GENERAL NOTES AS SHOWN ON PAGE 7 OF THIS DRAWING. ALTERATION OF THE PLACEMENT SEQUENCE MAY REDUCE THE STRUCTURE'S ABILITY TO SUPPORT THE NOTED ANTENNA AND LINE LOADING. ANY ALTERATION VOIDS THE CERTIFICATION OF THE STRUCTURE.
3. REFERENCE INSTALLATION DRAWINGS 158351, 157426, 156217 AND 159093.

TRANSMISSION LINE INSTALLATION



William R. Heiden III, KY Professional Engineer # 22430

VERIZON WIRELESS  
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GENERAL NOTES

1. TOWER DESIGN CONFORMS TO STANDARD TIA-222-G UTILIZING AN 90 MPH 3-SEC GUST BASIC WIND SPEED WITH A STRUCTURE CLASS OF II, TOPOGRAPHIC CATEGORY OF 1 AND EXPOSURE C CRITERIA WITH NO ICE. TOWER DESIGN CONFORMS TO STANDARD TIA-222-G UTILIZING AN 30 MPH 3-SEC GUST BASIC WIND SPEED WITH A STRUCTURE CLASS OF II, TOPOGRAPHIC CATEGORY OF 1 AND EXPOSURE C CRITERIA WITH .75" RADIAL ICE. TOWER MEETS THE REQUIREMENTS OF THE 2004 KENTUCKY BUILDING CODE (2000 INTERNATIONAL BUILDING CODE) UTILIZING AN 90 MPH 3-SEC GUST BASIC WIND SPEED WITH AN IMPORTANCE FACTOR OF 1.00 AND EXPOSURE C CRITERIA AND IN ACCORDANCE WITH STANDARD EIA/TIA-222-E.
  2. TWIST AND SWAY PER TIA-222-G FOR 6 FT. DIAMETER DISHES AT 6 GHZ (LESS THAN OR EQUAL TO 1.44 DEGREES) AT 60 MPH WITH NO ICE AT 265 FT. ABOVE THE BASE OF THE TOWER. ALL OPERATIONAL WINDLOADS ARE ASSUMED TO OCCUR AT 33 FT. ABOVE GROUND LEVEL.
  3. MATERIAL: (A) SOLID RODS TO ASTM A572 GRADE 50.  
(B) ANGLES TO ASTM A36.  
(C) PIPE TO ASTM A500 GRADE B.  
(D) STEEL PLATES TO ASTM A36.  
(E) CONNECTION BOLTS TO ASTM A325 OR ASTM A449 (Fu=120 KSI AND Fy=92 KSI) AND ANCHOR BOLTS TO ASTM A687 (Fu=150 KSI AND Fy=105 KSI).
  4. BASE REACTIONS PER TIA-222-G FOR 90 MPH BASIC WIND SPEED WITH NO ICE.  
(REACTIONS INCLUDE TIA-222-G LOAD FACTORS.)  
TOTAL WEIGHT = 83.0 KIPS.  
MOMENT = 11935.0 KIP-FT.  
MAXIMUM SHEAR = 74.0 KIPS TOTAL.  
MAXIMUM COMPRESSION = 487.0 KIPS PER LEG.  
MAXIMUM UPLIFT = 423.0 KIPS PER LEG.
  5. BASE REACTIONS PER TIA-222-G FOR 30 MPH BASIC WIND SPEED WITH 0.75" RADIAL ICE:  
(REACTIONS INCLUDE TIA-222-G LOAD FACTORS.)  
TOTAL WEIGHT = 266.0 KIPS.  
MOMENT = 1770.0 KIP-FT.  
MAXIMUM SHEAR = 10.0 KIPS TOTAL.
  6. FINISH: ALL BOLTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A153 (HOT DIPPED) OR ASTM B695 CLASS 50 (MECHANICAL). ALL OTHER STRUCTURAL MATERIALS ARE GALVANIZED IN ACCORDANCE WITH ASTM123.
  7. ANTENNAS: 300' -(12) ALP6014 PANELS MOUNTED ON (3) 15' LT. WT. T-FRAMES WITH 1-5/8" LINES  
285' -(12) ALP6014 PANELS MOUNTED ON (3) 15' LT. WT. T-FRAMES WITH 1-5/8" LINES  
265' -(2) 8' HP DISHES (6 GHZ ASSUMED) WITH EW52 WAVEGUIDE
- NOTE: (A) ELEVATIONS ARE TO THE BOTTOM OF THE ANTENNAS, EXCEPT FOR MICROWAVE DISHES, WHICH ARE TO THE CENTERLINE.
8. REMOVE FOUNDATION TEMPLATE PRIOR TO ERECTING TOWER. INSTALL BASE SECTION WITH MINIMUM OF 2" CLEARANCE ABOVE CONCRETE. SEE BASE SECTION PLACEMENT ON PAGE 10. PACK NON-SHRINK STRUCTURAL GROUT UNDER BASE SECTION AFTER LEVELING TOWER.
  9. MIN. WELDS 5/16" UNLESS OTHERWISE SPECIFIED. ALL WELDING TO CONFORM TO AWS D1.1
  10. ALL BOLTS AND NUTS MUST BE IN PLACE BEFORE THE ADJOINING SECTIONS ARE INSTALLED.
  11. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC SPECIFICATION UNLESS OTHERWISE NOTED. A MORE QUANTITATIVE ALTERNATIVE APPROACH TO ACHIEVING A SNUG TIGHT CONDITION IS TO TIGHTEN USING THE TORQUE VALUES FROM DRAWING 123107-A.
  12. TIA-222-G GROUNDING FOR TOWER.
  13. FAA COMPLIANT LIGHT KIT



