

(M C B R A Y E R)
McBrayer, McGinnis, Leslie & Kirkland, PLLC

ATTORNEYS AT LAW

W. BRENT RICE
BRICE@MMLK.COM

201 EAST MAIN STREET, SUITE 1000
LEXINGTON, KENTUCKY 40507
(859) 231-8780 EXT. 115
FAX: (859) 231-6518

September 1, 2011

Ms. Linda Faulkner
Division of Filings
Public Service Commission
211 Sower Blvd.
Frankfort, KY 40602-0615

RECEIVED
SEP 01 2011
PUBLIC SERVICE
COMMISSION

RE: **Application of Global Tower Assets, LLC and New Cingular Wireless PCS, LLC, for Issuance of a Certificate of Public Convenience and Necessity to Construct a wireless communications Facility at 5730 Rockwood Drive, Catlettsburg, Boyd County, Kentucky ("Application") PSC Case No. 2011-00354 Hurricane Road (KY-5006)**

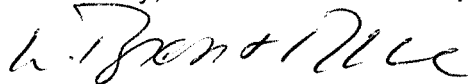
Dear Ms. Faulkner:

Please be advised that the undersigned represents Global Tower Assets, LLC and New Cingular Wireless PCS, LLC in regard to the above-referenced Application which I am filing on their behalf today with the Commission.

Enclosed please find one original and ten (10) copies of the Application along with one (1) set of project description drawings, which has been signed and sealed by a licensed professional engineer in Kentucky.

Any comments or questions in regard to the application should be forwarded to the undersigned. Thank you for your assistance in this matter.

Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC and
New Cingular Wireless PCS, LLC

WBR/dkw
Enclosures

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

APPLICATION OF GLOBAL TOWER ASSETS,LLC)
AND NEW CINGULAR WIRELESS PCS, LLC FOR)
ISSUANCE OF CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY AT)
5730 ROCKWOOD DRIVE, CATLETTSBURG, BOYD)
COUNTY, KENTUCKY)

(SITE NAME: HURRICANE ROAD, (KY-5006)

ORIGINAL

Case No. 2011-00354

RECEIVED

SEP 01 2011

PUBLIC SERVICE
COMMISSION

APPLICATION

Global Tower Assets, LLC, a Delaware limited liability company and New Cingular Wireless PCS, LLC d/b/a AT&T Mobility, a Delaware limited liability company, hereinafter collectively referred to as "Applicants," by counsel, apply for a Certificate of Public Convenience and Necessity to construct and operate a wireless communications facility ("WCF") to serve the customers of New Cingular Wireless PCS, LLC with wireless communication services in the Commonwealth of Kentucky. In support of this Application, Applicants respectfully state that:

1. The complete name and address of Global Tower Assets, LLC is: 750 Park of Commerce Blvd., Ste. 300, Boca Raton, Florida 33487-3612. Upon completion of construction of the WCF, it will be the owner.

2. The complete name and address of New Cingular Wireless PCS, LLC, a Delaware limited liability company, is 601 West Chesnut Street, Louisville, Kentucky 40203. New Cingular Wireless PCS, LLC d/b/a AT&T Mobility is a licensed public utility.

Copies of its Delaware Certificate of Formation and Certificate of Amendment are attached as **Exhibit A**. A copy of the Certificate of Authorization to transact business in the Commonwealth of Kentucky is also included as part of **Exhibit A**.

3. The Applicants propose to construct a WCF in Boyd County, Kentucky. The WCF will be comprised of a 195' monopole (the "tower"), including attached antennas and an equipment shelter. The equipment shelter will contain the transmitters and receivers required to connect the WCF with wireless telephone users, which will link the WCF with the New Cingular Wireless PCS, LLC network. The WCF will be fenced with a secured access gate. Two sets of project drawings are being submitted with this Application. A detailed description of the manner in which the WCF will be constructed is included in the drawings and on the Survey (scale: 1" = 200'). A reduced copy of the Survey is attached as **Exhibit B**. The Survey is signed and sealed by Frank L. Sellinger, II, a professional registered surveyor in Kentucky and it depicts the proposed location of the tower and all easements and existing structures on the property on which the tower will be located. A vertical tower profile and its foundation, each signed and sealed by a professional engineer registered in Kentucky are attached as **Exhibit C**. The tower design plans include a description of the standard according to which the tower was designed.

4. A geotechnical investigation report performed by Engineering Professionals, Inc. dated August 15, 2011 is attached as **Exhibit D**. The geotechnical investigation report is signed and sealed by Peter J. Jernigan, Jr., a professional engineer registered in Kentucky. The geotechnical investigation report includes boring logs, foundation design recommendations, and a finding as the proximity of the

proposed site to flood hazard areas.

5. As noted on the Survey attached as a part of **Exhibit B**, the surveyor has determined that the site is not within any FIA flood hazard area.

6. The possibility of a strong ground shaking has been considered in the design of this tower. Formulas are given in codes for earthquake loading. The formulas are for lateral loads, and they take into account the seismic zone, ground motion and structure. The two most important components of the structure are its weight and shape. Applying all of the factors to the formula, the resultant earthquake load is less than the design wind load. Seismic loading has been considered in the design of this tower, although it is regarded as secondary to the wind loading.

7. Similarly, the possibility of a strong wind has been considered in the design of this tower. It 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. This tower has been designed in accordance with the Electronic Industries Association ("ETA") Standard RS-222E, which has been accepted and approved by ANSI and is a nationally recognized tower design standard.

8. Personnel directly responsible for the design and construction of the proposed tower are qualified and experienced. The tower foundation and design was performed by Sabre Industries under the supervision of Amy R. Herbst, P.E., a registered professional engineer in the Commonwealth of Kentucky. Her specialty is tower design which includes sub-surface exploration and foundation design. The Applicants use qualified installation crews and site inspectors for construction of their towers.

9. The public convenience and necessity require the construction of this WCF. The WCF is essential to improve service to Applicants' current customers in that transmission and reception "weak spots" within the area to be covered by the WCF will be substantially reduced. The WCF will also increase the system's capacity to meet the increasing demands for wireless service in Kentucky. A statement from Applicants' RF Design Engineer describing the need for the WCF is attached as **Exhibit E**.

The process that was used in selecting the site for the proposed WCF by the Applicants' radio frequency engineers was consistent with the process used for selecting generally all other existing cell facilities within the licensed area. The engineers used computer programs to locate cell sites that will enable the cell facilities to serve the Federal Communications Commission certificated territory without extending beyond its approved boundary and to meet other mandates of the Commission. The engineers select the optimum site in terms of elevation and location to provide the best quality service to customers in the service area. A map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the necessary search area within which a site should be located as determined by the Applicants' Radio Frequency Engineers is attached as **Exhibit F**.

It is imperative that the proposed WCF be constructed to allow New Cingular Wireless PCS, LLC to meet the increasing demands for wireless communication service in the licensed area.

10. The WCF will serve an area totally within Applicants' current service area in the licensed area.

11. Since the proposed WCF will serve only the licensed area, no further

approvals by the Federal Communications Commission ("FCC") are required. See 47 C.F.R. §24.11(b), "[b]lanket licenses are granted for each market and frequency block. Applications for individual sites are not required and will not be accepted."

12. The Federal Aviation Administration determination that the proposed tower height (agl) of 199' does not exceed notice criteria is attached as **Exhibit G**. The Kentucky Airport Zoning Commission determination that the WCF does not require a permit, dated June 15, 2011 is attached as **Exhibit H**.

13. The proposed location of the tower is an area which is outside the jurisdiction of a planning commission, and therefore, Applicants submit the Application to the Public Service Commission for a CPCN pursuant to KRS § 278.020(1), 278.650, and 278.665. The Applicants have notified the Boyd County Judge Executive, by certified mail, return receipt requested, of the proposed construction. The Applicants included in the notice the Commission docket number under which the Application will be processed and informed said person of his right to request intervention. A copy of the notice is attached as **Exhibit I**.

14. The WCF will be located at 5730 Rockwood Drive, Catlettsburg, Boyd County, Kentucky. Pursuant to 807 KAR 5:063 Kentucky appropriate notices 2' X 4' with the word "TOWER" in letters at least four inches high, have been posted in a visible location on the proposed site and on the nearest public road and shall remain posted for at least two (2) weeks after the Application is filed. The location of the proposed facility has been published in a newspaper of general circulation in Boyd County, Kentucky. The WCF's coordinates are: Latitude: 38° 26' 3.46"; Longitude: 82° 37' 48.12".

15. Clear directions to the proposed site from Lexington are:

Take US-23 north. Turn left onto State Route 168. Turn left onto Rockwood Road. Access to the site is on the left.

The telephone number for the person preparing the directions is 678-280-2325 and the individual's name is Matt Chastain. The Survey identifies every structure within 500' of the proposed tower, and all easements and existing structures within 200' of the access drive, including the intersection with the Public Street System, drawn to a scale no less than one (1) inch equals 200'.

16. Applicants have notified every person who is contiguous or within 500' of the proposed tower by certified mail, return receipt requested, of the proposed construction. Applicants included in said notice the Commission docket number under which the Application will be processed and informed each person of his or her right to request intervention. A list of the property owners and copies of the certified letters sent to the referenced property owners are attached as **Exhibit J**. Copies of the return receipts will be filed with the Commission when received.

17. The site for the proposed facility is located outside the incorporated limits of the City of Catlettsburg and is not zoned. The current use of the property is agricultural.

18. Applicants have considered the likely effects of the installation on nearby land uses and values and have concluded that there is no more suitable location reasonably available from which adequate service can be provided. Applicants attempted to collocate on existing towers or structures, however, there are no such existing towers or structures in the vicinity of the proposed site.

19. The site for the WCF is to be leased from Vernon and Constance Saunders, 5730 Rockwood Drive, Catlettsburg, KY 41129. A copy of the Land Lease

Agreement is attached as **Exhibit K**.

20. The names of all public utilities, corporations, or persons with whom the proposed new construction is likely to compete is Verizon Wireless, Sprint Nextel and T-Mobile.

21. Correspondence with regard to this Application should be directed to: W. Brent Rice, Esq., McBrayer, McGinnis, Leslie & Kirkland, PLLC, 201 East Main Street, Suite 1000, Lexington, Kentucky 40507.

WHEREFORE, Applicant requests that the Commission, pursuant to KRS 278.020, grant a Certificate of Public Convenience and Necessity to Applicant for construction and operation of the proposed WCF and providing for such other relief as is necessary and appropriate.

Respectfully submitted,



W. Brent Rice
McBRAYER, MCGINNIS, LESLIE &
KIRKLAND, PLLC
201 East Main Street, Suite 1000
Lexington, KY 40507
Phone: 859/231-8780
COUNSEL FOR GLOBAL TOWER ASSETS,
AND NEW CINGULAR WIRELESS PCS, LLC

LIST OF EXHIBITS

- Exhibit A Applicant Adoption Notices
- Exhibit B Site Plan and Survey
- Exhibit C Tower and Foundation Profile
- Exhibit D Report of Geotechnical Exploration
- Exhibit E RF Engineer Statement
- Exhibit F Search Area Map
- Exhibit G FAA Determination
- Exhibit H KAZC Determination
- Exhibit I Correspondence to County Judge Executive
- Exhibit J Notice to Adjoining Property Owners
- Exhibit K Land Lease Agreement

Commonwealth of Kentucky
Trey Grayson, Secretary of State

Trey Grayson
Secretary of State
P. O. Box 718
Frankfort, KY 40602-0718
(502) 564-3490
<http://www.sos.ky.gov>

Certificate of Authorization

Authentication number: 104309
Visit <http://apps.sos.ky.gov/business/obdb/certvalidate.aspx> to authenticate this certificate.

I, Trey Grayson, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

NEW CINGULAR WIRELESS PCS, LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on October 14, 1999.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 275.190 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 30th day of September, 2010, in the 219th year of the Commonwealth.



TG
Trey Grayson
Secretary of State
Commonwealth of Kentucky
104309/0481848

Delaware

PAGE 1

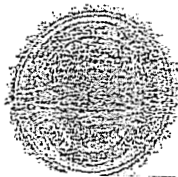
The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "AT&T WIRELESS PCS, LLC", CHANGING ITS NAME FROM "AT&T WIRELESS PCS, LLC" TO "NEW CINGULAR WIRELESS PCS, LLC", FILED IN THIS OFFICE ON THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 11:07 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF AMENDMENT IS THE TWENTY-SIXTH DAY OF OCTOBER, A.D. 2004, AT 7:30 O'CLOCK P.M.

2445544 8100

040770586



Harriet Smith Windsor
Harriet Smith Windsor, Secretary

AUTHENTICATION: 3434823

DATE: 10 26 04

State of Delaware
Secretary of State
Division of Corporations
Delivered 11:20 AM 10/26/2004
FILED 11:07 AM 10/26/2004
SRV 040770586 - 2445544 FILE

CERTIFICATE OF AMENDMENT
TO THE CERTIFICATE OF FORMATION
OF
AT&T WIRELESS PCS, LLC

1. The name of the limited liability company is AT&T Wireless PCS, LLC (the "Company").
2. The Certificate of Formation of the Company is amended by deleting the first paragraph in its entirety and replacing it with a new first paragraph to read as follows:

"FIRST: The name of the limited liability company is New Cingular Wireless PCS, LLC."
3. The Certificate of Amendment shall be effective at 7:30 p.m. EDT on October 26, 2004.

[Signature on following page]

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 04:30 PM 09/07/1999
991273168 - 2445544

AT&T LEGAL

003

STATE OF DELAWARE
CERTIFICATE OF FORMATION OF
AT&T WIRELESS PCS, LLC

The undersigned authorized person hereby executes the following Certificate of Formation for the purpose of forming a limited liability company under the Delaware Limited Liability Company Act.

FIRST: The name of the limited liability company is AT&T Wireless PCS, LLC.

SECOND: The address of its registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801. The name of its registered agent at such address is The Corporation Trust Company.

DATED this 7 day of September, 1999.

AT&T WIRELESS SERVICES, INC.,
As Authorized Person



Mark U. Thomas, Vice President

SHEET 1	
	- VICINITY AND 500' STRUCTURAL MAP
	- ABUTTING PROPERTY OWNERS
	- U.S.G.S. QUAD MAP
SHEET 2	
	- LEGAL DESCRIPTIONS
SHEET 3	
	- PROPOSED ACCESS & UTILITY EASEMENT
	- FLOOD ZONE DATA
SHEET 4	
	- PROPOSED LEASE AREA
	- PROPOSED ACCESS & UTILITY EASEMENT
	- FLOOD ZONE DATA



LEGAL DESCRIPTIONS:

This is a description for Global Tower Partners, of an area to be leased from the property of Vernon R. and Constance E. Saunders of record in deed book 649, page 283, which is further described as follows:

PROPOSED LEASE AREA

Beginning at a found 6"x6" concrete monument in the southwestern most corner of the Vernon R. and Constance E. Saunders parcel of record in deed book 649, page 283, said point being a common corner to Edward T. and Esther Rearden of record in deed book 469, page 989 and being in the line of Eastern Kentucky Lumber and Development Company of record in deed book 174, page 119; thence with the line of Eastern Kentucky Lumber and Development Company, S89°08'07"W 892.93' to a corner point of Lewis R. Dillon, Jr. and Connie Sue Dillon of record in deed book 670, page 331; thence with the line of Dillon, N23°07'26"E 102.89' to a corner point to Timothy J. and Daisey K. Kemper of record in deed book 687, page 779; thence with the line of Kemper the following calls; N79°29'34"W 50.00', N18°52'40"E 248.76' to a found 1/2" rebar with a yellow cap stamped "K. Barker P.L.S. 2630," N18°52'40"E 248.76' and S79°29'34"E 450.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N18°42'22"E 114.06' to a corner point of Stanley E. and Geneva Stark of record in deed book 515, page 410; thence leaving said right-of-way and with the line of Stark the following calls; N72°51'27"W 200.00', N17°08'33"E 100.00' and S72°51'27"E 200.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N17°08'33"E 14.43' to the right-of-way intersection of State Route 168 and Rockwood Drive; thence with the right-of-way line of Rockwood Drive the following calls; N33°34'56"W 47.99', N11°32'56"W 84.41', N10°25'32"W 56.87', N22°19'57"W 38.29', N36°30'43"W 31.98', N54°42'35"W 23.03', N75°54'20"W 13.27', S78°37'15"W 82.75', S69°13'18"W 44.80', S73°38'57"W 89.93', S80°35'35"W 56.14', N87°27'00"W 70.66', N77°01'23"W 68.72', N74°00'52"W 94.06', N75°45'33"W 141.55' and N77°29'27"W 100.68'; thence leaving said right-of-way line, S23°44'49"W 87.31'; thence with the chord of a curve to the left having a radius of 50.00', S34°49'06"E 85.32'; thence N86°36'58"E 70.90', S78°22'55"E 81.65'; thence with the chord of a curve to the right having a radius of 50.00', S58°33'52"E 33.90'; thence S38°44'49"E 78.15', S58°21'55"E 52.12'; thence with the chord of a curve to the left having a radius of 50.00', S83°54'04"E 43.11'; thence N70°33'47"E 262.04'; thence with the chord of a curve to the right having a radius of 17.50', S35°29'47"E 33.63'; thence S38°26'40"W 242.11'; thence with the chord of a curve to the right having a radius of 50.00', S47°09'19"W 15.14'; thence S55°51'57"W 28.66'; N79°29'34"W 85.06', S18°52'40"W 99.34' and S55°51'57"W 98.90'; thence with the chord of a curve to the right having a radius of 50.00', S69°26'34"W 23.47'; thence S83°01'10"W 76.55' and S06°58'50"E 10.00' to a set #5 rebar in the northwest corner of the proposed lease area, said point being the true Point of Beginning; thence N83°01'10"E 80.00' to a set #5 rebar; thence S06°58'50"E 80.00' to a set #5 rebar; thence S83°01'10"W 80.00' to a set #5 rebar and N06°58'50"W 80.00' to the Point of Beginning containing 6,400.00 square feet per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated May 31, 2011.

POWER POLE
UTILITY COMPANY: UNKNOWN
IDENTIFICATION #: N/A

PROJECT BENCHMARK
NORTH: 4060732.090
EAST: 5814739.357
ELEVATION: 758.59'
LOCATION: BEING A SET IPC STAMPED "FSTAN #3282" AT THE SOUTHWEST CORNER OF THE LEASE AREA.

SURVEYORS NOTES
SOURCE OF BEARING IS A G.P.S. OBSERVATION ON MAY 31, 2011.
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.