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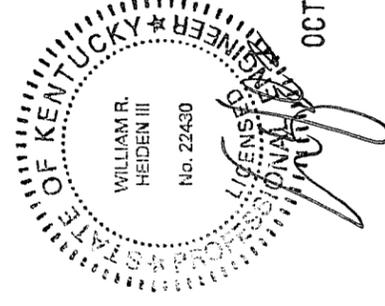
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FOUNDATION NOTES

1. SOIL AS PER REPORT FSTAN DATED 9/16/07 (FILE # 06-4165)
2. CONCRETE TO BE 3000 PSI @28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 (2002) BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. A COLD JOINT IS PERMISSIBLE UPON CONSULTATION WITH PIROD. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.
4. ALL REINFORCING STEEL TO BE FORMED INTO A CAGE PRIOR TO SETTING INTO POSITION IN THE EXCAVATED PIER.
5. PERMANENT STEEL CASING SHALL NOT BE USED WITHOUT CONSENT FROM FOUNDATION DESIGNERS.
6. BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.
7. CROWN TOP OF FOUNDATION FOR PROPER DRAINAGE.
8. A TEMPORARY, FULL LENGTH STEEL CASING MAY BE REQUIRED DURING INSTALLATION.
9. DIFFICULT DRILLING AND/OR ROCK CORING IS TO BE EXPECTED. THE DRILLING CONTRACTOR SHOULD BE PREPARED TO REMOVE ROCK AND/OR ROCK CORES FROM THE EXCAVATION.
10. THE ON-SITE GEOTECHNICAL ENGINEER SHALL CONFIRM THAT THE INSITU SOIL STRENGTHS MEET OR EXCEED THOSE PARAMETERS GIVEN IN THE SOIL REPORT.



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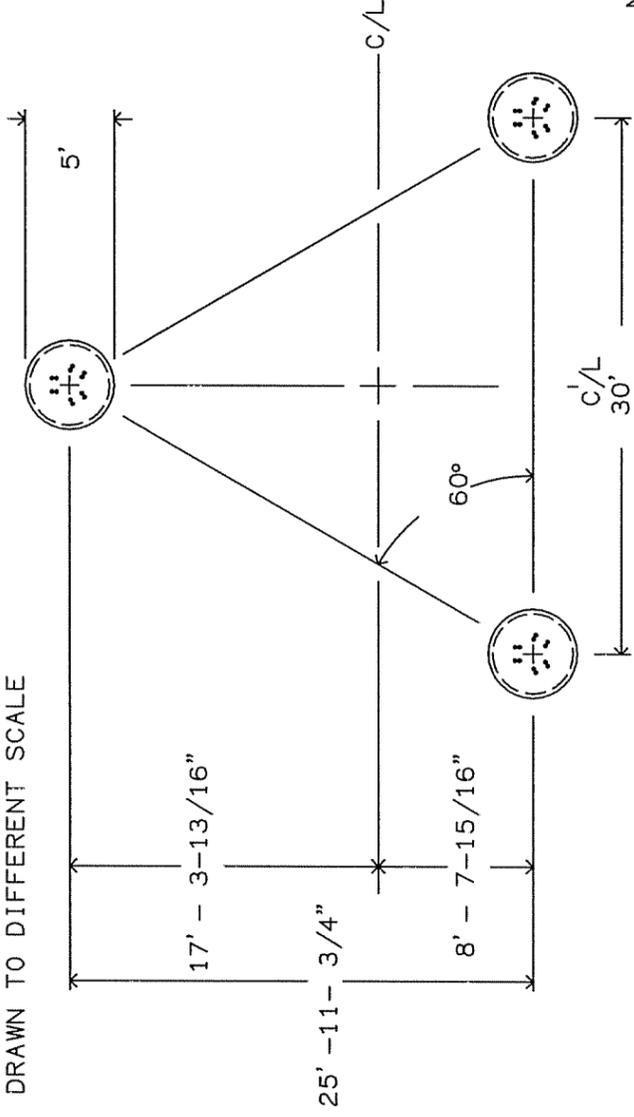
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TOP VIEW