COORDINATE POINT LOCATION
NAD 1983
LATITUDE: 38°26'03.46"
LONGITUDE: 82°37'48.12"
NAVD 1988
ELEVATION: 754' AMSL
STATE PLANE COORDINATE SINGLE ZONE
(BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 4060776.655
EASTING: 5814774.190

CENTERLINE OF PROPOSED 20' ACCESS EASEMENT

Beginning at a found 6"x6" concrete monument in the southwestern most corner of the Vernon R. and Constance E. Saunders parcel of record in deed book 649, page 283, said point being a common corner to Edward T. and Esther Rearden of record in deed book 469, page 989 and being in the line of Eastern Kentucky Lumber and Development Company of record in deed book 174, page 119; thence with the line of Eastern Kentucky Lumber and Development Company, S89°08'07"W 892.93' to a corner point of Lewis R. Dillon, Jr. and Connie Sue Dillon of record in deed book 670, page 331; thence with the line of Dillon, N23°07'26"E 102.89' to a corner point to Timothy J. and Daisey K. Kemper of record in deed book 687, page 779; thence with the line of Kemper the following calls; N79°29'34"W 50.00', N18°52'40"E 248.76' to a found 1/2" rebar with a yellow cap stamped "K. Barker P.L.S. 2630," N18°52'40"E 248.76' and S79°29'34"E 450.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N18°42'22"E 114.06' to a corner point of Stanley E. and Geneva Stark of record in deed book 515, page 410; thence leaving said right-of-way and with the line of Stark the following calls; N72°51'27"W 200.00', N17°08'33"E 100.00' and S72°51'27"E 200.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N17°08'33"E 14.43' to the right-of-way intersection of State Route 168 and Rockwood Drive; thence with the right-of-way line of Rockwood Drive the following calls; N33°34'56"W 47.99', N11°32'56"W 84.41', N10°25'32"W 56.87', N22°19'57"W 38.29', N36°30'43"W 31.98', N54°42'35"W 23.03', N75°54'20"W 13.27', S78°37'15"W 82.75', S69°13'18"W 44.80', S73°38'57"W 89.93', S80°35'35"W 56.14', N87°27'00"W 70.66', N77°01'23"W 68.72', N74°00'52"W 94.06', N75°45'33"W 141.55' and N77°29'27"W 100.68' to the true Point of Beginning of the proposed 20' Access Easement; thence with the centerline of said easement, S23°44'49"W 87.31'; thence with the chord of a curve to the left having a radius of 50.00', S34°49'06"E 85.32'; thence N86°36'58"E 70.90', S78°22'55"E 81.65'; thence with the chord of a curve to the right having a radius of 50.00', S58°33'52"E 33.90'; thence S38°44'49"E 78.15', S58°21'55"E 52.12'; thence with the chord of a curve to the left having a radius of 50.00', S84°26'57"E 43.97'; thence N69°28'01"E 260.71'; thence with the chord of a curve to the right having a radius of 22.50', S35°27'12"E 43.48'; thence S39°37'34"W 242.72'; thence with the chord of a curve to the right having a radius of 50.00', S47°44'46"W 14.12'; thence S55°51'57"W 28.66'; thence N79°29'34"W 85.06'; thence S18°52'40"W 99.34'; thence S55°51'57"W 98.90'; thence with the chord of a curve to the right having a radius of 50.00', S69°26'34"W 23.47'; thence S83°01'10"W 76.55' and S06°58'50"E 18.52' to the true Point of Beginning of the proposed 15' Utility Easement; thence with the centerline of said easement, S54°41'22"W 111.67', S51°19'39"W 229.10', S73°57'14"W 126.33' and N79°24'07"W 251.61' to the end of said easement per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated May 31, 2011.

CENTERLINE OF PROPOSED 15' UTILITY EASEMENT

Beginning at a found 6"x6" concrete monument in the southwestern most corner of the Vernon R. and Constance E. Saunders parcel of record in deed book 649, page 283, said point being a common corner to Edward T. and Esther Rearden of record in deed book 469, page 989 and being in the line of Eastern Kentucky Lumber and Development Company of record in deed book 174, page 119; thence with the line of Eastern Kentucky Lumber and Development Company, S89°08'07"W 892.93' to a corner point of Lewis R. Dillon, Jr. and Connie Sue Dillon of record in deed book 670, page 331; thence with the line of Dillon, N23°07'26"E 102.89' to a corner point to Timothy J. and Daisey K. Kemper of record in deed book 687, page 779; thence with the line of Kemper the following calls; N79°29'34"W 50.00', N18°52'40"E 248.76' to a found 1/2" rebar with a yellow cap stamped "K. Barker P.L.S. 2630," N18°52'40"E 248.76' and S79°29'34"E 450.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N18°42'22"E 114.06' to a corner point of Stanley E. and Geneva Stark of record in deed book 515, page 410; thence leaving said right-of-way and with the line of Stark the following calls; N72°51'27"W 200.00', N17°08'33"E 100.00' and S72°51'27"E 200.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N17°08'33"E 14.43' to the right-of-way intersection of State Route 168 and Rockwood Drive; thence with the right-of-way line of Rockwood Drive the following calls; N33°34'56"W 47.99', N11°32'56"W 84.41', N10°25'32"W 56.87', N22°19'57"W 38.29', N36°30'43"W 31.98', N54°42'35"W 23.03', N75°54'20"W 13.27', S78°37'15"W 82.75', S69°13'18"W 44.80', S73°38'57"W 89.93', S80°35'35"W 56.14', N87°27'00"W 70.66', N77°01'23"W 68.72', N74°00'52"W 94.06', N75°45'33"W 141.55' and N77°29'27"W 100.68'; thence leaving said right-of-way line, S23°44'49"W 87.31'; thence with the chord of a curve to the left having a radius of 50.00', S34°49'06"E 85.32'; thence N86°36'58"E 70.90', S78°22'55"E 81.65'; thence with the chord of a curve to the right having a radius of 50.00', S58°33'52"E 33.90'; thence S38°44'49"E 78.15', S58°21'55"E 52.12'; thence with the chord of a curve to the left having a radius of 50.00', S83°54'04"E 43.11'; thence N70°33'47"E 262.04'; thence with the chord of a curve to the right having a radius of 17.50', S35°29'47"E 33.63'; thence S38°26'40"W 242.11'; thence with the chord of a curve to the right having a radius of 50.00', S47°09'19"W 15.14'; thence S55°51'57"W 28.66'; N79°29'34"W 85.06', S18°52'40"W 99.34' and S55°51'57"W 98.90'; thence with the chord of a curve to the right having a radius of 50.00', S69°26'34"W 23.47'; thence S83°01'10"W 76.55' and S06°58'50"E 18.52' to the true Point of Beginning of the proposed 15' Utility Easement; thence with the centerline of said easement, S54°41'22"W 111.67', S51°19'39"W 229.10', S73°57'14"W 126.33' and N79°24'07"W 251.61' to the end of said easement per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated May 31, 2011.



LAND SURVEYOR'S CERTIFICATE
TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 15,000
TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.
This survey and plat meets or exceeds the minimum standards of the governing authorities.
This property is subject to any recorded easements or right of ways not shown hereon.
Frank L. Sellinger
Frank L. Sellinger, II Ky. Reg. No. 3282

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

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

"CELLULAR COMMUNICATION TOWER SITE SURVEY"
REFERENCED AS "EXHIBIT B"
OWNER APPROVAL: _____ DATE: _____
A&T APPROVAL: _____ DATE: _____

Formerly F.S. Land & T. Alan Neal Company
Land Surveyors and Consulting Engineers
2540 Ridgeman Court, Suite 102
Louisville, KY 40299
Phone: (502) 635-5868 (502) 635-5111
Fax: (502) 635-5263

SITE NUMBER:	KY-5006	
SITE NAME:	HURRICANE ROAD	
SITE ADDRESS:	5730 ROCKWOOD DRIVE CATLETTSBURG, KY 41129	
PROPOSED LEASE AREA:	AREA = 6,400.00 sq. ft.	
PROPERTY OWNER:	VERNON AND CONSTANCE SAUNDERS 5730 ROCKWOOD DRIVE CATLETTSBURG, KY 41129	
TAX MAP:	39	
PARCEL NUMBER:	10.01	
SOURCE OF TITLE:	DEED BOOK 649, PAGE 283	
DWG BY:	CHKD BY:	DATE:
TMD	FSII	06.02.2011
FSTAN PROJECT NO.:	11-7305	

SHEET 2 OF 4

REVISIONS:

C2

SHEET 1

- VICINITY AND 500' STRUCTURAL MAP
- ABUTTING PROPERTY OWNERS
- U.S.G.S. QUAD MAP

SHEET 2

- LEGAL DESCRIPTIONS

SHEET 3

- PROPOSED ACCESS & UTILITY EASEMENT
- FLOOD ZONE DATA

SHEET 4

- PROPOSED LEASE AREA
- PROPOSED ACCESS & UTILITY EASEMENT
- FLOOD ZONE DATA

COORDINATE POINT LOCATION

NAD 1983
 LATITUDE: 38°26'03.46"
 LONGITUDE: 82°37'48.12"
 NAVD 1988
 ELEVATION: 754' AMSL
 STATE PLANE COORDINATE SINGLE ZONE
 (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
 NORTHING: 4060776.655
 EASTING: 5814774.190

POWER POLE

UTILITY COMPANY: UNKNOWN
 IDENTIFICATION #: N/A

PROJECT BENCHMARK

NORTH: 4060732.090
 EAST: 5814739.357
 ELEVATION: 758.59'
 LOCATION: BEING A SET IPC STAMPED
 "FSTAN #3282" AT THE SOUTHWEST
 CORNER OF THE LEASE AREA.

ABBREVIATIONS

- EP EDGE OF PAVEMENT
- ROW RIGHT OF WAY
- CL CENTERLINE
- PL SUBJECT PROPERTY LINE
- POB POINT OF BEGINNING
- IPC IRON PIN CAPPED

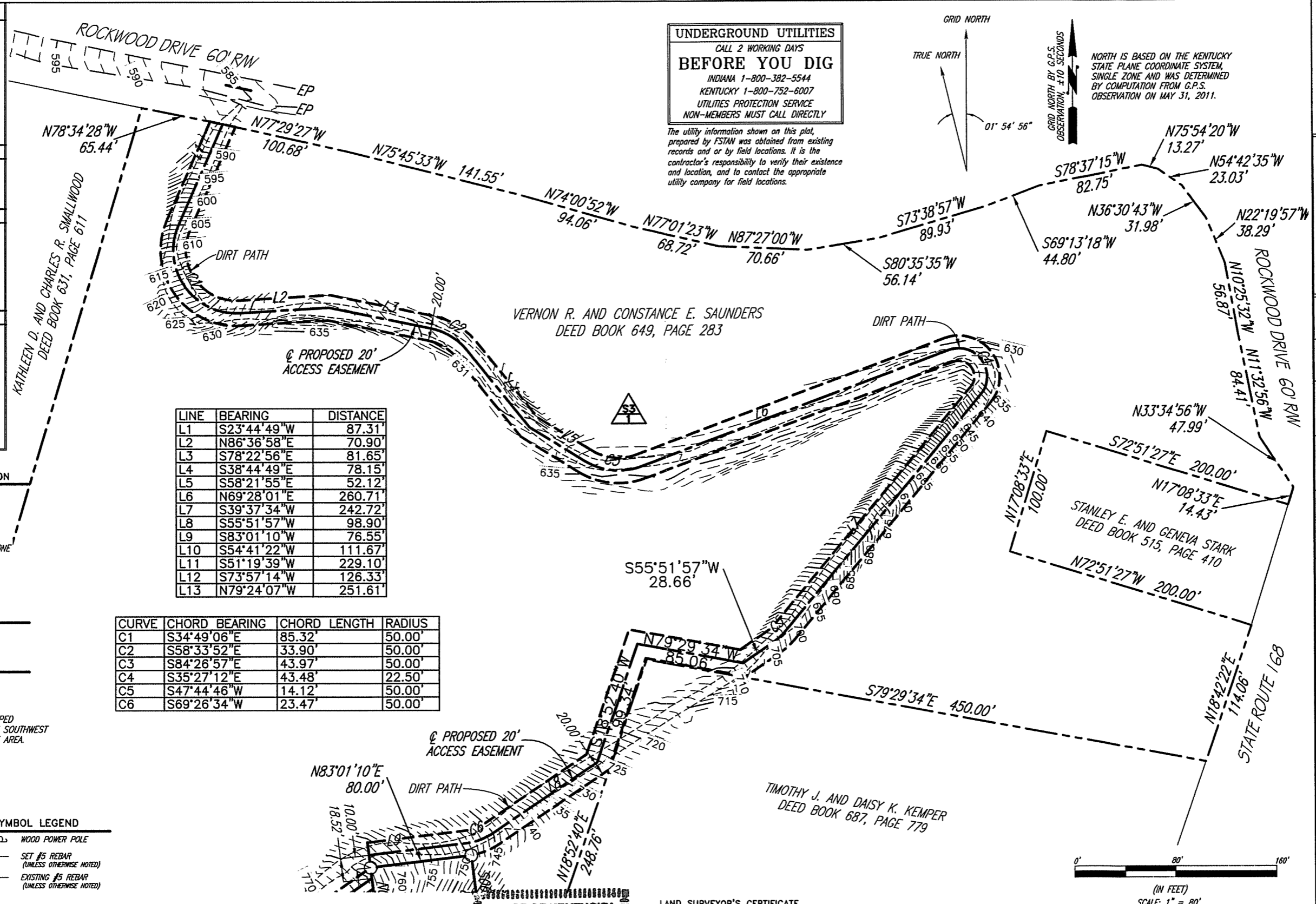
SYMBOL LEGEND

- WOOD POWER POLE
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

LINE LEGEND

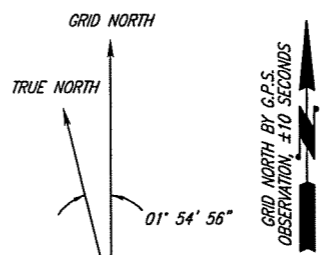
- OVERHEAD ELECTRIC
- EXISTING FENCE
- SUBJECT PROPERTY BOUNDARY
- RIGHT OF WAY CENTERLINE

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

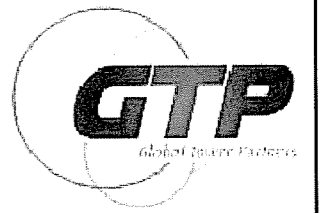


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NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MAY 31, 2011.



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 Land Surveyors and Consulting Engineers
 2540 Ridgeman Court, Suite 102
 Louisville, KY 40299
 Phone: (502) 635-5866 (502) 636-5111
 Fax: (502) 636-5283

SITE NUMBER:
 KY-5006

SITE NAME:
 HURRICANE ROAD

SITE ADDRESS:
 5730 ROCKWOOD DRIVE
 CATLETTSBURG, KY 41129

PROPOSED LEASE AREA:
 AREA = 6,400.00 sq. ft.

PROPERTY OWNER:
 VERNON AND CONSTANCE SAUNDERS
 5730 ROCKWOOD DRIVE
 CATLETTSBURG, KY 41129

TAX MAP:
 39

PARCEL NUMBER:
 10.01

SOURCE OF TITLE:
 DEED BOOK 649, PAGE 283

DWG BY:	CHKD BY:	DATE:
TMD	FSH	06.02.2011

FSTAN PROJECT NO.:
 11-7305

SHEET 3 OF 4

REVISIONS:

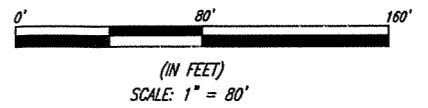
C2.1

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

LAND SURVEYOR'S CERTIFICATE
 TYPE "A" SURVEY: UNADJUSTED TRVERSE CLOSURE BETTER THAN 1 IN 15,000.
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plot 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 plot 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, Jr. 6-2-11
 Ky. Reg. No. 3282

"CELLULAR COMMUNICATION TOWER SITE SURVEY"
 REFERENCED AS "EXHIBIT B"
 OWNER APPROVAL: _____ DATE: _____
 AT&T APPROVAL: _____ DATE: _____

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21019C0070C, DATED 09-16-2004 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.



SURVEYORS NOTES
 SOURCE OF BEARING IS A G.P.S. OBSERVATION ON MAY 31, 2011.
 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.

- SHEET 1
- S1 - VICINITY AND 500' STRUCTURAL MAP
 - S1 - ABUTTING PROPERTY OWNERS
 - S1 - U.S.G.S. QUAD MAP
- SHEET 2
- S2 - LEGAL DESCRIPTIONS
- SHEET 3
- S3 - PROPOSED ACCESS & UTILITY EASEMENT
 - S3 - FLOOD ZONE DATA
- SHEET 4
- S4 - PROPOSED LEASE AREA
 - S4 - PROPOSED ACCESS & UTILITY EASEMENT
 - S4 - FLOOD ZONE DATA

KASSADRA G. KITCHEN
D.B. 719, PG. 311

CHRISTOPHER P. DAILEY
D.B. 662, PG. 690

MICHELLE LANHAM
D.B. 733, PG. 488

VERNON SAUNDERS, JR. & CONSTANCE JANEY
D.B. 532, PG. 90

KATHLEEN D. AND CHARLES R. SMALLWOOD
D.B. 631, PG. 611

UNDERGROUND UTILITIES
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KENTUCKY 1-800-752-6007
UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST CALL DIRECTLY

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LINE	BEARING	DISTANCE
L1	S23°44'49"W	87.31'
L2	N86°36'58"E	70.90'
L3	S78°22'56"E	81.65'
L4	S38°44'49"E	78.15'
L5	S58°21'55"E	52.12'
L6	N69°28'01"E	260.71'
L7	S39°37'34"W	242.72'
L8	S55°51'57"W	98.90'
L9	S83°01'10"W	76.55'
L10	S54°41'22"W	111.67'
L11	S51°19'39"W	229.10'
L12	S73°57'14"W	126.33'
L13	N79°24'07"W	251.61'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS
C1	S34°49'06"E	85.32'	50.00'
C2	S58°33'52"E	33.90'	50.00'
C3	S84°26'57"E	43.97'	50.00'
C4	S35°27'12"E	43.48'	22.50'
C5	S47°44'46"W	14.12'	50.00'
C6	S69°26'34"W	23.47'	50.00'

COORDINATE POINT LOCATION
NAD 1983
LATITUDE: 38°26'03.46"
LONGITUDE: 82°37'48.12"
NAVD 1988
ELEVATION: 754' AMSL
STATE PLANE COORDINATE SINGLE ZONE
(BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 4060776.655
EASTING: 5814774.190

- SYMBOL LEGEND**
- WOOD POWER POLE
 - SET #5 REBAR (UNLESS OTHERWISE NOTED)
 - EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

- LINE LEGEND**
- OVERHEAD ELECTRIC
 - EXISTING FENCE
 - SUBJECT PROPERTY BOUNDARY
 - RIGHT OF WAY CENTERLINE
- NOTE: SYMBOLS, ABBREVIATIONS, OR LIFESTYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE

- ABBREVIATIONS**
- EP EDGE OF PAVEMENT
 - ROW RIGHT OF WAY
 - CL CENTERLINE
 - RL SUBJECT PROPERTY LINE
 - POB POINT OF BEGINNING
 - IPC IRON PIN CAPPED

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

LAND SURVEYOR'S CERTIFICATE

TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 15,000 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief. This survey and plat meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded easements or right of ways not shown hereon.

6-2-11
Frank L. Sellinger, Jr. Ky. Reg. No. 3282

SURVEYORS NOTES

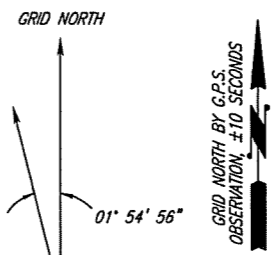
SOURCE OF BEARING IS A G.P.S. OBSERVATION ON MAY 31, 2011.

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

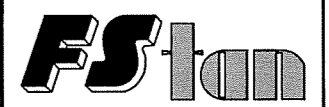
NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.

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Land Surveyors and Consulting Engineers
2540 Ridgeman Court, Suite 102
Louisville, KY 40299
Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER:
KY-5006

SITE NAME:
HURRICANE ROAD

SITE ADDRESS:
5730 ROCKWOOD DRIVE
CATLETTSBURG, KY 41129

PROPOSED LEASE AREA:
AREA = 6,400.00 sq. ft.