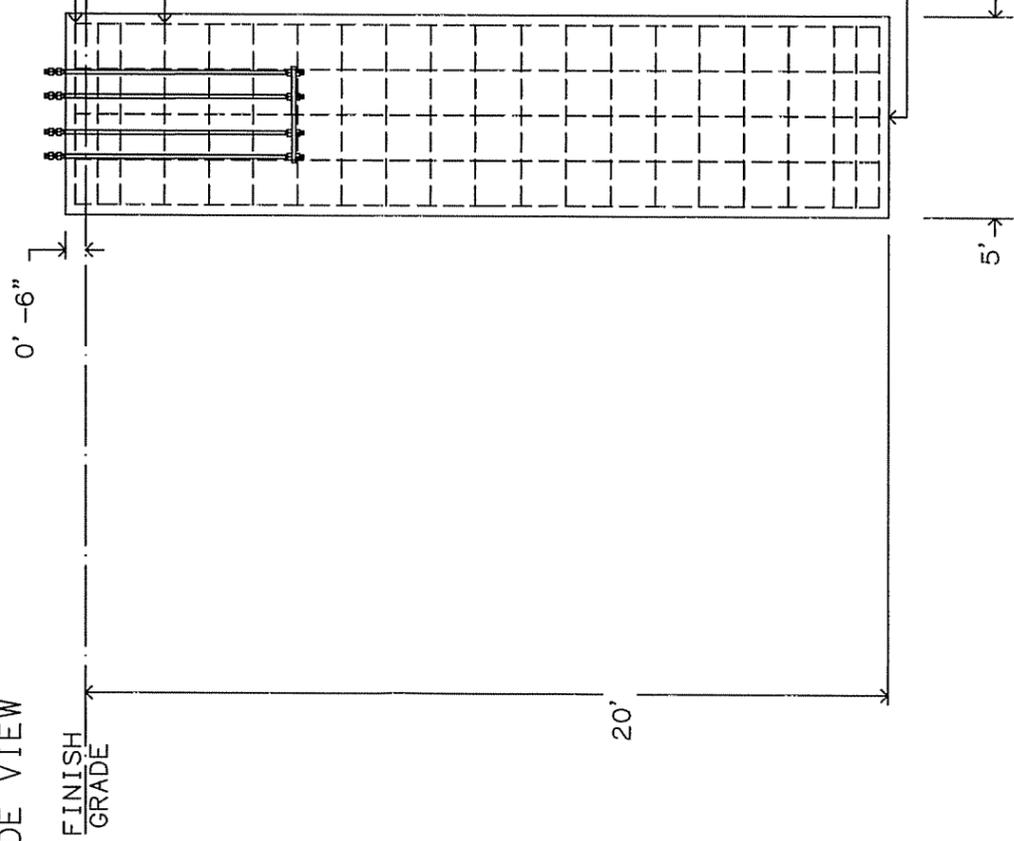
TOP AND SIDE VIEWS ARE  
DRAWN TO DIFFERENT SCALE



NOTE: ALL REBAR REQUIRES MINIMUM  
3" CONCRETE COVERAGE

FOR ANCHOR STEEL IDENTIFICATION  
AND PLACEMENT INFORMATION, SEE  
PAGE 11. SEE PAGE 12 FOR BASE  
SECTION INSTALLATION DETAIL.