PROPERTY OWNER:
VERNON AND CONSTANCE SAUNDERS
5730 ROCKWOOD DRIVE
CATLETTSBURG, KY 41129

TAX MAP:
39

PARCEL NUMBER:
10.01

SOURCE OF TITLE:
DEED BOOK 649, PAGE 283

DWG BY: TMD
CHKD BY: FSII
DATE: 06.02.2011

FSTAN PROJECT NO.:
11-7305

SHEET 4 OF 4

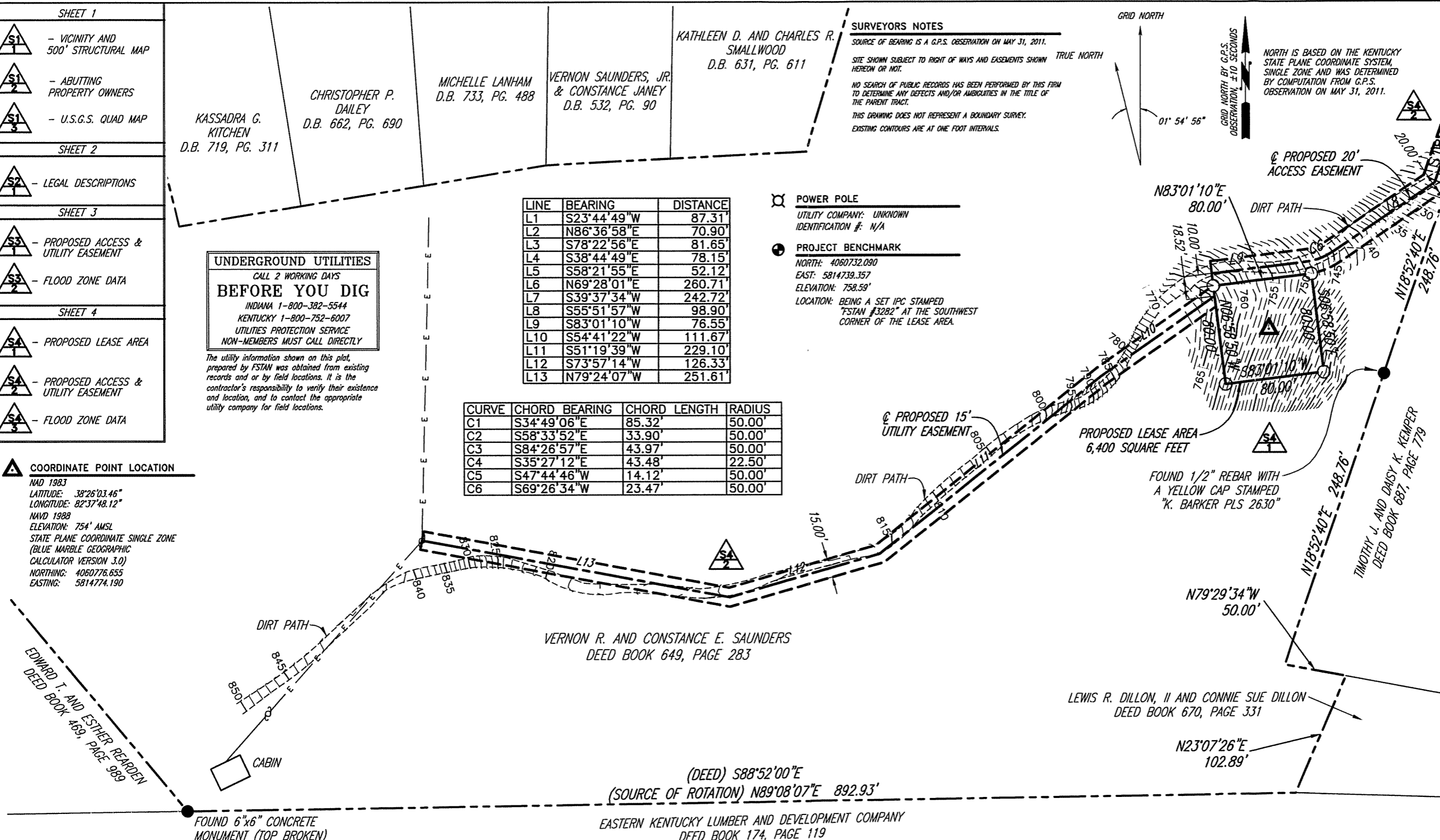
REVISIONS:

C2.2

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

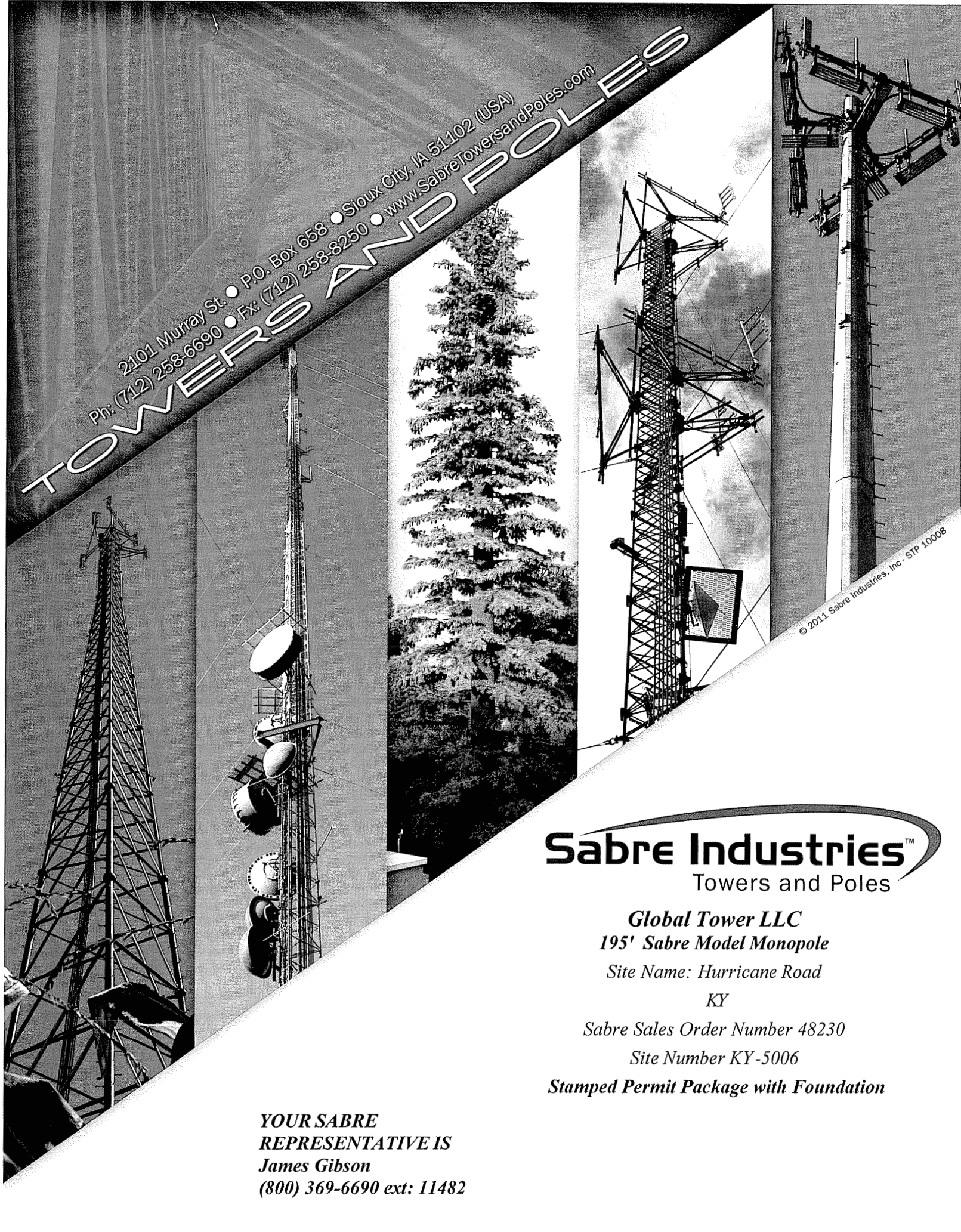
OWNER APPROVAL: _____ DATE: _____
AT&T APPROVAL: _____ DATE: _____

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21019C0070C, DATED 09-16-2004 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.



2101 Murray St. • P.O. Box 658 • Sioux City, IA 51102 (USA)
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TOWERS AND POLES



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Sabre Industries™

Towers and Poles

*Global Tower LLC
195' Sabre Model Monopole
Site Name: Hurricane Road
KY*

*Sabre Sales Order Number 48230
Site Number KY-5006*

Stamped Permit Package with Foundation

**YOUR SABRE
REPRESENTATIVE IS
James Gibson
(800) 369-6690 ext: 11482**



Structural Design Report
195' Monopole
located at: Hurricane Road, KY
Site Number: KY-5006

prepared for: GLOBAL TOWER LLC
by: Sabre Towers & Poles™

Job Number: 48230

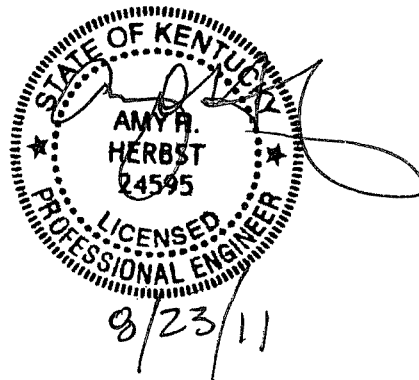
August 17, 2011

Monopole Profile.....	1
Foundation Design Summary.....	2
Pole Calculation.....	C1-C6
Foundation Calculations.....	A1-A2

Monopole by

Foundation by

Approved by



POLE SPECIFICATIONS	
POLE HEIGHT	194.00 FEET
TAPER	.1780 IN/FT
POLE SHAPE	18 SIDED POLYGON
ORIENTATION	FLAT-FLAT

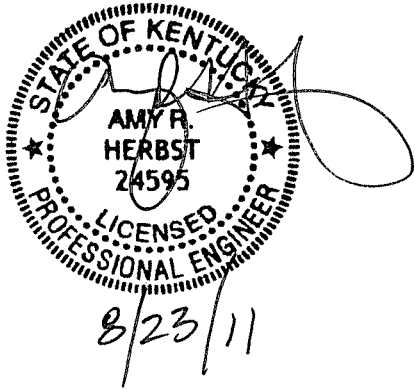
Lev	Qty	Elev ft.	Future	DESCRIPTION
1	1	192.00	F	12' Low Profile Platform (R)
	12	194.00	F	DBXNH-8585B-VTM
	9	194.00	F	TT19-08BP111-001
	3	194.00	F	RRH
	1	194.00	F	DC6-48-60-18-BF
2	1	184.00	F	12' Low Profile Platform (R)
	12	184.00	F	RWA-80017
3	1	174.00	F	12' Low Profile Platform (R)
	12	174.00	F	RWA-80017
4	1	164.00	F	12' Low Profile Platform (R)
	12	164.00	F	RWA-80017

Load Case DESCRIPTION	Wind (mph)	OLF Vert	Rad. Ice	Factors Gust Cf	Wind (psf)
1) 3s Gusted Wind	90.0	1.20		1.10 .65	34.7
2) 3s Gusted Wind 0.9	90.0	.90		1.10 .65	34.7
3) 3s Gusted Wind&Ice	30.0	1.20	.75	1.10 1.20	2.4
4) Service Loads	60.0	1.00		1.10 .65	8.6

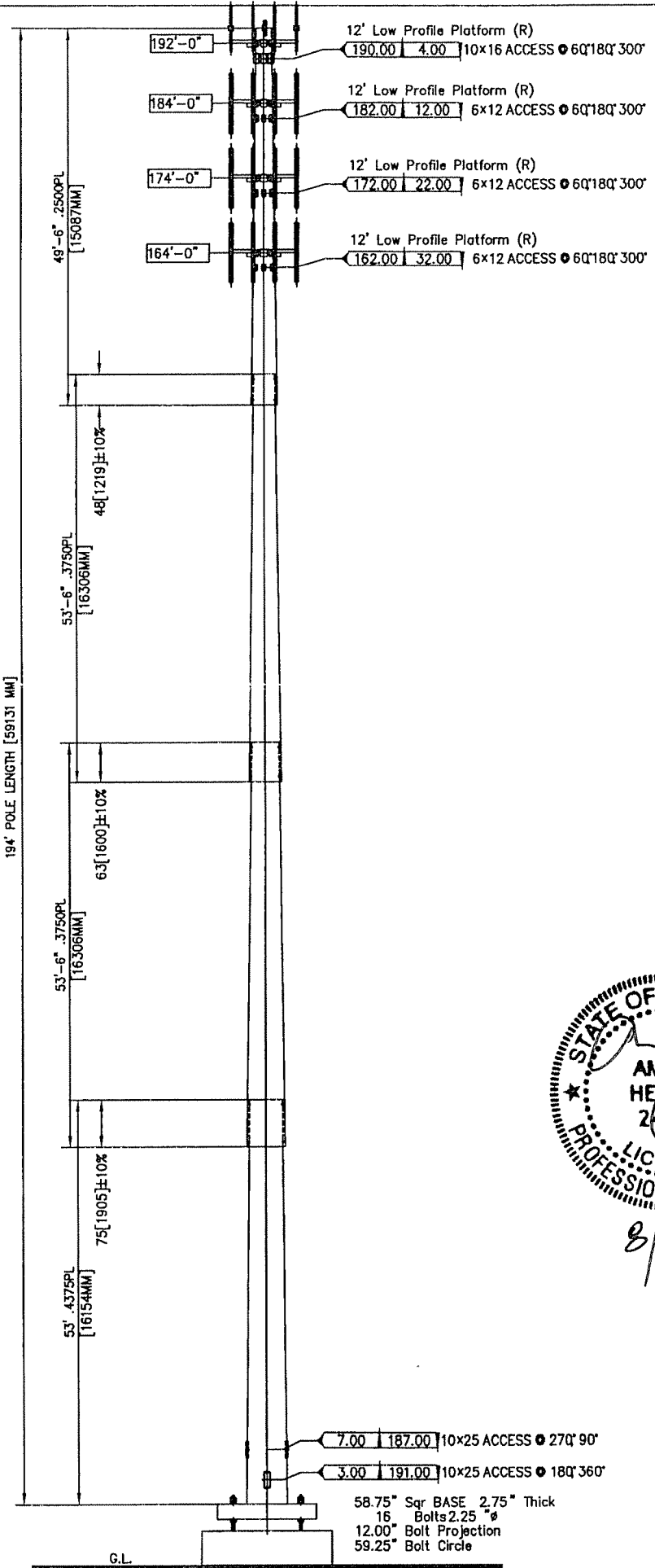
Load Case DESCRIPTION	Res. Axial (kips)	Base Shear (kips)	React Morn (ft-k)	Disp DEF. (ft)	Top SWAY (deg)
1) 3s Gusted Wind	61.9	32.2	4926	22.6	12.68
2) 3s Gusted Wind 0.9	46.8	32.2	4754	21.5	11.99
3) 3s Gusted Wind&Ice	75.7	3.5	501	2.2	1.22
4) Service Loads	50.3	8.1	1212	5.6	3.09

Sec	LENGTH (ft)	Flat-Flat TOP#	BOT#	THICK (in)	WEIGHT (lbs)	STEEL SPEC	FINISH
1	49.50	20.25	29.06	.2500	3700	A572-65	Galv
2	53.50	27.85	37.37	.3750	7500	A572-65	Galv
3	53.50	35.69	45.21	.3750	9300	A572-65	Galv
4	53.00	43.35	52.78	.4375	14400	A572-65	Galv
TOTAL					34900		
ABolt Cluster	Bolt#	Hole#					
AB	84.00	2.25	2.625		2200	A615-75	Galv-18"

- 1) FULL HEIGHT STEP BOLTS
- 2) ANTENNA FEED LINES RUN INSIDE POLE
- 3) THE MONOPOLE WAS DESIGNED IN ACCORDANCE WITH ANSI/TIA-222-G, STRUCTURE CLASS II, EXPOSURE CATEGORY C, TOPOGRAPHIC CATEGORY 1.



		GLOBAL TOWER LLC Hurricane Road, KY KY-5006 195.00 MONOPOLE	
<small>CONFIDENTIAL Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 560 and shall not be reproduced, copied or used in whole or in part for any purpose whatsoever without prior written consent of Sabre Communications Corporation.</small>		SIZE A	DRAWING NO. 48230-PE
DATE 17Aug11	DRAWN BY -	REFERENCE DRAWING N.T.S.	PAGE 1
CHECKED BY TRJ	48230	DRAWING NO. 48230-PE	REV -

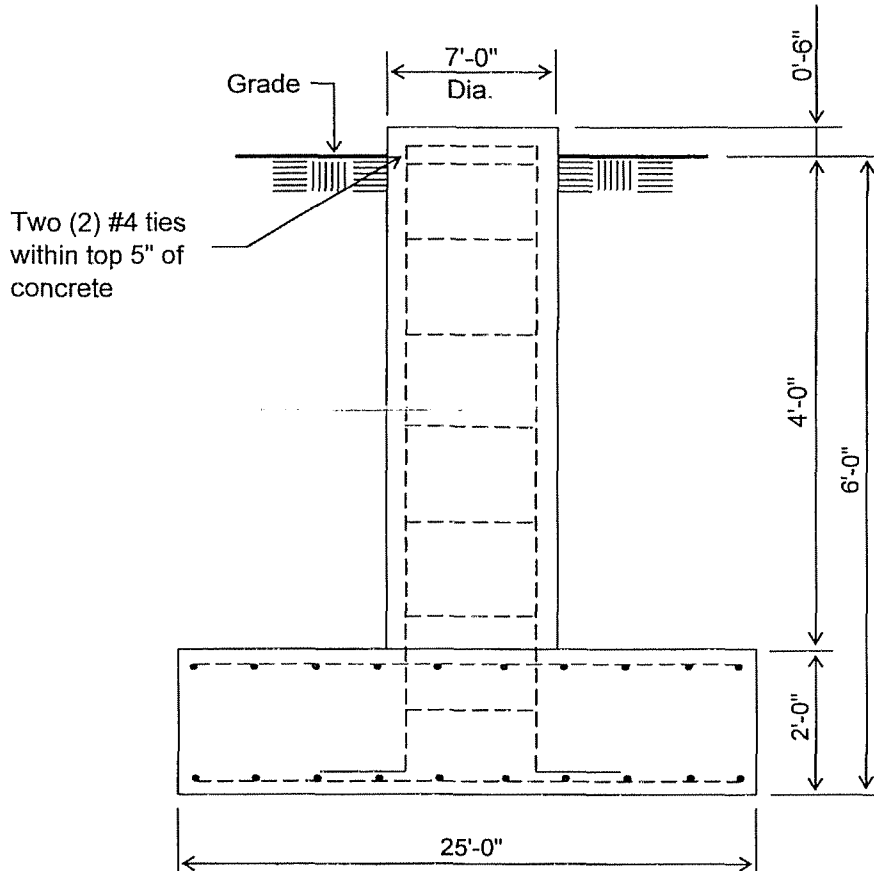


58.75" Sqr BASE 2.75" Thick
 16 Bolts 2.25" ϕ
 12.00" Bolt Projection
 59.25" Bolt Circle

G.L.