SIDE VIEW



FOR DETAIL VIEW OF REBAR CAGE  
END AREA, SEE **(E)** ON PAGE 10.

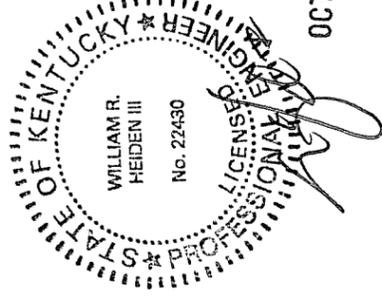
# 4 HORIZONTAL TIES - SEE **(B)** ON PAGE 10.  
18 PIECES REQUIRED PER PIER,  
EQUALLY SPACED.

# 8 VERTICAL REBAR - SEE **(A)** ON PAGE 10.  
19 PIECES REQUIRED PER PIER,  
EQUALLY SPACED, TO BE PLACED  
INSIDE TIES.

TOWER FOUNDATION

THREE PIERS REQUIRED  
14.9 CUBIC YARDS CONCRETE REQUIRED EACH PIER

FOR INSTALLATION SPECIFICATIONS AND  
ADDITIONAL INFORMATION, SEE PAGE 8  
OF THIS DRAWING.



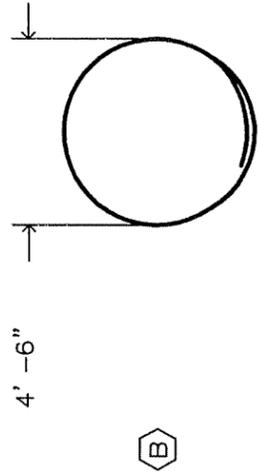
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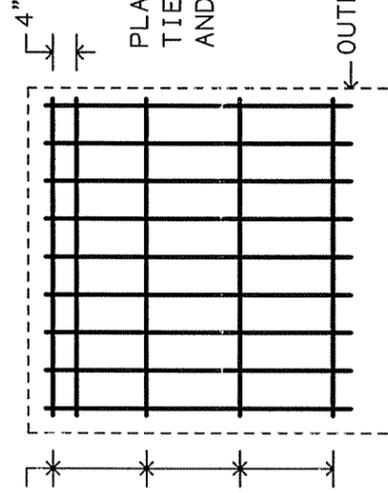
# 8 REBAR - 57 PIECES REQ. TOTAL  
APPROX WT = 53.4# EACH, 3044# TOTAL



# 4 REBAR - 54 PIECES REQUIRED TOTAL  
APPROX UNBENT LENGTH = 15' - 11 - 1/8"  
APPROX WT = 10.6# EACH, 572# TOTAL

LAP DIMENSION: 1' - 9 - 3/8"  
PLACE CIRCULAR TIES SO THAT LAPS ON  
ADJACENT TIES ARE 180 DEGREES APART.

1' - 4"  
PLACE FIRST TIE AT END OF VERTICAL  
BARS (TOP AND BOTTOM) AND CONTINUE  
SPACING AS SHOWN THROUGHOUT PIER.



DETAIL OF REBAR CAGE END

PLACE AN ADDITIONAL CIRCULAR  
TIE 4" FROM THE END TIE (TOP  
AND BOTTOM) AS SHOWN.

← OUTLINE OF CONCRETE PIER

REBAR DETAIL

TOTAL APPROX REBAR WEIGHT = 3616#  
REINFORCING BAR TO CONFORM TO  
ASTM A615 GRADE 60 SPECIFICATIONS.



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VERIZON WIRELESS  
TICK RIDGE HTGN043, KY  
U-30.0 X 300'

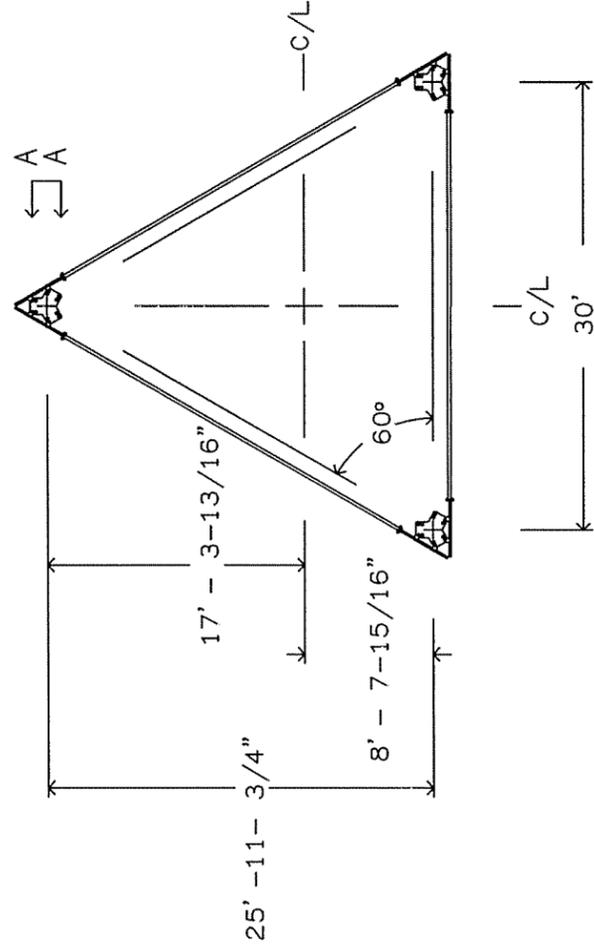
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214621  
PAGE

TEMPLATE ASSEMBLY P/N 159378 INCLUDES CORNER PLATE P/N 153393, IS REQUIRED FOR INSTALLATION AND MUST BE PLACED AS SHOWN. SEE DRAWING # 161476 FOR TEMPLATE ASSEMBLY DETAILS. EACH LEG MUST BE CENTERED IN PIER WITHIN +/- 10% OF PIER DIAMETER. TEMPLATE MUST BE LEVEL +/- 1 DEGREE. INSTALL TEMPLATE WITH SUFFICIENT SPACE BENEATH (2" MINIMUM) TO PERMIT FINISHING OF CONCRETE AND TO FACILITATE TEMPLATE REMOVAL PRIOR TO TOWER ERECTION.

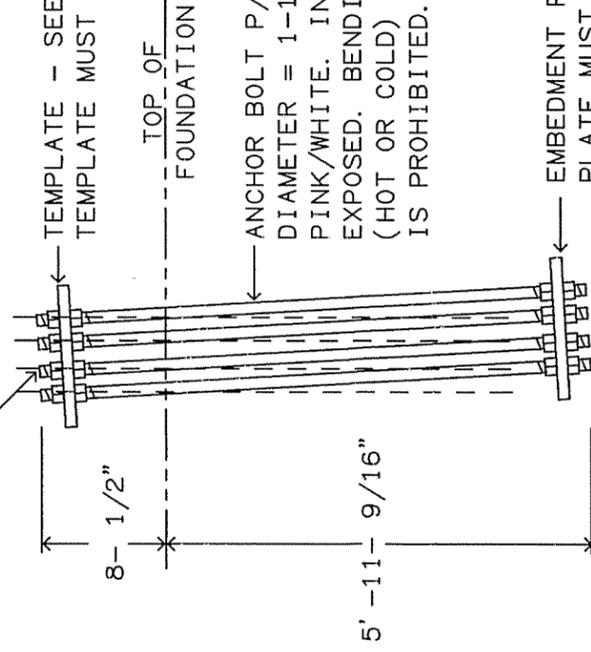
SEE PAGE 12 FOR BASE SECTION INSTALLATION DETAIL.



TOWER ANCHOR STEEL PLACEMENT - TOP VIEW

REFERENCE ANGLE = 3.30 DEGREES. TEMPLATE MUST BE UTILIZED TO ASSIST IN PROPER PLACEMENT.

TEMPLATE - SEE ABOVE FOR PART NUMBER AND ASSEMBLY DRAWING DATA. TEMPLATE MUST BE SECURED WITH 2 NUTS AS SHOWN.



VIEW A - A - ANCHOR BOLT INSTALLATION DETAIL (NOT TO SCALE)

ATTENTION CONTRACTOR INSTALLING THE ANCHOR BOLTS!

1-1/4" DIAMETER ANCHOR BOLTS FOR TAPERED TOWER.

VERIFY THE PART NUMBERS AND SIZES FOR ALL COMPONENTS ON THIS PAGE AND PAGE 12.

IF THERE ARE ANY DISCREPANCIES, PLEASE NOTIFY PIROD, INC.; PRIOR TO INSTALLATION!