Customer: GLOBAL TOWER LLC
Site: Hurricane Road, KY KY-5006

195' Monopole at
90 mph Wind with no ice and 30 mph Wind with 0.75 in. Ice per ANSI/TIA-222-G-2005.
Antenna Loading per Page 1



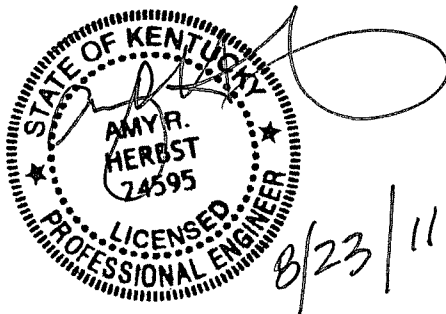
ELEVATION VIEW
(52.71 Cu. Yds. each)
(1 REQUIRED; NOT TO SCALE)

Notes:

- 1). Concrete shall have a minimum 28-day compressive strength of 4000 PSI, in accordance with ACI 318-05
- 2). Rebar to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by TEP project no. 112956.10, dated: 8/15/11
- 6). See the geotechnical report for compaction requirements, if specified.
- 7). The foundation is based on the following factored loads:
Moment (kip-ft) = 4926.67
Axial (kips) = 61.889
Shear (kips) = 32.165

Rebar Schedule per Pad and Pier	
Pier	(32) #9 vertical rebar w/hooks at bottom w/#4 ties, two within top 5" of top of pier then 12" C/C
Pad	(33) #8 horizontal rebar evenly spaced each way top and bottom (132 Total)

8). This is a design drawing only. Please see final construction drawings for all installation details.



SABRE COMMUNICATIONS CORP
 2101 Murray Street
 Sioux City, IA 51101

JOB: 00-48230
GLOBAL TOWER LLC
 Hurricane Road, KY

17-Aug-11 09:19
 Ph 712.258.6690
 Fx 712.258.8250

TOP DIAMETER 20.25 in. [20.56 in. Point-Point]
 BOTTOM DIAMETER 52.78 in. [53.60 in. Point-Point]
 POLE HEIGHT 194.00 ft. 18 SIDED FLAT ORIENTATION
 BASE HEIGHT 1.00 ft. ABOVE GROUND
 E-MODULUS 29000 ksi [12000 ksi SHEAR MODULUS]

APPURTENANCES

ATTACH POINTS:	NO.	X,ft	Qty	Description	Status
	1	192.00	1	User Defined Loading	Initial Appurt
	2	191.90	1	User Defined Loading	Future Appurt
	3	184.00	1	User Defined Loading	Future Appurt
	4	174.00	1	User Defined Loading	Future Appurt
	5	164.00	1	User Defined Loading	Future Appurt

Some wind forces may have been derived from full-scale wind tunnel tests.

Pole Section	Bottom X,ft.	Thick in.	Connect Type	LAP in.	Taper in/ft	Length ft.	Weight lbs	Steel Spec	Pole Finish
1	49.50	.25000	SLIP-JNT	48.	.1780	49.50	3261	A572-65	GALVANIZE
2	99.00	.37500	SLIP-JNT	63.	.1780	53.50	6984	A572-65	GALVANIZE
3	147.25	.37500	SLIP-JNT	75.	.1780	53.50	8682	A572-65	GALVANIZE
4	194.00	.43750	C-WELD		.1780	53.00	11926	A572-65	GALVANIZE

SECTION PROPERTIES

X,ft	UP,ft	D,in	T,in	Area in ²	Iz in ⁴	IxIy in ⁴	SxSy in ³	w/t	d/t	F _y (ksi)	
194.00	.00	20.25	.2500	15.87	1604	802	78.0	12.52	81.0	65.00	TOP
192.00	2.00	20.61	.2500	16.15	1690	845	80.8	12.77	82.4	65.00	P01
191.90	2.10	20.62	.2500	16.17	1694	847	80.9	12.78	82.5	65.00	P02
186.90	7.10	21.51	.2500	16.87	1926	963	88.2	13.41	86.1	65.00	
184.00	10.00	22.03	.2500	17.28	2070	1035	92.5	13.77	88.1	65.00	P03
179.00	15.00	22.92	.2500	17.99	2336	1168	100.4	14.40	91.7	65.00	
174.00	20.00	23.81	.2500	18.69	2620	1310	108.4	15.03	95.2	65.00	P04
169.00	25.00	24.70	.2500	19.40	2928	1464	116.7	15.66	98.8	65.00	
164.00	30.00	25.59	.2500	20.11	3262	1631	125.5	16.29	102.4	65.00	P05
159.00	35.00	26.48	.2500	20.81	3618	1809	134.6	16.91	105.9	65.00	
154.00	40.00	27.37	.2500	21.52	3998	1999	143.9	17.54	109.5	65.00	
149.00	45.00	28.26	.2500	22.23	4404	2202	153.5	18.17	113.0	65.00	
148.50	45.50	28.35	.2500	22.30	4448	2224	154.5	18.23	113.4	65.00	Slip-B01
144.50	49.50	28.56	.3750	33.55	6734	3367	232.2	11.67	76.2	65.00	Slip-T02
139.50	54.50	29.45	.3750	34.61	7392	3696	247.2	12.08	78.5	65.00	
134.50	59.50	30.34	.3750	35.67	8090	4045	262.6	12.50	80.9	65.00	
129.50	64.50	31.23	.3750	36.73	8834	4417	278.6	12.92	83.3	65.00	
124.50	69.50	32.12	.3750	37.78	9618	4809	294.9	13.34	85.7	65.00	
119.50	74.50	33.01	.3750	38.84	10452	5226	311.8	13.76	88.0	65.00	
114.50	79.50	33.90	.3750	39.90	11330	5665	329.1	14.18	90.4	65.00	
109.50	84.50	34.79	.3750	40.96	12258	6129	347.0	14.60	92.8	65.00	
104.50	89.50	35.68	.3750	42.02	13234	6617	365.3	15.01	95.1	65.00	
100.25	93.75	36.44	.3750	42.92	14100	7050	381.1	15.37	97.2	65.00	Slip-B02
95.25	98.75	36.58	.3750	43.09	14266	7133	384.1	15.44	97.5	65.00	
95.00	99.00	36.62	.3750	43.14	14320	7160	385.1	15.46	97.7	65.00	Slip-T03
90.00	104.00	37.51	.3750	44.20	15400	7700	404.3	15.88	100.0	65.00	
85.00	109.00	38.40	.3750	45.26	16534	8267	424.0	16.29	102.4	65.00	
80.00	114.00	39.29	.3750	46.32	17722	8861	444.2	16.71	104.8	65.00	
75.00	119.00	40.18	.3750	47.38	18966	9483	464.8	17.13	107.2	65.00	
70.00	124.00	41.07	.3750	48.44	20266	10133	485.9	17.55	109.5	65.00	
65.00	129.00	41.96	.3750	49.50	21624	10812	507.5	17.97	111.9	65.00	
60.00	134.00	42.85	.3750	50.56	23042	11521	529.5	18.39	114.3	65.00	
55.00	139.00	43.74	.3750	51.62	24522	12261	552.1	18.80	116.6	65.00	
53.00	141.00	44.10	.3750	52.04	25132	12566	561.3	18.97	117.6	65.00	Slip-B03
48.00	146.00	44.24	.4375	60.82	29476	14738	656.2	16.07	101.1	65.00	
46.75	147.25	44.46	.4375	61.13	29926	14963	662.9	16.16	101.6	65.00	Slip-T04
41.75	152.25	45.35	.4375	62.36	31778	15889	690.1	16.51	103.7	65.00	
36.75	157.25	46.24	.4375	63.60	33706	16853	717.9	16.87	105.7	65.00	
31.75	162.25	47.13	.4375	64.84	35710	17855	746.2	17.23	107.7	65.00	
26.75	167.25	48.02	.4375	66.07	37790	18895	775.0	17.59	109.8	65.00	
21.75	172.25	48.91	.4375	67.31	39950	19975	804.4	17.95	111.8	65.00	
16.75	177.25	49.80	.4375	68.54	42192	21096	834.3	18.31	113.8	65.00	
11.75	182.25	50.69	.4375	69.78	44514	22257	864.8	18.67	115.9	65.00	
6.75	187.25	51.58	.4375	71.02	46922	23461	895.9	19.03	117.9	65.00	
1.75	192.25	52.47	.4375	72.25	49414	24707	927.4	19.38	119.9	65.00	
.00	194.00	52.78	.4375	72.68	50308	25154	938.6	19.51	120.6	65.00	BASE

CASE - 1: 3s Gusted Wind **ANSI-TIA-222-G**

WIND OLF	1.60	GUSTED WIND (3sec)	90.0 mph	144.8 kph
VERTICAL OLF	1.20	EXP-CAT/STRUC CLASS	C-II	
DESIGN ICE	.00 in	EXP-POWER COEFF.	.2105	
GUST FACTOR (Gh)	1.10	REFERENCE HEIGHT	900.0 ft	
FORCE COEFF (Cf)	.65	PRESSURE @ 32.7 ft	34.7 psf	1659.0 Pa
IMPORTANCE FAC (I)	1.00	BASE ABOVE Grd	1.0	
DIRECTION FAC (Kd)	.95	CREST HEIGHT	.0 ft	
TOPOGRAPHIC CAT	1			

APPURTENANCES **Sabre Areas**

#	Qty	Description	Center		WEIGHT each Lbs	AREA each Ft^2	Tx-CABLE		WIND Psf	FORCES		MOM. Lg-X Ft-K
			Elev-Ft	Line			Type	Qty		#/Ft	Tra-Y Kips	
1	1	User Defined Loading	192.0		1791	67.0			50.4	3.38	-2.1	-.2
2	1	User Defined Loading	191.9		296	11.5			50.4	.58	-.4	.0
3	1	User Defined Loading	184.0		1611	83.7			50.0	4.18	-1.9	-.2
4	1	User Defined Loading	174.0		1611	83.7			49.4	4.13	-1.9	-.2
5	1	User Defined Loading	164.0		1611	83.7			48.8	4.08	-1.9	-.2

RESULTS

X, ft	Kzt	WIND psf	ICE in	FORCES, kips			MOMENTS, ft-kips			F'y ksf	Inter 4.8.2
				ShearX	ShearY	Axiaz	BendX	BendY	TorqZ		
194.00	1.00	32.83	.00	.0	.01	-.1	.0	.0	.0	82.55	.000
192.00	1.00	32.76	.00	.0	5.22	-7.6	-.3	.0	.0	82.55	.007
191.90	1.00	32.75	.00	.0	6.10	-8.0	-.9	.0	.0	82.55	.008
186.90	1.00	32.57	.00	.0	6.37	-8.2	-31.4	.0	.0	82.55	.064
184.00	1.00	32.47	.00	.0	11.76	-12.2	-50.0	.0	.0	82.55	.097
179.00	1.00	32.28	.00	.0	12.11	-12.6	-108.8	.0	.0	82.55	.185
174.00	1.00	32.09	.00	.0	17.46	-16.5	-169.6	.0	.0	82.55	.265
169.00	1.00	31.89	.00	.0	17.79	-17.0	-256.8	.0	.0	82.55	.368
164.00	1.00	31.69	.00	.0	23.00	-21.0	-346.0	.0	.0	82.23	.462
159.00	1.00	31.49	.00	.0	23.29	-21.5	-461.0	.0	.0	81.49	.576
154.00	1.00	31.28	.00	.0	23.56	-22.1	-577.4	.0	.0	80.75	.678
149.00	1.00	31.06	.00	.0	23.71	-22.5	-695.2	.0	.0	80.01	.770
148.50	1.00	31.04	.00	.0	23.89	-23.0	-707.1	.0	.0	79.94	.779
144.50	1.00	30.86	.00	.0	24.26	-24.1	-802.6	.0	.0	82.55	.568
139.50	1.00	30.64	.00	.0	24.63	-25.2	-924.2	.0	.0	82.55	.614
134.50	1.00	30.41	.00	.0	24.97	-26.0	-1046.7	.0	.0	82.55	.654
129.50	1.00	30.17	.00	.0	25.30	-26.9	-1171.7	.0	.0	82.55	.690
124.50	1.00	29.92	.00	.0	25.63	-27.9	-1298.3	.0	.0	82.55	.721
119.50	1.00	29.66	.00	.0	25.96	-28.8	-1426.7	.0	.0	82.55	.749
114.50	1.00	29.40	.00	.0	26.29	-29.8	-1556.7	.0	.0	82.55	.774
109.50	1.00	29.13	.00	.0	26.62	-30.8	-1687.5	.0	.0	82.55	.796
104.50	1.00	28.85	.00	.0	26.94	-32.0	-1820.8	.0	.0	82.55	.816
100.25	1.00	28.60	.00	.0	27.28	-33.3	-1935.0	.0	.0	82.55	.831
95.25	1.00	28.29	.00	.0	27.46	-34.1	-2071.7	.0	.0	82.55	.882
95.00	1.00	28.28	.00	.0	27.64	-34.9	-2078.3	.0	.0	82.55	.883
90.00	1.00	27.96	.00	.0	27.95	-36.2	-2216.7	.0	.0	82.55	.897
85.00	1.00	27.63	.00	.0	28.22	-37.4	-2356.7	.0	.0	82.22	.913
80.00	1.00	27.28	.00	.0	28.49	-38.5	-2497.5	-.1	.0	81.73	.929
75.00	1.00	26.92	.00	.0	28.76	-39.7	-2640.0	-.1	.0	81.23	.944
70.00	1.00	26.54	.00	.0	29.02	-40.8	-2784.2	-.1	.0	80.74	.958
65.00	1.00	26.13	.00	.0	29.28	-42.1	-2929.2	-.1	.0	80.25	.971
60.00	1.00	25.70	.00	.0	29.53	-43.3	-3075.8	-.1	.0	79.76	.983
55.00	1.00	25.24	.00	.0	29.71	-44.3	-3223.3	-.1	.0	79.26	.994
53.00	1.00	25.05	.00	.0	29.90	-45.5	-3282.5	-.1	.0	79.07	.999
48.00	1.00	24.54	.00	.0	30.07	-46.7	-3431.7	-.1	.0	82.49	.856
46.75	1.00	24.41	.00	.0	30.24	-48.0	-3470.0	-.1	.0	82.38	.858
41.75	1.00	23.85	.00	.0	30.49	-49.8	-3620.8	-.1	.0	81.96	.865
36.75	1.00	23.23	.00	.0	30.72	-51.2	-3773.3	-.1	.0	81.54	.871
31.75	1.00	22.55	.00	.0	30.93	-52.7	-3926.7	-.1	.0	81.11	.876
26.75	1.00	21.78	.00	.0	31.14	-54.2	-4081.7	-.1	.0	80.69	.882
21.75	1.00	20.88	.00	.0	31.34	-55.8	-4237.5	-.1	.0	80.27	.887
16.75	1.00	19.82	.00	.0	31.55	-57.3	-4394.2	-.1	.0	79.85	.891
11.75	1.00	19.16	.00	.0	31.75	-58.9	-4551.7	-.1	.0	79.43	.896
6.75	1.00	19.16	.00	.0	31.96	-60.5	-4710.8	-.1	.0	79.00	.900
1.75	1.00	19.16	.00	.0	32.09	-61.6	-4870.0	-.1	.0	78.58	.903
.00	1.00	19.16	.00	.0	32.16	-61.9	-4926.7	.1	.0	78.43	.904

DISPLACEMENTS

ELEV X, ft	DEFLECTION feet				ROTATION, degrees			
	X	Y	Z	XY-Result	X	Y	Z	XY-Result
194.00	.00	22.62	-1.82	22.62<11.66%>	-12.68	.00	.00	12.68

CASE - 2: 3s Gusted Wind 0.9 Dead ANSI-TIA-222-G

WIND OLF	1.60	GUSTED WIND (3sec)	90.0 mph	144.8 kph
VERTICAL OLF	.90	EXP-CAT/STRUC CLASS	C-II	
DESIGN ICE	.00 in	EXP-POWER COEFF.	.2105	
GUST FACTOR (Gh)	1.10	REFERENCE HEIGHT	900.0 ft	
FORCE COEFF (Cf)	.65	PRESSURE @ 32.7 ft	34.7 psf	1659.0 Pa
IMPORTANCE FAC (I)	1.00	BASE ABOVE Grd	1.0	
DIRECTION FAC (Kd)	.95	CREST HEIGHT	.0 ft	
TOPOGRAPHIC CAT	1			

APPURTENANCES **Sabre Areas**

#	Qty	Description	Center Line Elev-Ft	WEIGHT each Lbs	AREA each Ft^2	Tx-CABLE		WIND Psf	FORCES		MOM. Lg-X Ft-K
						Type	Qty #/Ft		Tra-Y Kips	Ax-Z Kips	
1	1	User Defined Loading	192.0	1791	67.0			50.4	3.38	-1.6	-.2
2	1	User Defined Loading	191.9	296	11.5			50.4	.58	-.3	.0
3	1	User Defined Loading	184.0	1611	83.7			50.0	4.18	-1.4	-.2
4	1	User Defined Loading	174.0	1611	83.7			49.4	4.13	-1.4	-.2
5	1	User Defined Loading	164.0	1611	83.7			48.8	4.08	-1.4	-.2

RESULTS

X, ft	Kzt	WIND psf	ICE in	FORCES, kips				MOMENTS, ft-kips			F'y ksi	Inter 4.8.2
				ShearX	ShearY	AxialZ	BendX	BendY	TorqZ			
194.00	1.00	32.83	.00	.0	.01	.0	.0	.0	.0	82.55	.000	
192.00	1.00	32.76	.00	.0	4.69	-5.6	-.3	.0	.0	82.55	.005	
191.90	1.00	32.75	.00	.0	5.53	-5.8	-.8	.0	.0	82.55	.007	
186.90	1.00	32.57	.00	.0	5.79	-6.0	-28.5	.0	.0	82.55	.057	
184.00	1.00	32.47	.00	.0	10.88	-8.8	-45.5	.0	.0	82.55	.087	
179.00	1.00	32.28	.00	.0	11.21	-9.1	-99.8	.0	.0	82.55	.168	
174.00	1.00	32.09	.00	.0	16.29	-11.9	-156.2	.0	.0	82.55	.242	
169.00	1.00	31.89	.00	.0	16.62	-12.3	-237.6	.0	.0	82.55	.338	
164.00	1.00	31.69	.00	.0	21.59	-15.1	-320.8	.0	.0	82.23	.425	
159.00	1.00	31.49	.00	.0	21.90	-15.6	-428.8	.0	.0	81.49	.532	
154.00	1.00	31.28	.00	.0	22.20	-16.0	-538.3	.0	.0	80.75	.629	
149.00	1.00	31.06	.00	.0	22.37	-16.3	-649.3	.0	.0	80.01	.716	
148.50	1.00	31.04	.00	.0	22.55	-16.7	-660.4	.0	.0	79.94	.724	
144.50	1.00	30.86	.00	.0	22.91	-17.6	-750.7	.0	.0	82.55	.530	
139.50	1.00	30.64	.00	.0	23.28	-18.4	-865.0	.0	.0	82.55	.573	
134.50	1.00	30.41	.00	.0	23.64	-19.0	-981.7	.0	.0	82.55	.611	
129.50	1.00	30.17	.00	.0	23.99	-19.7	-1100.0	.0	.0	82.55	.645	
124.50	1.00	29.92	.00	.0	24.35	-20.5	-1220.0	.0	.0	82.55	.676	
119.50	1.00	29.66	.00	.0	24.71	-21.2	-1341.7	.0	.0	82.55	.703	
114.50	1.00	29.40	.00	.0	25.06	-22.0	-1465.0	.0	.0	82.55	.727	
109.50	1.00	29.13	.00	.0	25.42	-22.8	-1590.0	.0	.0	82.55	.748	
104.50	1.00	28.85	.00	.0	25.77	-23.6	-1717.5	.0	.0	82.55	.767	
100.25	1.00	28.60	.00	.0	26.13	-24.7	-1826.7	.0	.0	82.55	.782	
95.25	1.00	28.29	.00	.0	26.33	-25.3	-1957.5	.0	.0	82.55	.831	
95.00	1.00	28.28	.00	.0	26.52	-25.9	-1964.2	.0	.0	82.55	.832	
90.00	1.00	27.96	.00	.0	26.87	-26.9	-2096.7	.0	.0	82.55	.846	
85.00	1.00	27.63	.00	.0	27.19	-27.8	-2230.8	.0	.0	82.22	.862	
80.00	1.00	27.28	.00	.0	27.52	-28.7	-2366.7	.0	.0	81.73	.878	
75.00	1.00	26.92	.00	.0	27.84	-29.6	-2505.0	-.1	.0	81.23	.893	
70.00	1.00	26.54	.00	.0	28.16	-30.5	-2644.2	-.1	.0	80.74	.908	
65.00	1.00	26.13	.00	.0	28.48	-31.5	-2785.0	-.1	.0	80.25	.921	
60.00	1.00	25.70	.00	.0	28.79	-32.4	-2926.7	-.1	.0	79.76	.933	
55.00	1.00	25.24	.00	.0	29.01	-33.2	-3070.8	-.1	.0	79.26	.945	
53.00	1.00	25.05	.00	.0	29.24	-34.2	-3129.2	-.1	.0	79.07	.950	
48.00	1.00	24.54	.00	.0	29.45	-35.1	-3275.0	-.1	.0	82.49	.815	
46.75	1.00	24.41	.00	.0	29.65	-36.1	-3311.7	-.1	.0	82.38	.817	
41.75	1.00	23.85	.00	.0	29.96	-37.4	-3460.0	-.1	.0	81.96	.824	
36.75	1.00	23.23	.00	.0	30.25	-38.5	-3610.0	-.1	.0	81.54	.831	
31.75	1.00	22.55	.00	.0	30.53	-39.7	-3761.7	-.1	.0	81.11	.837	
26.75	1.00	21.78	.00	.0	30.81	-40.9	-3914.2	-.1	.0	80.69	.843	
21.75	1.00	20.88	.00	.0	31.08	-42.0	-4068.3	-.1	.0	80.27	.849	
16.75	1.00	19.82	.00	.0	31.36	-43.3	-4223.3	-.1	.0	79.85	.854	
11.75	1.00	19.16	.00	.0	31.64	-44.5	-4380.0	-.1	.0	79.43	.859	
6.75	1.00	19.16	.00	.0	31.93	-45.7	-4538.3	-.1	.0	79.00	.864	
1.75	1.00	19.16	.00	.0	32.12	-46.6	-4698.3	-.1	.0	78.58	.869	
.00	1.00	19.16	.00	.0	32.19	-46.8	4754.2	.1	.0	78.43	.870	