William R. Heiden III, KY Professional Engineer # 22430

VERIZON WIRELESS  
TICK RIDGE HTGN043, KY  
U-30.0 X 300'

KENTUCKY C. O. A. 1542		APPROVED/ENG. WRH 10/22/2007	
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DRAWN BY M.S.		DRAWING NO. 214621	
ENG. FILE NO. A-123177-		PAGE 11 OF 12	
ARCHIVE F-1010764			

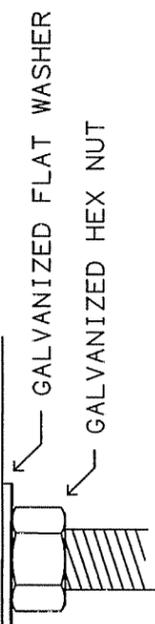


VALMONT STRUCTURES IS A DIVISION OF VALMONT INDUSTRIES, INC. ENGINEERING PROVIDED BY PIROD, INC., WHOLLY OWNED BY VALMONT INDUSTRIES, INC.  
From: F1010764.DFT - 10/19/2007 16:39  
Printed from 214621\_11@A.DWG - 10/19/2007 16:42 @ 10/22/2007 11:53

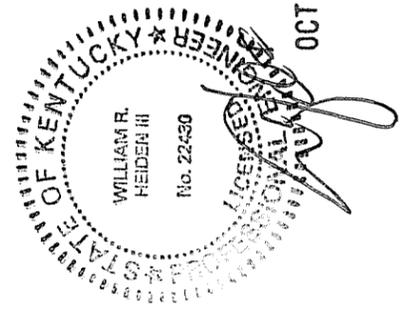
ANCHOR BOLT - BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.



BASE SECTION FOOTPAD  
 PACK NON-SHRINK STRUCTURAL GROUT UNDER  
 FOOTPADS AFTER LEVELING TOWER.



BASE SECTION INSTALLATION DETAIL



William R. Heiden III, KY Professional Engineer # 22430

VERIZON WIRELESS  
 TICK RIDGE HTGN043, KY  
 U-30.0 X 300'

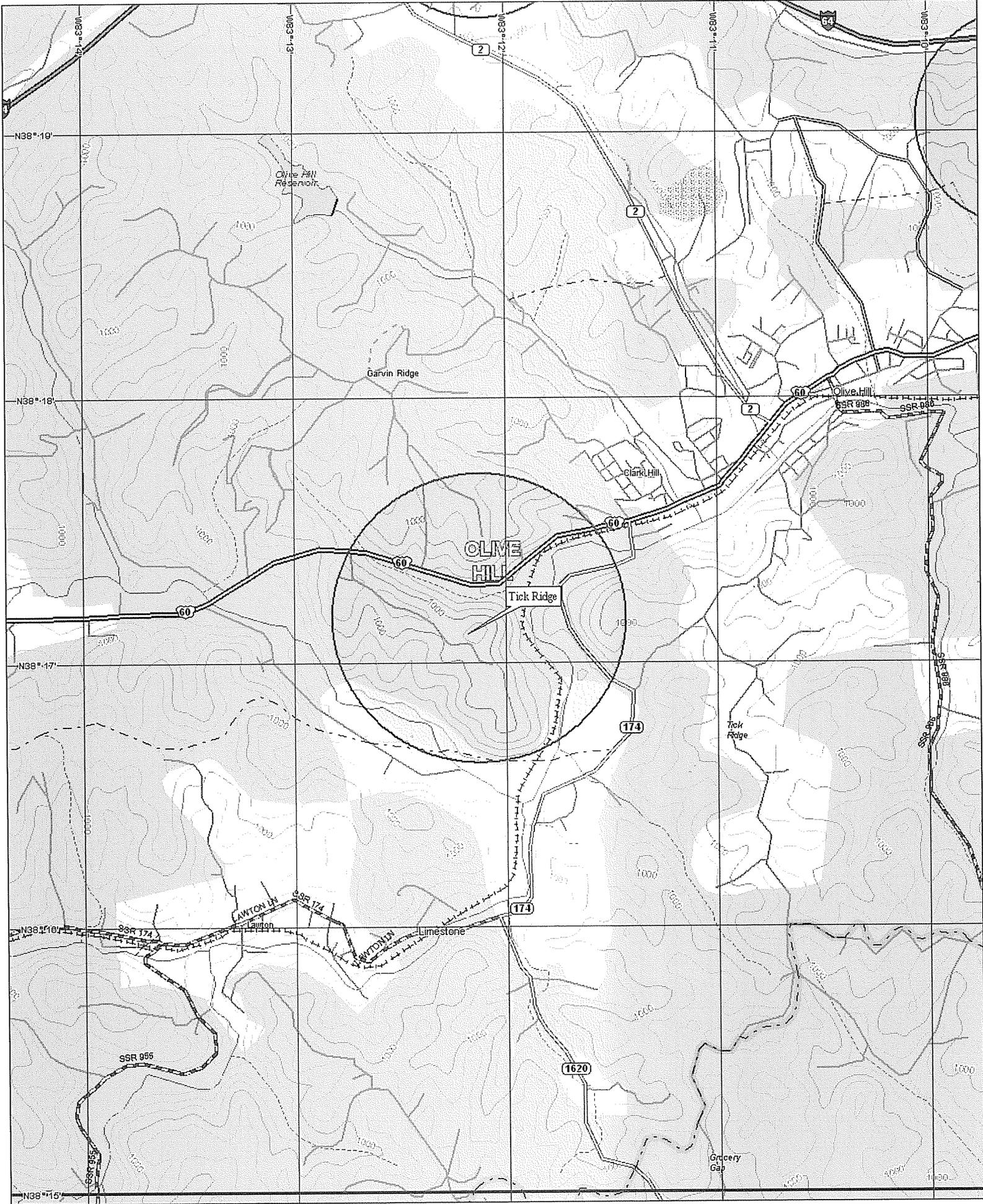
A		ADDED FOUNDATIONS	MS	10/19/2007	KENTUCKY C. O. A. 1542
REV	DESCRIPTION OF REVISIONS		INI	DATE	APPROVED/ENG. WRH 10/22/2007
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ENG. FILE NO.		A-123177-	ARCHIVE		F-1010764
PAGE		12		OF 12	