DISPLACEMENTS

ELEV X, ft	DEFLECTION feet				ROTATION, degrees			
	X	Y	Z	XY-Result	X	Y	Z	XY-Result
194.00	.00	21.51	-1.64	21.51<11.09%>	-11.99	.00	.00	11.99

SABRE COMMUNICATIONS CORP
 2101 Murray Street
 Sioux City, IA 51101

JOB: 00-48230
 GLOBAL TOWER LLC
 Hurricane Road, KY

17-Aug-11 09:19
 Ph 712.258.6690
 Ex 712.258.8250

CASE - 3: 3s Gusted Wind&Ice

ANSI-TIA-222-G

WIND OLF	1.00	GUSTED WIND (3sec)	30.0 mph	48.3 kph
VERTICAL OLF	1.20	EXP-CAT/STRUC CLASS	C-II	
DESIGN ICE	.75 in	EXP-POWER COEFF.	.2105	
GUST FACTOR (Gh)	1.10	REFERENCE HEIGHT	900.0 ft	
FORCE COEFF (Cf)	1.20	PRESSURE @ 32.7 ft	2.4 psf	115.2 Pa
IMPORTANCE FAC (I)	1.00	BASE ABOVE Grd	1.0	
DIRECTION FAC (Kd)	.95	CREST HEIGHT	.0 ft	
TOPOGRAPHIC CAT	1			

APPURTENANCES

Sabre Areas

#	Qty	Description	Center Line Elev-Ft	WEIGHT each Lbs	AREA each Ft^2	Tx-CABLE		WIND Psf	FORCES			MOM. Lg-X Ft-K
						Type	Qty #/Ft		Tra-Y Kips	Ax-Z Kips		
1	1	User Defined Loading	192.0	1970	73.7			3.5	.26	-2.4	.0	
2	1	User Defined Loading	191.9	325	12.6			3.5	.04	-.4	.0	
3	1	User Defined Loading	184.0	1772	92.1			3.5	.32	-2.1	.0	
4	1	User Defined Loading	174.0	1772	92.1			3.4	.32	-2.1	.0	
5	1	User Defined Loading	164.0	1772	92.1			3.4	.31	-2.1	.0	

RESULTS

X, ft	Kzt	WIND psf	ICE in	FORCES, kips				MOMENTS, ft-kips			F'y ksi	Inter 4.8.2
				ShearX	ShearY	AxialZ	BendX	BendY	TorqZ			
194.00	1.00	4.21	1.79	.0	.00	-.1	.0	.0	.0	82.55	.000	
192.00	1.00	4.20	1.79	.0	.46	-8.8	.0	.0	.0	82.55	.007	
191.90	1.00	4.20	1.79	.0	.54	-9.5	-.1	.0	.0	82.55	.008	
186.90	1.00	4.18	1.78	.0	.59	-10.0	-2.8	.0	.0	82.55	.013	
184.00	1.00	4.16	1.78	.0	1.06	-15.4	-4.5	.0	.0	82.55	.020	
179.00	1.00	4.14	1.78	.0	1.11	-16.0	-9.8	.0	.0	82.55	.028	
174.00	1.00	4.11	1.77	.0	1.58	-21.4	-15.4	.0	.0	82.55	.038	
169.00	1.00	4.09	1.77	.0	1.64	-22.1	-23.3	.0	.0	82.55	.048	
164.00	1.00	4.06	1.76	.0	2.09	-27.3	-31.5	.0	.0	82.23	.059	
159.00	1.00	4.04	1.76	.0	2.14	-28.1	-41.9	.0	.0	81.49	.069	
154.00	1.00	4.01	1.75	.0	2.19	-28.8	-52.6	.0	.0	80.75	.079	
149.00	1.00	3.98	1.75	.0	2.21	-29.3	-63.5	.0	.0	80.01	.087	
148.50	1.00	3.98	1.74	.0	2.24	-29.9	-64.6	.0	.0	79.94	.088	
144.50	1.00	3.96	1.74	.0	2.29	-31.2	-73.6	.0	.0	82.55	.064	
139.50	1.00	3.93	1.73	.0	2.35	-32.4	-85.1	.0	.0	82.55	.068	
134.50	1.00	3.90	1.73	.0	2.41	-33.5	-96.8	.0	.0	82.55	.072	
129.50	1.00	3.87	1.72	.0	2.46	-34.6	-108.8	.0	.0	82.55	.076	
124.50	1.00	3.84	1.71	.0	2.51	-35.7	-121.2	.0	.0	82.55	.079	
119.50	1.00	3.80	1.71	.0	2.56	-36.8	-133.7	.0	.0	82.55	.082	
114.50	1.00	3.77	1.70	.0	2.62	-38.0	-146.5	.0	.0	82.55	.085	
109.50	1.00	3.73	1.69	.0	2.67	-39.2	-159.6	.0	.0	82.55	.087	
104.50	1.00	3.70	1.68	.0	2.72	-40.6	-172.9	.0	.0	82.55	.089	
100.25	1.00	3.67	1.68	.0	2.77	-42.2	-184.5	.0	.0	82.55	.091	
95.25	1.00	3.63	1.67	.0	2.79	-43.1	-198.3	.0	.0	82.55	.097	
95.00	1.00	3.63	1.67	.0	2.82	-44.0	-199.0	.0	.0	82.55	.097	
90.00	1.00	3.58	1.66	.0	2.87	-45.5	-213.1	.0	.0	82.55	.099	
85.00	1.00	3.54	1.65	.0	2.91	-46.8	-227.4	.0	.0	82.22	.101	
80.00	1.00	3.50	1.64	.0	2.96	-48.2	-242.0	.0	.0	81.73	.103	
75.00	1.00	3.45	1.63	.0	3.00	-49.6	-256.8	.0	.0	81.23	.105	
70.00	1.00	3.40	1.62	.0	3.04	-51.0	-271.8	.0	.0	80.74	.107	
65.00	1.00	3.35	1.61	.0	3.08	-52.4	-287.0	.0	.0	80.25	.109	
60.00	1.00	3.30	1.60	.0	3.12	-53.9	-302.3	.0	.0	79.76	.110	
55.00	1.00	3.24	1.58	.0	3.15	-55.1	-318.0	.0	.0	79.26	.112	
53.00	1.00	3.21	1.58	.0	3.18	-56.5	-324.3	.0	.0	79.07	.113	
48.00	1.00	3.15	1.56	.0	3.20	-57.9	-340.2	.0	.0	82.49	.097	
46.75	1.00	3.13	1.56	.0	3.23	-59.4	-344.2	.0	.0	82.38	.097	
41.75	1.00	3.06	1.54	.0	3.26	-61.4	-360.3	.0	.0	81.96	.098	
36.75	1.00	2.98	1.52	.0	3.30	-63.1	-376.6	.0	.0	81.54	.099	
31.75	1.00	2.89	1.50	.0	3.33	-64.9	-393.1	.0	.0	81.11	.100	
26.75	1.00	2.79	1.47	.0	3.36	-66.7	-409.8	.0	.0	80.69	.101	
21.75	1.00	2.68	1.45	.0	3.40	-68.5	-426.6	.0	.0	80.27	.102	
16.75	1.00	2.54	1.41	.0	3.43	-70.4	-443.5	.0	.0	79.85	.103	
11.75	1.00	2.46	1.36	.0	3.46	-72.3	-460.7	.0	.0	79.43	.104	
6.75	1.00	2.46	1.30	.0	3.49	-74.2	-477.9	.0	.0	79.00	.105	
1.75	1.00	2.46	1.17	.0	3.51	-75.4	-495.3	.0	.0	78.58	.105	
.00	1.00	2.46	1.06	.0	3.52	-75.7	-501.5	.0	.0	78.43	.106	

DISPLACEMENTS

ELEV X, ft	DEFLECTION feet			ROTATION, degrees		
	X	Y	Z	X	Y	Z
194.00	.00	2.22	-.02	XY-Result 2.22< 1.14%>	X -1.22	Y .00

CASE - 4: Service Loads

ANSI-TIA-222-G

WIND OLF	1.00	GUSTED WIND (3sec)	60.0 mph	96.6 kph
VERTICAL OLF	1.00	EXP-CAT/STRUC CLASS	C-II	
DESIGN ICE	1.00 in	EXP-POWER COEFF.	.2105	
GUST FACTOR (Gh)	1.10	REFERENCE HEIGHT	900.0 ft	
FORCE COEFF (Cf)	.65	PRESSURE @ 32.7 ft	8.6 psf	412.3 Pa
IMPORTANCE FAC (I)	1.00	BASE ABOVE Grd	1.0	
DIRECTION FAC (Kd)	.85	CREST HEIGHT	.0 ft	
TOPOGRAPHIC CAT	1			

APPURTENANCES

Sabre Areas

#	Qty	Description	Center WEIGHT		AREA	Tx-CABLE			WIND	FORCES		MOM.
			Elev-Ft	Lbs		Ft^2	Type	Qty		#/Ft	Psf	
1	1	User Defined Loading	192.0	1791	67.0				12.5	.84	-1.8	.0
2	1	User Defined Loading	191.9	296	11.5				12.5	.14	-.3	.0
3	1	User Defined Loading	184.0	1611	83.7				12.4	1.04	-1.6	-.1
4	1	User Defined Loading	174.0	1611	83.7				12.3	1.03	-1.6	-.1
5	1	User Defined Loading	164.0	1611	83.7				12.1	1.01	-1.6	-.1

RESULTS

X, ft	Kzt	WIND psf	ICE in	FORCES, kips				MOMENTS, ft-kips			F'y ksl	Inter 4.8.2
				ShearX	ShearY	AxialZ	BendX	BendY	TorqZ			
194.00	1.00	8.16	.00	.0	.00	-.1	.0	.0	.0	82.55	.000	
192.00	1.00	8.14	.00	.0	1.24	-7.1	-.1	.0	.0	82.55	.006	
191.90	1.00	8.14	.00	.0	1.45	-7.5	-.2	.0	.0	82.55	.007	
186.90	1.00	8.10	.00	.0	1.52	-7.7	-7.5	.0	.0	82.55	.020	
184.00	1.00	8.07	.00	.0	2.84	-11.8	-11.9	.0	.0	82.55	.030	
179.00	1.00	8.02	.00	.0	2.93	-12.1	-26.1	.0	.0	82.55	.051	
174.00	1.00	7.98	.00	.0	4.24	-16.1	-40.8	.0	.0	82.55	.073	
169.00	1.00	7.93	.00	.0	4.32	-16.5	-62.0	.0	.0	82.55	.097	
164.00	1.00	7.88	.00	.0	5.60	-20.4	-83.7	.0	.0	82.23	.122	
159.00	1.00	7.83	.00	.0	5.67	-20.8	-111.7	.0	.0	81.49	.149	
154.00	1.00	7.77	.00	.0	5.74	-21.2	-140.0	.0	.0	80.75	.174	
149.00	1.00	7.72	.00	.0	5.78	-21.4	-168.7	.0	.0	80.01	.197	
148.50	1.00	7.72	.00	.0	5.82	-21.8	-171.6	.0	.0	79.94	.199	
144.50	1.00	7.67	.00	.0	5.91	-22.6	-194.8	.0	.0	82.55	.145	
139.50	1.00	7.61	.00	.0	6.00	-23.4	-224.4	.0	.0	82.55	.156	
134.50	1.00	7.56	.00	.0	6.09	-24.0	-254.4	.0	.0	82.55	.166	
129.50	1.00	7.50	.00	.0	6.17	-24.6	-284.8	.0	.0	82.55	.174	
124.50	1.00	7.44	.00	.0	6.26	-25.3	-315.8	.0	.0	82.55	.182	
119.50	1.00	7.37	.00	.0	6.34	-25.9	-347.0	.0	.0	82.55	.189	
114.50	1.00	7.31	.00	.0	6.43	-26.6	-378.8	.0	.0	82.55	.195	
109.50	1.00	7.24	.00	.0	6.51	-27.3	-410.8	.0	.0	82.55	.200	
104.50	1.00	7.17	.00	.0	6.59	-28.2	-443.4	.0	.0	82.55	.205	
100.25	1.00	7.11	.00	.0	6.68	-29.2	-471.4	.0	.0	82.55	.209	
95.25	1.00	7.03	.00	.0	6.73	-29.8	-504.8	.0	.0	82.55	.222	
95.00	1.00	7.03	.00	.0	6.77	-30.3	-506.5	.0	.0	82.55	.222	
90.00	1.00	6.95	.00	.0	6.85	-31.3	-540.3	.0	.0	82.55	.225	
85.00	1.00	6.87	.00	.0	6.93	-32.1	-574.7	.0	.0	82.22	.229	
80.00	1.00	6.78	.00	.0	7.01	-32.9	-609.3	.0	.0	81.73	.233	
75.00	1.00	6.69	.00	.0	7.08	-33.7	-644.3	.0	.0	81.23	.237	
70.00	1.00	6.60	.00	.0	7.15	-34.5	-679.7	.0	.0	80.74	.241	
65.00	1.00	6.50	.00	.0	7.23	-35.4	-715.5	.0	.0	80.25	.244	
60.00	1.00	6.39	.00	.0	7.30	-36.3	-751.6	.0	.0	79.76	.247	
55.00	1.00	6.27	.00	.0	7.35	-37.0	-788.1	.0	.0	79.26	.250	
53.00	1.00	6.23	.00	.0	7.40	-37.9	-802.8	.0	.0	79.07	.251	
48.00	1.00	6.10	.00	.0	7.45	-38.8	-840.0	.0	.0	82.49	.216	
46.75	1.00	6.07	.00	.0	7.50	-39.8	-849.2	.0	.0	82.38	.216	
41.75	1.00	5.93	.00	.0	7.57	-41.2	-886.7	.0	.0	81.96	.218	
36.75	1.00	5.77	.00	.0	7.64	-42.3	-924.2	.0	.0	81.54	.220	
31.75	1.00	5.60	.00	.0	7.70	-43.4	-962.5	.0	.0	81.11	.221	
26.75	1.00	5.41	.00	.0	7.77	-44.5	-1000.8	.0	.0	80.69	.223	
21.75	1.00	5.19	.00	.0	7.83	-45.7	-1040.0	.0	.0	80.27	.224	
16.75	1.00	4.93	.00	.0	7.89	-46.8	-1079.2	.0	.0	79.85	.226	
11.75	1.00	4.76	.00	.0	7.96	-48.0	-1118.3	.0	.0	79.43	.227	
6.75	1.00	4.76	.00	.0	8.02	-49.2	-1158.3	.0	.0	79.00	.228	
1.75	1.00	4.76	.00	.0	8.07	-50.1	-1198.3	.0	.0	78.58	.229	
.00	1.00	4.76	.00	.0	8.08	-50.3	-1212.5	.0	.0	78.43	.229	

DISPLACEMENTS

ELEV X, ft	DEFLECTION feet			ROTATION, degrees			MicroW Allow
	X	Y	Z	X	Y	Z	
194.00	.00	5.55	-.11	XY-Result	XY-Result		
				5.55< 2.86%>	-3.09	.00	3.09

SABRE COMMUNICATIONS CORP
 2101 Murray Street
 Sioux City, IA 51101

JOB: 00-48230
 GLOBAL TOWER LLC
 Hurricane Road, KY

17-Aug-11 09:19
 Ph 712.258.6690
 Fx 712.258.8250

SHAPE: 18 SIDED POLYGON with FLAT-FLAT ORIENTATION
 BOLTS: QUADRANT SPACED BOLTS 6.00 in. ON CENTER
 LOCATE:

POLE DATA

DIAMETER =	52.78 in.	BASE	AXIAL FORCE=	-61.9 kips	Vert
PLATE =	.4375 in.	ACTIONS	SHEAR X =	20.3 kips	Long
TAPER =	.1780 in/ft		SHEAR Y =	24.9 kips	Tran
POLE Fy =	65.00 ksi		X-AXIS MOM =	3483.2 ft-kips	Tran
			Y-AXIS MOM =	3483.2 ft-kips	Long
			Z-AXIS MOM =	.0 ft-kips	Vert

DESIGN CASE = 1 3s Gusted Wind

Design: ANY Orientation Reactions at 45.00 deg to X-AXIS

BOLT LOADS

AXIAL - COMPRESSION	=	253.32 kips	
AXIAL - TENSION	=	245.58 kips	
SHEAR	=	2.83 kips	
AXIAL STRESS	=	77.94 ksi	
SHEAR STRESS	=	.92 ksi	
YIELD STRENGTH Fy	=	75.00 ksi	
ULT. STRENGTH Fu	=	100.00 ksi	Interaction
ALLOW STRESS Fa [.80 x 1.00]	=	80.00 ksi	.997 TIA-G
SHEAR Fv [.80 x .40]	=	32.00 ksi	
TENSION AREA REQUIRED	=	3.17 in ²	
TENSION AREA FURNISHED	=	3.25 in ²	
ROOT AREA FURNISHED	=	3.07 in ²	

A615 :: ANCHOR BOLT DESIGN USED

16 Bolts on a	59.250 in.	Bolt Circle	SHIP
2.250 in. Diameter	67.13 in.	Embedded	(lbs)
12.00 in. Exposed	84.00 in.	Total Length	2174