**EXHIBIT D**  
**COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST**  
**AND MAP OF LIKE FACILITIES IN VICINITY**



**EXHIBIT E**  
**COPY OF RADIO FREQUENCY DESIGN SEARCH AREA**



**EXHIBIT F**  
**FAA DETERMINATION OF NO HAZARD**



Federal Aviation Administration  
 Air Traffic Airspace Branch, ASW-520  
 2601 Meacham Blvd.  
 Fort Worth, TX 76137-0520

Aeronautical Study No.  
 2007-ASO-4499-OE

Issued Date: 09/07/2007

Gail Crider  
 Cellco Partnership (GC)  
 1120 Sanctuary Pkwy, #150  
 Alpharetta, GA 30004

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

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

Structure:	Antenna Tower Tick Ridge
Location:	Olive Hill, KY
Latitude:	38-17-3.49 N NAD 83
Longitude:	83-12-15.84 W
Heights:	325 feet above ground level (AGL) 1354 feet above mean sea level (AMSL)

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

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

It is required that the enclosed FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

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

This determination expires on 03/07/2009 unless:

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

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

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

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

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

If we can be of further assistance, please contact our office at (817) 838-1994. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2007-ASO-4499-OE.

**Signature Control No: 533681-100620861**

(DNE)

Linda Steele  
Technician

Attachment(s)  
Frequency Data

7460-2 Attached

**Frequency Data for ASN 2007-ASO-4499-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

**EXHIBIT G**  
**KENTUCKY AIRPORT ZONING COMMISSION**  
**APPROVAL**



Kentucky Airport Zoning Commission  
200 Mero Street  
Frankfort, KY 40622

TICK RIDGE  
(502) 564-4480  
fax: (502) 564-7953  
No.: AS-022-212-07-191

November 13, 2007

APPROVAL OF APPLICATION

APPLICANT:

Cellco Partnership  
Gail Crider, MTS-VZW Network Compliance  
1120 Sanctuary Pkwy  
Suite 150  
ALPHARETTA, GA 30004

SUBJECT: AS-022-212-07-191

STRUCTURE: Antenna Tower  
LOCATION: Olive Hill, KY  
COORDINATES: 38-17-03.49 N / 83-12-15.84 W  
HEIGHT: 325'AGL/1354'AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 325'AGL/1354'AMSL Antenna Tower near Olive Hill, KY 38-17-03.49 N / 83-12-15.84 W.