CONCRETE - Fc= 4000 psi

ANCHOR BOLTS are STRAIGHT w\ UPLIFT NUT

BASE PLATE

[Bend Model: Flat- 17]
 YIELD STRENGTH = 50.0 ksi
 BEND LINE WIDTH = 30.4 in.
 PLATE MOMENT = 2325.8 in-k
 THICKNESS REQD = 2.606 in.
 BENDING STRESS = 40.4 ksi
 ALLOWABLE STRESS = 45.0 ksi
 [Fy x .90 x 1.00]

BASE PLATE USED

2.75 in.	THICK	SHIP
58.75 in.	SQUARE	(lbs)
40.50 in.	CENTER HOLE	1386
12.00 in.	CORNER CLIP	

LOAD CASE SUMMARY

LC	FORCES- (kips)			MOMENTS- (ft-k)			ABolt-Str		Plate-Str		Code
	Axial	ShearX	ShearY	X-axis	Y-axis	TorQ	CSR	ksi	Actual	Allow	
1	61.9	20.3	24.9	3113	3818	0	.997	75.00	40.40	45.00	TIA-G
2	46.8	20.3	25.0	3004	3684	0	.960	75.00	38.85	45.00	TIA-G
3	75.7	2.2	2.7	316	388	0	.118	75.00	4.83	45.00	TIA-G
4	50.3	5.1	6.3	766	939	0	.254	75.00	10.30	45.00	TIA-G

MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES

195' Monopole GLOBAL TOWER LLC Hurricane Road, KY (48230) 8-17-11 REB

Overall Loads:

Factored Moment (ft-kips)	4926.67
Factored Axial (kips)	61.889
Factored Shear (kips)	32.165
Bearing Design Strength (ksf)	39.55
Water Table Below Grade (ft)	999
Width of Mat (ft)	25
Thickness of Mat (ft)	2
Depth to Bottom of Slab (ft)	6
Quantity of Bolts in Bolt Circle	16
Bolt Circle Diameter (in)	59.25
Top of Concrete to Top of Bottom Threads (in)	60
Diameter of Pier (ft)	7
Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	4
Quantity of Bars in Mat	33
Bar Diameter in Mat (in)	1
Area of Bars in Mat (in ²)	25.92
Spacing of Bars in Mat (in)	9.16
Quantity of Bars Pier	32
Bar Diameter in Pier (in)	1.128
Tie Bar Diameter in Pier (in)	0.5
Spacing of Ties (in)	12
Area of Bars in Pier (in ²)	31.98
Spacing of Bars in Pier (in)	7.45
f _c (ksi)	4
f _y (ksi)	60
Unit Wt. of Soil (kcf)	0.118
Unit Wt. of Concrete (kcf)	0.15

Volume of Concrete (yd³) 52.71

Two-Way Shear Action:

Average d (in)	20
ϕV_c (kips)	1239.8
$\phi V_c = \phi(2 + 4/\beta_c)f_c^{1/2}b_o d$	1859.8
$\phi V_c = \phi(\alpha_s d/b_o + 2)f_c^{1/2}b_o d$	1378.9
$\phi V_c = \phi 4f_c^{1/2}b_o d$	1239.8
Shear perimeter, b _o (in)	326.73
β_c	1

One-Way Shear:

ϕV_c (kips) 645.1

Stability:

Overturning Design Strength (ft-k) 5176.9

Max. Net Bearing Press. (ksf) 3.67

Ultimate Bearing Pressure (ksf) 52.73
Bearing Φ_s 0.75

Minimum Pier Diameter (ft) 6.44
Equivalent Square b (ft) 6.20

Recommended Spacing (in) 6 to 12

Minimum Pier A_s (in²) 27.71
Recommended Spacing (in) 6 to 12

V_u (kips) 93.1

V_u (kips) 345.3

Total Applied M (ft-k) 5135.7

MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES (CONTINUED)
 195' Monopole GLOBAL TOWER LLC Hurricane Road, KY (48230) 8-17-11 REB

Pier Design:

ϕV_n (kips)	610.3	V_u (kips)	32.2
$\phi V_c = \phi 2(1 + N_u / (2000 A_g)) f'_c{}^{1/2} b_w d$	610.3		
V_s (kips)	0.0	*** V_s max = $4 f'_c{}^{1/2} b_w d$ (kips)	1428.0
Maximum Spacing (in)	5.61	(Only if Shear Ties are Required)	
Actual Hook Development (in)	19.00	Req'd Hook Development l_{dn} (in)	14.98
		*** Ref. To Spacing Requirements ACI 11.5.4.3	

Flexure in Slab:

ϕM_n (ft-kips)	2243.7	M_u (ft-kips)	2193.3
a (in)	1.52		
Steel Ratio	0.00432		
β_1	0.85		
Maximum Steel Ratio (.75 p_b)	0.0214		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	147.00	Required Development in Pad (in)	46.33

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Interaction Diagram Visual Check	1
Two-Way Shear Action	1
One-Way Shear Action	1
Overturning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1

Date: **August 15, 2011**

Erin Scantlin
Global Tower Partners
1200 Peachtree Street, Mailstop 114
Atlanta, GA 30309
Office: (404) 962-5548



Tower Engineering Professionals, Inc.
3703 Junction Boulevard
Raleigh, NC 27603
(919) 661-6351
Geotech@tepgroup.net

Subject: Subsurface Exploration Report

GTP Designation:	Site Number:	KY-5006
	Site Name:	Hurricane Road
Engineering Firm Designation:	TEP Project Number:	112956.10
Site Data:	5730 Rockwood Drive, Catlettsburg, KY 41129 (Boyd County) Latitude N38° 26' 3.46", Longitude W82° 37' 48.12" 195 Foot - Proposed Monopole Tower	

Dear Ms. Scantlin,

Tower Engineering Professionals, Inc. is pleased to submit this "**Subsurface Exploration Report**" to evaluate subsurface conditions in the tower area as they pertain to providing support for the tower foundation.

This report has been prepared in accordance with generally accepted geotechnical engineering practice for specific application to this project. The conclusions in this report are based on the applicable standards of TEP's practice in this geographic area at the time this report was prepared. No other warranty, express or implied, is made.


TEP assumes the current ground surface elevation; tower location and subsequent centerline provided are correct and are consistent with the elevation and centerline to be used for construction of the structure. Should the ground surface elevation be altered and/or the tower location be moved or shifted TEP should be contacted to determine if additional borings are necessary.

The analyses and recommendations submitted herein are based, in part, upon the data obtained from the subsurface exploration. The soil conditions may vary from what is represented in the boring log. While some transitions may be gradual, subsurface conditions in other areas may be quite different. Should actual site conditions vary from those presented in this report, TEP should be provided the opportunity to amend its recommendations as necessary.

We at *Tower Engineering Professionals, Inc.* appreciate the opportunity of providing our continuing professional services to you and Global Tower Partners. If you have any questions or need further assistance on this or any other projects please give us a call.

Report Prepared/Reviewed by: Cory A. Bauer / John D. Longest, P.E.

Respectfully submitted by:


Pete Jernigan, P.E.

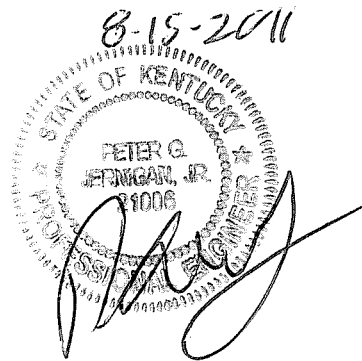


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4) SUBSURFACE CONDITIONS

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- 4.3) Subsurface Water
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6) SOIL RESISTIVITY

7) CONSTRUCTION CONSIDERATIONS - SHALLOW FOUNDATION

- 7.1) Excavation
- 7.2) Foundation Evaluation/Subgrade Preparation
- 7.3) Fill Placement and Compaction
- 7.4) Reuse of Excavated Soil

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1) PROJECT DESCRIPTION

Based on the preliminary drawings, it is understood a monopole communications tower will be constructed at the referenced site. The structure loads will be provided by the tower manufacturer.

2) SITE EXPLORATION

The field exploration included the performance of one soil test boring (B-1) to the auger refusal depth of 9 feet (bgs) at the approximate centerline of the proposed monopole tower. The boring was performed by an ATV mounted drill rig using continuous flight hollow stem augers to advance the hole. Split-spoon samples and Standard Penetration Resistance Values (N-values) were obtained in accordance with ASTM D 1586 at a frequency of 4 samples to auger refusal.

The Split-spoon samples were transported to the TEP laboratory where they were classified by a Geotechnical Engineer in general accordance with the Unified Soil Classification System (USCS), using visual-manual identification procedures (ASTM D 2488).

Diamond-bit core drilling procedures were used to help determine the character and continuity of the rock in boring B-1. The core drilling procedures were in accordance with ASTM Specification D-2113. Rock core samples of the materials penetrated were protected and retained in a swivel-mounted inner tube of the core barrel. Upon completion of the drill run, the core barrel was brought to the surface and samples removed and placed in standard boxes. The samples were classified by a Geotechnical Engineer and the "Recovery" and "Rock Quality Designation" were determined.

The "Recovery" is the ratio of the sample length obtained to the length drilled, expressed as a percent. The "Rock Quality Designation" (RQD) is the percent of the recovered rock samples in lengths of four or more inches, compared to the total length of the core run. This designation is generally applied to samples of NWX size (2-1/8 inch diameter) or larger and to samples described as moderately hard or harder. The percent recovery and RQD are related to rock soundness and continuity. Generalized rock descriptions, percent recovery, and the RQD value are shown on the boring log.

A Boring Location Plan showing the approximate boring location, a Boring Log presenting the subsurface information obtained and a brief guide to interpreting the boring log are included in the Appendix.

3) SITE CONDITIONS

The site is located at 5730 Rockwood Drive in Catlettsburg, Boyd County, Kentucky. The proposed tower and compound are to be located on a ridge in a wooded area. The ground topography is sloping.



4) SUBSURFACE CONDITIONS

The following description of subsurface conditions is brief and general. For more detailed information, the individual Boring Log contained in Appendix B - Boring Log may be consulted.

4.1) Soil

The USCS classification of the materials encountered in the boring include CL and weathered siltstone. The Standard Penetration Resistance ("N" Values) recorded in the materials ranged from 45 blows per foot of penetration to 50 blows per 2 inches of penetration.

4.2) Rock

Weathered siltstone was encountered at a depth of 3.5 feet (bgs) in the boring. Refusal of auger advancement was encountered at a depth of 9 feet (bgs) in the boring.

4.3) Subsurface Water

Subsurface water was not encountered in the boring at the time of drilling. It should be noted the subsurface water level will fluctuate during the year, due to seasonal variations and construction activity in the area.

4.4) Frost

The TIA frost depth for Boyd County Kentucky is 30 inches.



5) TOWER FOUNDATION DESIGN

Based on the boring data, it is the opinion of TEP that a pier extending to a single large mat foundation can be used to support the new tower. The following presents TEP's conclusions and recommendations regarding the foundation type.

5.1) Shallow Foundation

The foundation should bear a minimum of 2.5 feet below the ground surface to penetrate the frost depth and with sufficient depth to withstand the overturning of the tower. To resist the overturning moment, the weight of the concrete and any soil directly above the foundation can be used. A friction factor of 0.35 can be utilized at this depth. The values are based on the current ground surface elevation.

Table 1A – Shallow Foundation Analysis Parameters – Boring B-1

Depth		Soil	Static Bearing ¹ (psf)	Cohesion ^{2,3} (psf)	Friction Angle ² (degrees)	Effective Unit Weight (pcf)
Top	Bottom					
0	3.5	CL	12825	4500	-	118
3.5	6	Siltstone ⁴	18875	10000	35	130
6	8.5	Siltstone ⁴	19775	10000	35	130
8.5	9	Siltstone ⁴	20725	10000	35	130
9	14	Siltstone ⁴	20900	10000	35	130

Notes:

- 1) The bearing values provided are net allowable with a minimum factor of safety of 2 with anticipated settlement less than 1 inch. Bearing may be increased by 1/3 for transient loading (e.g. wind or earthquake loading)
- 2) These values should be considered ultimate soil parameters
- 3) In cases where the shear failure is likely to develop along planes of discontinuity or through highly fractured rock masses cohesion cannot be relied upon to provide resistance to failure
- 4) Rock cores could not be extracted and/or rock quality was not sufficient from these layers for unconfined compressive strength tests. Without unconfined compressive strength tests, soil parameters for rock/weathered rock cannot be determined. To provide strength parameters these layers are being evaluated as weathered siltstone

Table 1B – Rock Parameters – Boring B-1

Depth		Rock	Recovery (%)	Rock Quality Designation (%)	Unconfined Compressive Strength (psi)	Grout/Rock ^{1,2} Bond Stress (psi)	Effective Unit Weight (pcf)
Top	Bottom						
9	14	Siltstone	52	0	n/a	n/a	130

Notes:

- 1) These values should be considered ultimate rock parameters. A minimum factor of safety of 4 should be utilized
- 2) The rock encountered is not considered competent, see section 5.2 for design recommendations



5.2) Rock Anchor Foundations

A rock anchor foundation cannot be utilized at the reference site. Competent rock was not encountered at the time of the exploration. Rock competency is typically estimated based on compressive strength of the intact rock, RQD value, joint spacing, condition of the joints, and ground water conditions.

6) SOIL RESISTIVITY

Soil resistivity was performed at the TEP laboratory in accordance with ASTM G187-05 (Standard Test Method for Measurement of Soil Resistivity Using the Two Electrode Soil Box Method). Test results indicated a result of 35,500 ohms/cm.



7) CONSTRUCTION CONSIDERATIONS - SHALLOW FOUNDATION

7.1) Excavation

The boring data indicates excavation to the expected subgrade level for the shallow foundation will extend through clay and weathered siltstone. A large tracked excavator with rock teeth and/or a pneumatic hammer may be necessary to remove the materials with some difficulty. TEP anticipates the depth to the surface of the weathered rock will vary outside of the boring location. Boulders and bedrock outcroppings are common to this geographic region and may also be encountered in the excavation area.

Excavations should be sloped or shored in accordance with local, state and federal regulations, including OSHA (29 CFR Part 1926) excavation trench safety standards. It is the responsibility of the contractor for site safety. This information is provided as a service and under no circumstance should TEP be assumed responsible for construction site safety.

7.2) Foundation Evaluation/Subgrade Preparation

After excavation to the design elevation for the footing, the materials should be evaluated by a Geotechnical Engineer or a representative of the Geotechnical Engineer prior to reinforcement and concrete placement. This evaluation should include probing, shallow hand auger borings and dynamic cone penetrometer testing (ASTM STP-399) to help verify that suitable residual material lies directly under the foundation and to determine the need for any undercut and replacement of unsuitable materials. Loose surficial material should be compacted in the excavation prior to reinforcement and concrete placement to stabilize surface soil that may have become loose during the excavation process. TEP recommends a 6-inch layer of compacted crushed stone be placed just after excavation to aid in surface stability.

7.3) Fill Placement and Compaction

Backfill materials placed above the shallow foundation to the design subgrade elevation should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. To be considered for use, backfill materials should have a maximum dry density of at least 100 pounds per cubic foot as determined by standard Proctor (ASTM D 698), a Liquid Limit no greater than 40, a Plasticity Index no greater than 20, a maximum particle size of 4 inches, and 20 percent or less of the material having a particle size between 2 and 4 inches. Because small handheld or walk-behind compaction equipment will most likely be used, backfill should be placed in thin horizontal lifts not exceeding 6 inches (loose).

Fill placement should be monitored by a qualified Materials Technician working under the direction of a Geotechnical Engineer. In addition to the visual evaluation, a sufficient amount of in-place field density tests should be conducted to confirm the required compaction is being attained.

7.4) Reuse of Excavated Soil

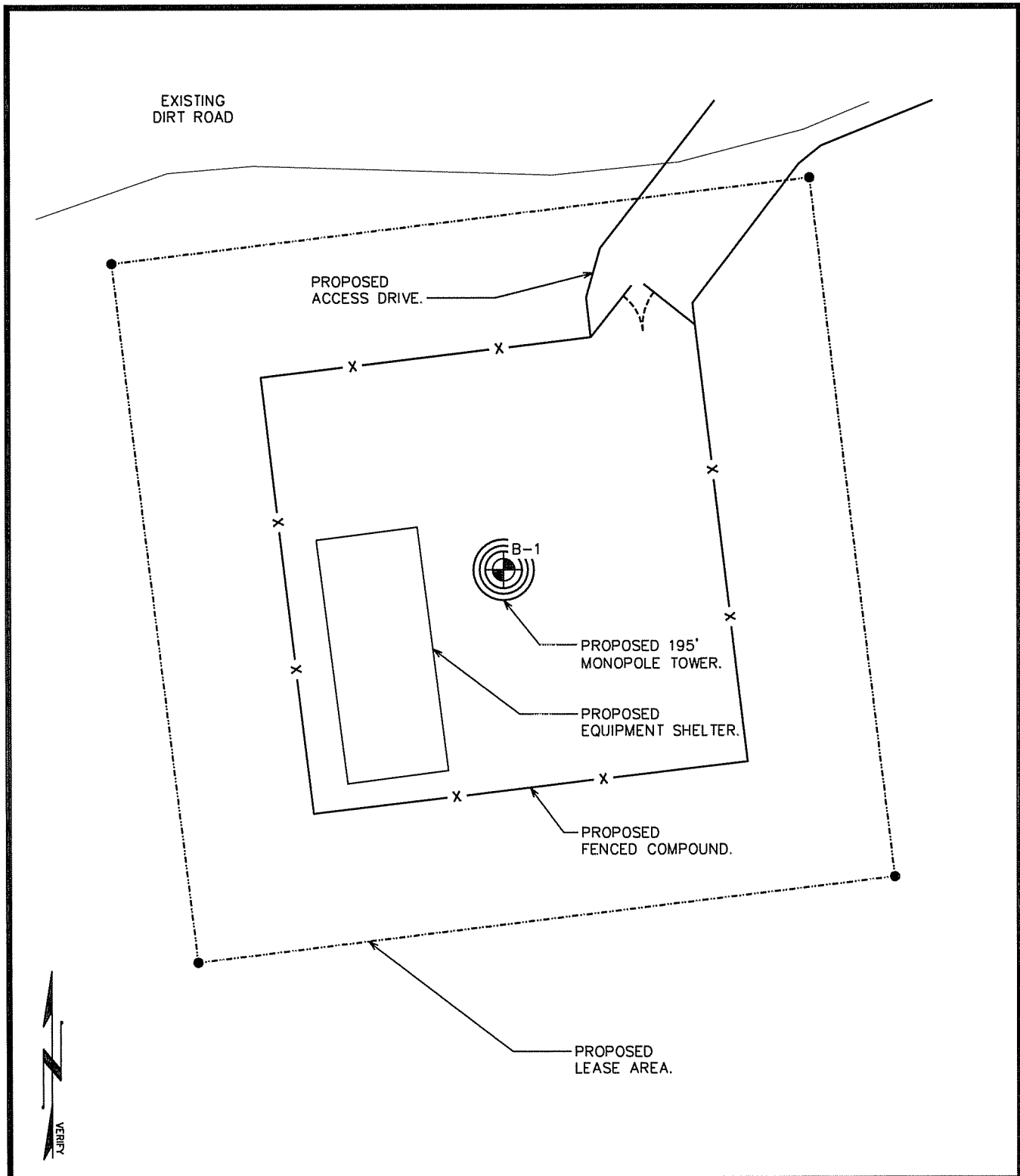
The clay and siltstone (ML) that meets the above referenced criteria can be utilized as backfill based on dry soil and site conditions at the time of construction.

If variability in the subsurface materials is encountered, a representative of the Geotechnical Engineer should verify that the design parameters are valid during construction. Modification to the design values presented above may be required in the field.



APPENDIX A
BORING LAYOUT





BORING LAYOUT

SCALE: N.T.S.

PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 (919) 661-6351
 www.tepgroup.net

PREPARED FOR:

GTP
 1200 PEACHTREE STREET, 114
 ATLANTA, GA 30309
 OFFICE (404) 962-5548

PROJECT INFORMATION:

HURRICANE ROAD
SITE #: KY-5006
 5730 ROCKWOOD DRIVE
 CATLETTSBURG, KY 41129
 (BOYD COUNTY)

REVISION: 0
 TEP JOB #: 112956.10
 SHEET NUMBER:

C-1

APPENDIX B
BORING LOG



Project: KY-5006 Hurricane Road
 Project Location: Catlettsburg, Kentucky
 Project Number: 112956.10

Key to Log of Boring

Sheet 1 of 1

Elevation, feet	Depth, feet	Sample Type	Sample Number	Sampling Resistance, blows/foot	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS			
1	2	3	4	5	6	7	8	9	10			
<p>COLUMN DESCRIPTIONS</p> <p>1 Elevation, feet: Elevation (MSL, feet)</p> <p>2 Depth, feet: Depth in feet below the ground surface.</p> <p>3 Sample Type: Type of soil sample collected at the depth interval shown.</p> <p>4 Sample Number: Sample identification number.</p> <p>5 Sampling Resistance, blows/foot: Number of blows to advance driven sampler foot (or distance shown) beyond seating interval using the hammer identified on the boring log.</p>								<p>6 Relative Consistency: Relative consistency of the subsurface material.</p> <p>7 USCS Symbol: USCS symbol of the subsurface material.</p> <p>8 Graphic Log: Graphic depiction of the subsurface material encountered.</p> <p>9 MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text.</p> <p>10 REMARKS AND OTHER TESTS: Comments and observations regarding drilling or sampling made by driller or field personnel.</p>				
<p>FIELD AND LABORATORY TEST ABBREVIATIONS</p> <p>CHEM: Chemical tests to assess corrosivity COMP: Compaction test CONS: One-dimensional consolidation test LL: Liquid Limit, percent PI: Plasticity Index, percent</p>								<p>SA: Sieve analysis (percent passing No. 200 Sieve) UC: Unconfined compressive strength test, Qu, in ksf WA: Wash sieve (percent passing No. 200 Sieve)</p>				
<p>TYPICAL MATERIAL GRAPHIC SYMBOLS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> Well graded GRAVEL (GW) Poorly graded GRAVEL (GP) Well graded GRAVEL with Silt (GW-GM) Well graded GRAVEL with Clay (GW-GC) Poorly graded GRAVEL with Silt (GP-GM) Poorly graded GRAVEL with Clay (GP-GC) Silty GRAVEL (GM) Clayey GRAVEL (GC) Well graded SAND (SW) Poorly graded SAND (SP) Well graded SAND with Silt (SW-SM) </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> Well graded SAND with Clay (SW-SC) Poorly graded SAND with Silt (SP-SM) Poorly graded SAND with Clay (SP-SC) Silty SAND (SM) Clayey SAND (SC) SILT, SILT w/SAND, SANDY SILT (ML) Lean CLAY, CLAY w/SAND, SANDY CLAY (CL) SILT, SILT w/SAND, SANDY SILT (MH) Fat CLAY, CLAY w/SAND, SANDY CLAY (CH) SILT, SILT with SAND, SANDY SILT (ML-MH) Lean-Fat CLAY, CLAY w/SAND, SANDY CLAY (CL-CH) </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> SILTY CLAY (CL-ML) Lean CLAY/PEAT (CL-OL) Fat CLAY/SILT (CH-MH) Fat CLAY/PEAT (CH-OH) Silty SAND to Sandy SILT (SM-ML) Silty SAND to Sandy SILT (SM-MH) Clayey SAND to Sandy CLAY (SC-CL) Clayey SAND to Sandy CLAY (SC-CH) SILT to CLAY (CL/ML) Silty to Clayey SAND (SC/SM) </td> </tr> </table>								<ul style="list-style-type: none"> Well graded GRAVEL (GW) Poorly graded GRAVEL (GP) Well graded GRAVEL with Silt (GW-GM) Well graded GRAVEL with Clay (GW-GC) Poorly graded GRAVEL with Silt (GP-GM) Poorly graded GRAVEL with Clay (GP-GC) Silty GRAVEL (GM) Clayey GRAVEL (GC) Well graded SAND (SW) Poorly graded SAND (SP) Well graded SAND with Silt (SW-SM) 	<ul style="list-style-type: none"> Well graded SAND with Clay (SW-SC) Poorly graded SAND with Silt (SP-SM) Poorly graded SAND with Clay (SP-SC) Silty SAND (SM) Clayey SAND (SC) SILT, SILT w/SAND, SANDY SILT (ML) Lean CLAY, CLAY w/SAND, SANDY CLAY (CL) SILT, SILT w/SAND, SANDY SILT (MH) Fat CLAY, CLAY w/SAND, SANDY CLAY (CH) SILT, SILT with SAND, SANDY SILT (ML-MH) Lean-Fat CLAY, CLAY w/SAND, SANDY CLAY (CL-CH) 	<ul style="list-style-type: none"> SILTY CLAY (CL-ML) Lean CLAY/PEAT (CL-OL) Fat CLAY/SILT (CH-MH) Fat CLAY/PEAT (CH-OH) Silty SAND to Sandy SILT (SM-ML) Silty SAND to Sandy SILT (SM-MH) Clayey SAND to Sandy CLAY (SC-CL) Clayey SAND to Sandy CLAY (SC-CH) SILT to CLAY (CL/ML) Silty to Clayey SAND (SC/SM) 		
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<p>TYPICAL SAMPLER GRAPHIC SYMBOLS</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> 2-inch-OD unlined split spoon (SPT) 2.5-inch-OD Modified California w/ brass liners 3-inch-OD California w/ brass rings </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> Shelby Tube (Thin-walled, fixed head) Grab Sample Bulk Sample </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> Pitcher Sample Other sampler </td> </tr> </table>								<ul style="list-style-type: none"> 2-inch-OD unlined split spoon (SPT) 2.5-inch-OD Modified California w/ brass liners 3-inch-OD California w/ brass rings 	<ul style="list-style-type: none"> Shelby Tube (Thin-walled, fixed head) Grab Sample Bulk Sample 	<ul style="list-style-type: none"> Pitcher Sample Other sampler 		
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<p>OTHER GRAPHIC SYMBOLS</p> <ul style="list-style-type: none"> Water level (at time of drilling, ATD) Water level (after waiting a given time) Minor change in material properties within a stratum Inferred or gradational contact between strata Queried contact between strata 												
<p>GENERAL NOTES</p> <ol style="list-style-type: none"> Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests. Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times. 												

P:\12956_KY-5006 Hurricane Road\Geotech\Boring B-1 KY-5006.bas [Basic Boring Log.tbl]

Figure 1

Project: KY-5006 Hurricane Road
Project Location: Catlettsburg, Kentucky
Project Number: 112956.10

Log of Boring B-1
 Sheet 1 of 1

Date(s) Drilled	August 11, 2011	Logged By	Cory Bauer	Checked By	John Longest
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth of Borehole	14 feet bgs
Drill Rig Type	ATV	Drilling Contractor	Geo Drill, Inc.	Approximate Surface Elevation	754 feet AMSL
Groundwater Level and Date Measured	Not Encountered ATD	Sampling Method(s)	SPT, Other	Hammer Data	140 lb, 30 in drop, Hammer
Borehole Backfill	Cuttings	Location	Approximate centerline to the proposed monopole centerline		

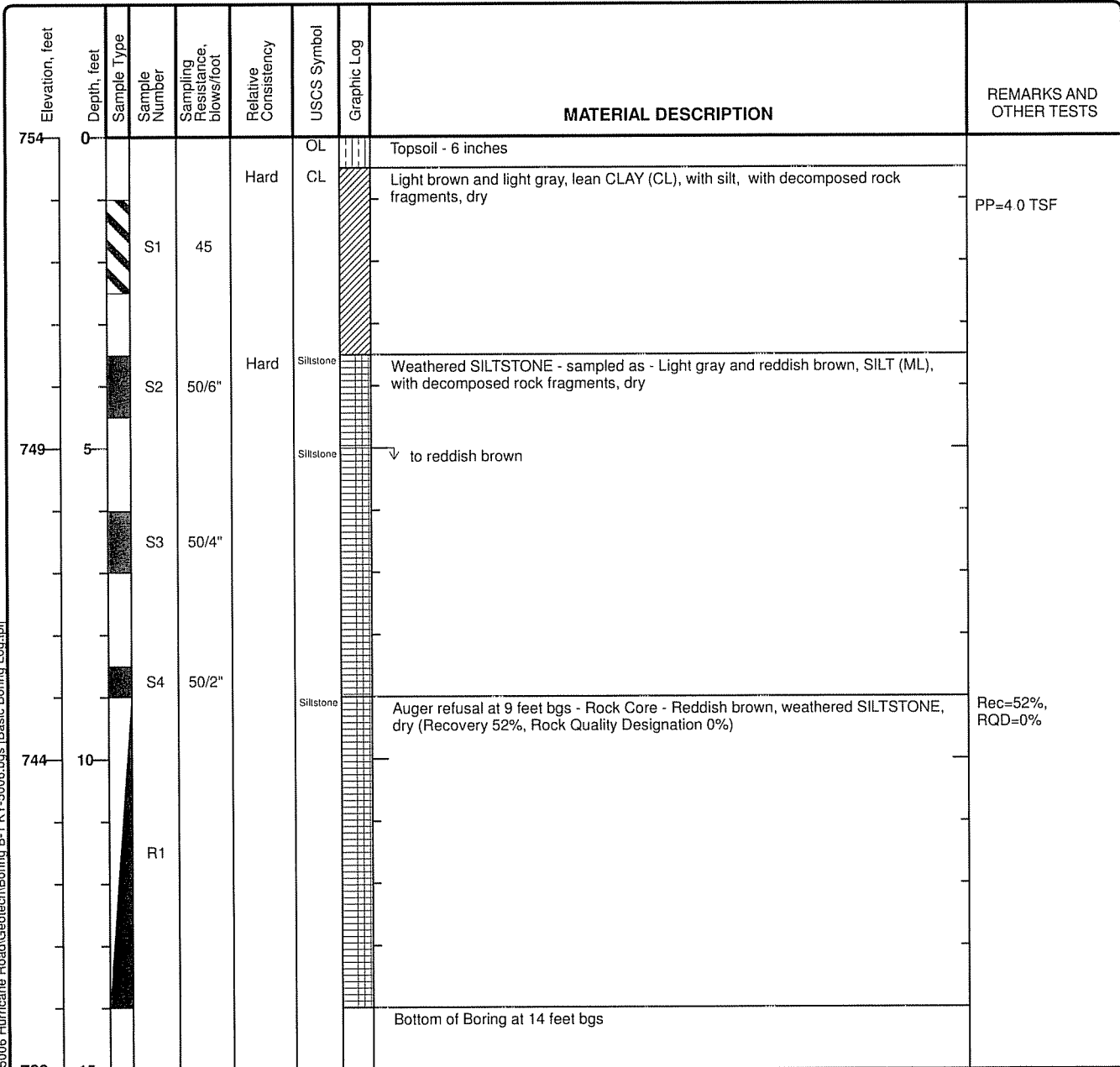


Figure 1

P:\12956 KY-5006 Hurricane Road\Geotech\Boring B-1 KY-5006.bgs [Basic Boring Log.plt]



AT&T Mobility
4801 Cox Road
Suite 300
Glen Allen, VA 23060

T: 804.290.5030
F: 804.290.5055
www.att.com

May, 23th 2011

To Whom It May Concern:

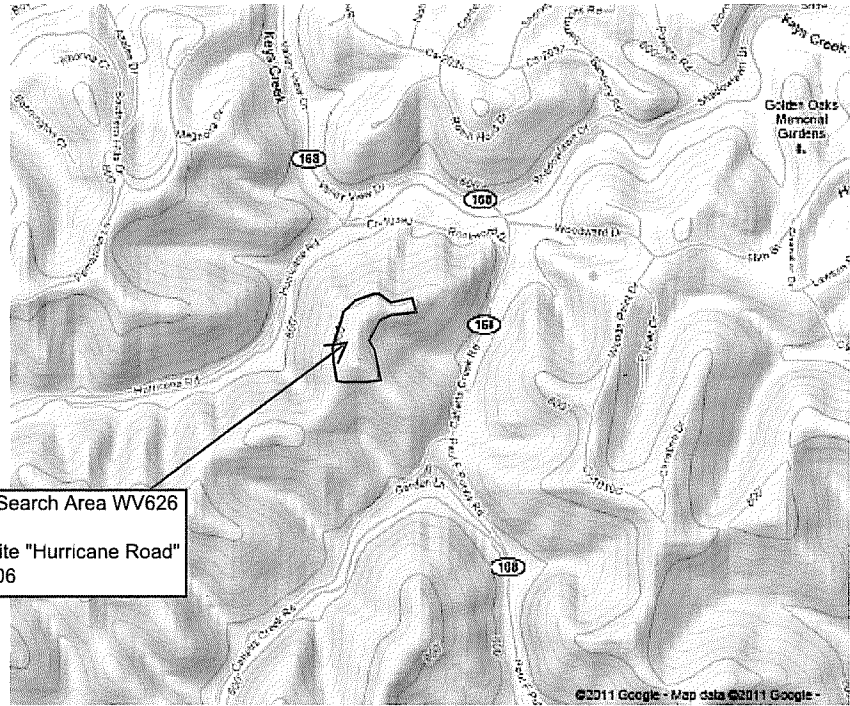
Re: AT&T Mobility Tower –Boyd County

Dear Sir or Madam:

This letter is to state the need for the proposed AT&T site called WV626 (Global Tower Partners' KY-5006 Hurricane Road), to be located at 5756 Rockwood Drive in Catlettsburg in Boyd County, KY. The WV626 site is necessary to improve coverage in Boyd County in the areas of Ashland, Catlettsburg, KY, and along Skyline Dr and Johnsons Ford Rd. There is currently no reliable service in this area. Our closest site is 2.9 miles away and cannot provide dominant service with call quality for customers. Customer in the area are experience high dropped calls and poor call quality or no service areas. With the addition of this site, the customers in these areas of Boyd County will be provided with reliable communications, improved in-building coverage, and more access to emergency 911 service.

Christian D. La Tendresse
RF Design Engineer

F



Search Area WV626

Site "Hurricane Road"
106

G



Federal Aviation Administration

<< OE/AAA

Notice Criteria Tool

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference CFR Title 14 Part 77.9.

You must file with the FAA at least 45 days prior to construction if:

- * your structure will exceed 200ft above ground level
- * your structure will be in proximity to an airport and will exceed the slope ratio
- * your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...)
- * your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Policy
- * your structure will be in an instrument approach area and might exceed part 77 Subpart C
- * your structure will be on an airport or heliport

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the Air Traffic Areas of Responsibility map for Off Airport construction, or contact the FAA Airports Region / District Office for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

Latitude:	<input type="text" value="38"/> Deg <input type="text" value="37"/> M <input type="text" value="59.17"/> S N
Longitude:	<input type="text" value="82"/> Deg <input type="text" value="54"/> M <input type="text" value="26.37"/> S W
Horizontal Datum:	NAD83
Site Elevation (SE):	<input type="text" value="849"/> (nearest foot)
Structure Height (AGL):	<input type="text" value="199"/> (nearest foot)
Traverseway:	No Traverseway (Additional height is added to certain structures under 77.9(c))
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes

Results

You do not exceed Notice Criteria

Matt Chastain

From: Dustin Billman <dbillman@bluewavedeployment.com>
Sent: Wednesday, June 15, 2011 3:53 PM
To: Matt Chastain
Subject: FW: Hurrigan Rd KACZ Filing

Importance: Low

For the file

Dustin Billman
Blue Wave Deployment
8401 Shelbyville Rd., Suite 104
Louisville, KY 40222
502-645-0262
fax 502-849-0449

From: Houlihan, John (KYTC) [<mailto:John.Houlihan@ky.gov>]
Sent: Wednesday, June 15, 2011 11:24 AM
To: Dustin Billman
Subject: RE: Hurrigan Rd KACZ Filing
Importance: Low

The above subject does not require a permit from the Kentucky Airport Zoning Commission. The antenna does not exceed any of the following criteria:

602 KAR 50:030. Jurisdiction of the Kentucky Airport Zoning Commission.

RELATES TO: KRS 183.861, 183.865, 183.867, 183.870

STATUTORY AUTHORITY: KRS 183.861

NECESSITY, FUNCTION, AND CONFORMITY: KRS 183.867 specifies that the commission has jurisdiction over zoning for all public use and military airports. This administrative regulation defines the areas over which the Kentucky Airport Zoning Commission has jurisdiction for the purpose of zoning in accordance with KRS Chapter 183 and specifics when the owner or person who has control over a structure which encroaches on the jurisdiction of the Kentucky Airport Zoning Commission shall apply for a permit.

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

(1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use and military airport with at least one (1) runway 3,200 feet or more in length; or

(2) Fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in actual length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use and military airport as depicted on Airport Zoning Maps approved by the Kentucky Airport Zoning Commission.

Section 4. The commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above ground level.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the commission has jurisdiction shall apply for a permit from the commission in accordance with 602 KAR 50:090. (KAV-9-1; 1 Ky.R. 807; eff. 5-14-75; Am. 2 Ky.R. 306; eff. 3-10-76; 5 Ky.R. 599; eff. 3-7-79; 10 Ky.R. 445; eff. 1-4-84; 14 Ky.R. 267; eff. 9-10-87; 19 Ky.R. 800; eff. 11-4-92; 27 Ky.R. 2228; 2774; eff. 4-9-2001.)

Please keep this email for your records. Thank you.

Kentucky Airport Zoning Commission
John Houlihan, Administrator
90 Airport Road, Building 400
Frankfort, KY 40601
Desk 502.564.0310
Cell 502.330.3955

<http://transportation.ky.gov/aviation/kyzoning.html>

CONFIDENTIALITY NOTICE: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail or call (502) 564-0310 and destroy all copies of the original message.

From: Dustin Billman [mailto:dbillman@bluewavedeployment.com]
Sent: Monday, June 13, 2011 3:42 PM
To: Houlihan, John (KYTC)
Cc: 'Matt Chastain'
Subject: Hurrican Rd KACZ Filing (OOJ)

John,

I have attached a KAZC application for a proposed Global Tower Partners tower site referred to as Hurricane Rd. Please advise of any questions or concerns.

Hurricane Rd.
38 26 03.17
82 37 48.54
Ground Elevation 754
Structure Height 199
AMSL 953
Nearest Airport is HTS – Huntington Tri-State Airport 5.25 Miles Southeast

(M C B R A Y E R)
McBrayer, McGinnis, Leslie & Kirkland, PLLC

ATTORNEYS AT LAW

W. BRENT RICE
BRICE@MMLK.COM

201 EAST MAIN STREET, SUITE 1000
LEXINGTON, KENTUCKY 40507
(859) 231-8780 EXT. 115
FAX: (859) 231-6518

September 1, 2011

Hon. William C. Stevens
Courthouse
2800 Louisa Street
PO Box 423
Catlettsburg, KY 41129-0423

RE: **Public Notice – Public Service Commission of Kentucky**
Case No. 2011-00354
Hurricane Road Site (KY-5006)

Dear Judge Stevens:

Global Tower Assets, LLC and New Cingular Wireless PCS, LLC are applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new wireless communications facility located 5730 Rockwood Drive, Catlettsburg, Boyd County Kentucky. A map showing the location is attached. The proposed facility will include a 195' monopole tower, plus related ground facilities.