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

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

Dual obstruction lighting is required in accordance with 602 KAR 50:100.

A handwritten signature in black ink, appearing to read "John Houlihan".

John Houlihan, Administrator



Kentucky Airport Zoning Commission
200 Mero Street
Frankfort, KY 40622

(502) 564-4480
fax: (502) 564-7953
No.: AS-022-212-07-191

CONSTRUCTION/ALTERATION STATUS REPORT

November 13, 2007

AERONAUTICAL STUDY NUMBER: AS-022-212-07-191

Cellco Partnership
Gail Crider, MTS-VZW Network Compliance
1120 Sanctuary Pkwy
Suite 150
ALPHARETTA, GA 30004

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on November 8, 2007. This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within the said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit. When appropriate, please indicate the status of the project in the place below and return this letter to John Houlihan, Administrator, Kentucky Airport Zoning Commission, 200 Mero Street, Frankfort, KY 40622. (502) 564-4480.

STRUCTURE: Antenna Tower
LOCATION: Olive Hill, KY
COORDINATES: 38-17-03.49 N / 83-12-15.84 W
HEIGHT: 325'AGL/1354'AMSL

CONSTRUCTION/ALTERATION STATUS

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

2. Construction status is as follows:
Structure reached its greatest height of \_\_\_\_\_ ft. AGL
\_\_\_\_\_ ft. AMSL on \_\_\_\_\_ (date).

Date construction was completed. \_\_\_\_\_

Type of obstruction marking/painting. \_\_\_\_\_

Type of obstruction lighting. \_\_\_\_\_

As built coordinates. \_\_\_\_\_

Miscellaneous Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE/TITLE \_\_\_\_\_



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

Kentucky Aeronautical Study Number

**APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE**

INSTRUCTIONS INCLUDED

AS-027-232-07-191

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

Cellco Partnership (Tick Ridge site)  
1120 Sanctuary Pkwy. #150, MC: GASA5REG  
Alpharetta GA 30004  
770-797-1070 voice; 770-797-1034 fax  
Network Regulatory@VerizonWireless.com

9. Latitude: 38 ° 17 ' 03 " 49 "

10. Longitude: 083 ° 12 ' 15 " 84 "

11. Datum:  NAD83  NAD27  Other \_\_\_\_\_

12. Nearest Kentucky City: Olive Hill County Carter

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

Gail Crider, MTS - VZW Network Compliance  
1120 Sanctuary Pkwy. #150, MC: GASA5REG  
Alpharetta GA 30004  
70-797-1063 voice; 770-797-1036 fax  
gail.crider@verizonwireless.com

13. Nearest Kentucky public use or Military airport:  
Olive Hill-Sellers' Field

14. Distance from #13 to Structure: 3.4329 nm

15. Direction from #13 to Structure: 122.42°

16. Site Elevation (AMSL): 1,029.00 Feet

17. Total Structure Height (AGL): 325.00 Feet

18. Overall Height (#16 + #17) (AMSL): 1,354.00 Feet

3. Application for:  New Construction  Alteration  Existing

4. Duration:  Permanent  Temporary (Months \_\_\_\_\_ Days \_\_\_\_\_)

5. Work Schedule: Start \_\_\_\_\_ End \_\_\_\_\_

6. Type:  Antenna Tower  Crane  Building  Power Line

Landfill  Water Tank  Other \_\_\_\_\_

19. Previous FAA and/or Kentucky Aeronautical Study Number(s):  
\_\_\_\_\_

7. Marking/Painting and/or Lighting Preferred:

Red Lights and Paint  Dual - Red & Medium Intensity White

White - Medium Intensity  Dual - Red & High Intensity White

White - High Intensity  Other \_\_\_\_\_

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

614 Flannery Cemetery Rd , Olive Hill-KY  
(pls. see attachment)

8. FAA Aeronautical Study Number 2007-ASO-4499-OE

21. Description of Proposal:

New tower with antennas

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration?

No  Yes, When August 20, 2007

CERTIFICATION: I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge and belief.

Gail Crider, MTS - Network Compliance

Printed Name and Title

Signature

8-22-07

Date

PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 183.861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050:Series) are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Non-compliance with Federal Aviation Administration Regulations may result in further penalties.

Commission Action:

Chairman, KAZC

Administrator, KAZC

Approved

Disapproved

Date

11-15-07

**EXHIBIT H  
GEOTECHNICAL REPORT**