You have a right to submit comments regarding the proposed construction to the Commission or to request intervention in the Commission's proceedings on this application.

Your comment and request for intervention should be addressed to: Kentucky Public Service Commission, Executive Director, 211 Sower Blvd., PO Box 615, Frankfort, Kentucky 40602. Please refer to **Case No. 2011-00354** in any correspondence.

Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

WBR/dkw
Enclosure

Global Tower Assets, LLC and New Cingular Wireless PCS, LLC

PSC Case Number 2011-00354/Hurricane Road Site (KY-5006)

Property Owners

Vernon and Constance Saunders
5370 Rockwood Drive
Catlettsburg, KY 41129

Timothy J. and Daisy K. Kemper
6132 State Route 168
Catlettsburg, KY 41129

Lewis R. II and Connie Sue Dillon
PO Box 444
Catlettsburg, KY 41129

Eastern Kentucky Lumber &
Development Co.
PO Box 1699
Catlettsburg, KY 41129

Kathleen D. and Charles R. Smallwood
5732 Rockwood Drive
Catlettsburg, KY 41129

Michelle Lanham
3417 Rockwood Drive
Catlettsburg, KY 41129

Christopher P. Daily
3425 Rockwood Drive
Catlettsburg, KY 41129

Kassandra G. Kitchen
5726 Rockwood Drive
Catlettsburg, KY 41129

Paul A. and Esther Rearden
5026 Hurricane Road
Catlettsburg, KY 41129

Gregory J. and Marguerite Schlomer
3801 Hurricane Road
Catlettsburg, KY 41129

Paul A. and Elizabeth A. Delaney
5095 Hurricane Road
Catlettsburg, KY 41129

Bonnie J. Ross
5729 Rockwood Drive
Catlettsburg, KY 41129

Kentucky Power Company
Ashland, KY 41105

Edward M. and Delores Keyser
5921 Rockwood Drive
Catlettsburg, KY 41129

CD Farms, LLC
2708 Panola Street
Catlettsburg, KY 41129

Charles C. Meade, II
PO Box 656
Catlettsburg, KY 41129

(M C B R A Y E R)
McBrayer, McGinnis, Leslie & Kirkland, PLLC

ATTORNEYS AT LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Vernon and Constance Saunders
5370 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

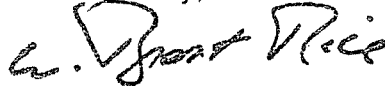
Dear Property Owner:

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The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter. Your initial communication the Commission must be received by the Commission within 20 days of the date of this letter as shown above.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to **Case No. 2011-00354** in your correspondence.

Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

WBR/dkw
Enclosure

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McBrayer, McGinnis, Leslie & Kirkland, PLLC

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September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Timothy J. and Daisy K. Kemper
6132 State Route 168
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

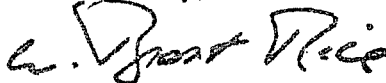
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W. Brent Rice
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Enclosure

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September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Lewis R. II and Connie Sue Dillon
PO Box 444
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

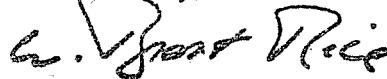
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Lexington, Kentucky 40507
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FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Eastern Kentucky Lumber & Development Co.
PO Box 1699
Catlettsburg, KY 41129

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Case No. 2011-00354
Hurricane Road Site (KY-5006)**

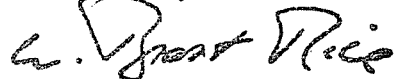
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WBR/dkw
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(M C B R A Y E R)

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brice@mmlk.com

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Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Kathleen D. and Charles R. Smallwood
5732 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

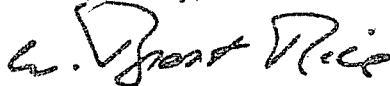
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Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC
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September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Michelle Lanham
3417 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

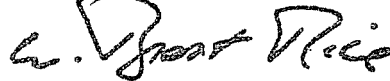
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Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

WBR/dkw
Enclosure

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W. BRENT RICE
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201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Christopher P. Daily
3425 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

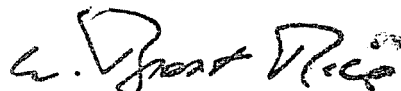
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Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

WBR/dkw
Enclosure

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brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Kassandra G. Kitchen
5726 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

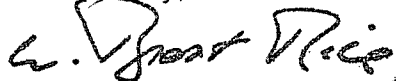
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W. Brent Rice
Counsel for Global Tower Assets, LLC
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201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Paul A. and Esther Rearden
5026 Hurricane Road
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky**
Case No. 2011-00354
Hurricane Road Site (KY-5006)

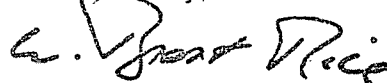
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W. Brent Rice
Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

WBR/dkw
Enclosure

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201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Gregory J. and Marguerite Schlomer
3801 Hurricane Road
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky**
Case No. 2011-00354
Hurricane Road Site (KY-5006)

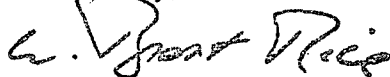
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Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission of Kentucky, P.O. Box 615, Frankfort, KY 40602. Please refer to **Case No. 2011-00354** in your correspondence.

Sincerely,



W. Brent Rice
Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

WBR/dkw
Enclosure

(M C B R A Y E R)
McBrayer, McGinnis, Leslie & Kirkland, PLLC

ATTORNEYS AT LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Paul A. and Elizabeth A. Delaney
5095 Hurricane Road
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

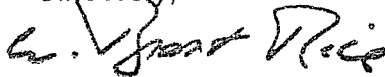
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Lexington, Kentucky 40507
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September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Bonnie J. Ross
5729 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

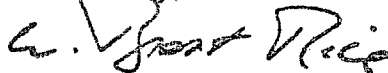
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W. Brent Rice
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Lexington, Kentucky 40507
(859) 231-8780
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September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Kentucky Power Company
Ashland, KY 41105

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

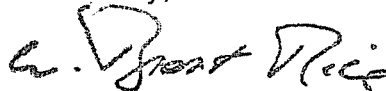
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Counsel for Global Tower Assets, LLC
and New Cingular Wireless PCS, LLC

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201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Edward M. and Delores Keyser
5921 Rockwood Drive
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

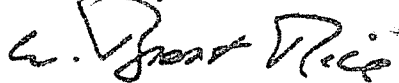
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Counsel for Global Tower Assets, LLC
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201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

CD Farms, LLC
2708 Panola Street
Catlettsburg, KY 41129

RE: **Public Notice – Public Service Commission of Kentucky
Case No. 2011-00354
Hurricane Road Site (KY-5006)**

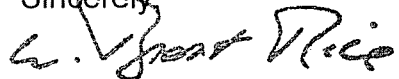
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W. Brent Rice
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ATTORNEYS AT LAW

W. BRENT RICE
brice@mmlk.com

201 E. Main Street, Suite 1000
Lexington, Kentucky 40507
(859) 231-8780
FAX (859) 231-6518

September 1, 2011

VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Charles C. Meade, II
PO Box 656
Catlettsburg, KY 41129

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Hurricane Road Site (KY-5006)**

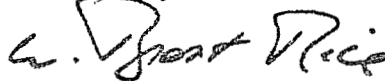
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W. Brent Rice
Counsel for Global Tower Assets, LLC
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Enclosure



LANDLORD:
 Vernon R. and Constance E. Saunders
 5730 Rockwood Dr.
 Catlettsburg, KY 41129

TENANT:
 Global Tower Assets, LLC
 750 Park of Commerce Blvd.
 Suite 300
 Boca Raton, FL 33487-3612
 Site # & name: KY-5006 Hurricane Road

LEASE AGREEMENT

THIS LEASE AGREEMENT ("Lease") is made this 22nd day of June, 2011 by and between, Vernon R. Saunders and Constance E. Saunders, husband and wife, (the "Landlord"), whose address is 5730 Rockwood Dr., Catlettsburg, KY 41129, and Global Tower Assets, LLC, a Delaware limited liability company (the "Tenant"), whose address is 750 Park of Commerce Boulevard, Suite 300, Boca Raton, Florida 33487-3612.

WHEREAS, the Landlord owns certain real property located the County of Boyd, in the State of Kentucky, that is more particularly described or depicted in attached **Exhibit 1** (the "Property"); and,

WHEREAS, the Tenant desires to lease from Landlord a certain portion of the Property, more particularly described or depicted in attached **Exhibit 2** (the "Premises").

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree:

1. RIGHT TO LEASE.

(a) Landlord grants to Tenant right to lease a portion of the Property measuring approximately 80' x 80' (6400 SF) square feet as described on attached **Exhibit 2**, together with unrestricted access for Tenant's uses from the nearest public right-of-way along the Property to the Premises as described on the attached **Exhibit 2** (collectively, the "Premises").

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

(c) In consideration of Landlord granting Tenant the Testing Period, Tenant agrees to pay Landlord the sum of _____) within thirty (30) business days of the full execution of this Agreement. The Testing Period will be for an initial term of one (1) year (the "Initial Testing Period") and may be renewed by Tenant for one (1) additional one (1) year period ("Renewal Testing Period") upon written notification to Landlord and the payment of an additional _____ no later than ten (10) days prior to the expiration date of the Initial Testing Period or current Renewal Testing Period.

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

2. TERM.

(a) This Lease shall commence on date Tenant begins construction at the site (the "Commencement Date"), which shall be confirmed in writing from Tenant to Landlord. Unless extended or sooner terminated as herein provided, the term shall be for a period of one hundred twenty (120) months following the Commencement Date ("Initial Term").

(b) Tenant shall have the option to extend the term of this Lease for four (4) successive additional periods of sixty (60) months each (each a "Renewal Term"). Each Renewal Term shall commence automatically, unless Tenant delivers notice to Landlord of its intent not to renew, such notice to be delivered not less than thirty (30) days prior to the end of the then-current term.

3. RENT.

(a) Tenant shall pay rent to Landlord beginning at Commencement Date a monthly rental payment of _____ ("Rent"), on or before the fifth (5th) day of each calendar month in advance. Payments will be made via electronic funds transfer ("EFT") directly to Landlord's bank account unless otherwise directed. Rent will be prorated for any partial month. The initial Rent payment will be forwarded by Tenant to Landlord within thirty (30) days from Commencement Date.

(b) In year one (1) of each Renewal Term, the monthly Rent will increase by fifteen percent (15%) over the Rent paid during the previous Term.

4. TAXES. Landlord shall pay when due all taxes and all other fees and assessments attributable to the Property and Premises. In the event that Landlord fails to pay when due any taxes affecting the Premises or the Easement, Tenant shall have the right but not the obligation to pay such taxes and deduct the full amount of the taxes paid by Tenant on Landlord's behalf from future installments of Rent. Tenant will pay any property tax increase directly attributable to Tenants personal property.

5. USE.

(a) The Premises are being leased for the purpose of erecting, installing, operating and maintaining radio and communications towers, transmitting and receiving equipment, antennas, dishes, mounting structures, buildings, and related equipment ("Communications Facility"). Tenant may make any improvement, alteration or modification to the Premises as are deemed appropriate by Tenant. Tenant shall have the right to clear the Premises of any trees, vegetation, or undergrowth which, in Tenant's sole opinion, interferes with Tenant's use of the Premises for the intended purposes. Tenant shall have the exclusive right to install upon the Premises communications towers, buildings, equipment, antennas, dishes, fencing, and other accessories related thereto, and to alter, supplement, and/or modify same as may be necessary.

(b) Landlord grants Tenant the right to clear all trees, undergrowth, or other obstructions and to trim, cut and keep trimmed and cut all tree limbs, which may interfere with or fall upon the Communications Facility or Premises. Landlord grants Tenant a non-exclusive easement in, over, across and through other real property owned by Landlord as reasonably required for construction, installation, maintenance, and operation of the Communication Facilities. In the event that the tower to be constructed by Tenant on the Premises is a guyed tower, Landlord also grants Tenant an easement in, over, across and through Landlord's real property for the installation and maintenance of and reasonable access to the guy wires and guy wire anchors. Tenant shall be entitled to sublease and/or sublicense the Premises, including any communications tower located thereon. At all times during the term of this Lease, Tenant, and its guests, agents, customers, lessees, and assigns shall have the unrestricted, exclusive right to use, and shall have free access to, the Premises seven (7) days a week, twenty-four (24) hours a day. Tenant shall have the exclusive right to sublease or grant licenses to use the radio tower or any structure or equipment on the

Premises, but no such sublease or license shall relieve or release Tenant from its obligations under this Lease. If at any time during the term of this Lease, the Federal Aviation Administration, Federal Communications Commission, or other governmental agency changes its regulations and requirements, or otherwise takes any action, the result of which inhibits Tenant's use of the Premises, or any communications tower located thereon, for the purposes originally intended by Tenant, or if technological changes render Tenant's intended use of the Premises obsolete or impractical, or if Tenant otherwise determines, in its sole and absolute discretion, with or without cause, that the Premises is no longer suitable or desirable for Tenant's intended use and/or purposes, Tenant shall have the right to terminate this Lease Agreement upon written notice to Landlord.

6. ACCESS AND UTILITIES. Landlord for itself, its successors and assigns, hereby grants and conveys unto Tenant, its customers, employees, agents, invitees, successors and assigns a nonexclusive easement for ingress and egress, as well as for the construction, installation, operation and maintenance of overhead and underground electric and other utility facilities (including wires, poles, guys, cables, conduits and appurtenant equipment), with the right to reconstruct, improve, add to, enlarge, change and remove such facilities, over, across and through any easement for the benefit of and access to the Premises, subject to the terms and conditions herein set forth. The rights granted to Tenant herein shall also include the right to partially assign its rights hereunder to any public or private utility company or authority to facilitate the uses contemplated herein, and all other rights and privileges reasonably necessary for Tenant's safe and efficient use and enjoyment of the easement for the purposes described above.

7. EQUIPMENT, FIXTURES AND SIGNS. All improvements, equipment or other property attached to or otherwise brought onto the Premises shall at all times be the personal property of Tenant and/or its subtenants and licensees. Tenant or its customers shall have the right to erect, install, maintain, and operate on the Premises such equipment, structures, fixtures, signs, and personal property as Tenant may deem necessary or appropriate, and such property, including the equipment, structures, fixtures, signs, and personal property currently on the Premises, shall not be deemed to be part of the Premises, but shall remain the property of Tenant or its customers. At any time during the term of this Lease Agreement Tenant or its customers shall have the right, but not the obligation, to remove their equipment, structures, fixtures, signs, and personal property from the Premises. Upon termination of this agreement property shall be returned to original state at current grade with natural wear and tear accepted. Upon termination, at Tenant's option, Tenant may transfer ownership of their personal property to Landlord in lieu of removing and returning Premises to original state.

8. ASSIGNMENT AND SUBLEASE. Tenant may assign this Lease to any person or entity at any time without the prior written consent of Landlord. After delivery by Tenant to Landlord of an instrument of assumption by an assignee that assumes all of the obligations of Tenant under this Lease, Tenant will be relieved of all liability hereunder. Tenant shall be entitled to sublease or grant licenses to use the Premises and/or the radio tower or any structure or equipment on the Premises without the prior written consent of Landlord, but no such sublease or license shall relieve or release Tenant from its obligations under the Lease. Landlord may assign this Lease, in whole or in part, to any person or entity (a) who or which acquires fee title to the Premises and/or (b) who or which agrees to be subject to and bound by all provisions of this Lease. Except for the foregoing, assignment of this Lease by Landlord must be approved by Tenant, in Tenant's sole discretion.

9. WARRANTIES AND REPRESENTATIONS.

(a) Landlord warrants and represents that it is the owner in fee simple of the Premises, free and clear of all liens and encumbrances except as to those which may have been disclosed to Tenant, in writing prior to the execution hereof, and that it alone has full right to Lease the Premises for the term set out herein. Landlord further represents and warrants that Tenant, on paying the rent and performing its obligations hereunder, shall peaceably and quietly hold and enjoy the Premises for the term of this Lease.

(b) Landlord shall promptly pay all taxes and assessments against the Premises when due and shall avoid any delinquencies with respect thereto and shall protect and indemnify Tenant for any lack of such payment. Landlord shall also pay promptly, when due, any other amounts or sums due and owing with respect to its ownership and operation of the Premises, including, without limitation, judgments, liens, mortgage payments and other similar

encumbrances. If Landlord fails to make any payments required under this Lease, such as the payment of taxes and assessments, or breaches any other obligation or covenant under this Lease, Tenant may (without obligation), after providing ten (10) days written notice to Landlord, make such payment or perform such obligation on behalf of Landlord. The full amount of any costs so incurred by Tenant (including any attorneys' fees incurred in connection with Tenant performing such obligation) shall be paid by Landlord to Tenant with interest at the statutory rate thereon.

(c) Landlord does hereby authorize Tenant and its employees, representatives, agents and consultants to prepare, execute, submit, file and present on behalf of Landlord building, permitting, zoning or land-use applications with the appropriate local, state and/or federal agencies necessary to obtain land use changes, special exceptions, zoning variances, conditional use permits, special use permits, administrative permits, construction permits, operation permits and/or building permits. Landlord understands that any such applications and/or the satisfaction of any requirements thereof may require Landlord's cooperation, which Landlord hereby agrees to provide.

(d) Landlord shall not do or permit anything that will interfere with or negate any special use permit or approval pertaining to the Premises or cause any tower on the Premises to be in nonconformance with applicable local, state, or federal laws. Landlord shall cooperate with Tenant in any effort by Tenant to obtain certificates, permits, licenses and other approvals that may be required by any governmental authorities. Landlord agrees to execute any necessary applications, consents or other documents as may be reasonably necessary for Tenant to apply for and obtain the proper zoning approvals required to use and maintain the Premises and the tower site.

(e) Landlord has complied with all, and will continue to comply with environmental, health, and safety laws with respect to the Premises, and no action, suit, proceeding, hearing, investigation, charge, complaint, claim, demand, or notice has been filed or commenced, or received by Landlord regarding the Premises alleging any failure to so comply. Without limiting the generality of the preceding sentence, Landlord and the Premises are in compliance with all environmental, health, and safety laws. No asbestos-containing thermal insulation or products containing PCB, formaldehyde, chlordane, or heptachlor or other hazardous substances, materials, or wastes have been placed, stored, disposed, or discharged on, under or about the Premises by Landlord or, to the knowledge of Landlord, by any prior owner or user of the Premises, or any other person. To the knowledge of Landlord, there has been no release of or contamination by hazardous materials, substances or wastes on the Premises. Landlord represents and warrants that Tenant shall not be liable for any hazardous materials, substances, or wastes on, under, or about the Premises prior to Tenant's occupancy of the Premises, and Tenant shall not be liable for any violation or environmental law related to the Premises prior to Tenant's occupancy of the Premises.

(f) All utilities required for the operation of the Tenant's improvements enter the Premises through adjoining public streets or, if they pass through an adjoining private tract, do so in accordance with valid public easements. All utilities are installed and operating and all installation and connection charges have been paid in full.

(g) Landlord has no knowledge of any fact or condition that could result in the termination or reduction of the current access from the Premises to existing highways and roads, or to sewer or other utility services serving the Premises.

(h) The Premises abuts on and has direct vehicular access to a public road, or has access to a public road via a permanent, irrevocable, appurtenant easement benefiting the parcel of real property, and access to the property is provided by paved public right-of-way with adequate curb cuts available.

(i) With respect to the Premises, except as disclosed in writing to Tenant prior to the execution hereof: there currently exist no licenses, sublicenses, or other agreements, written or oral, granting to any party or parties the right of use or occupancy of any portion of the of Premises; there are no outstanding options or rights of first refusal to purchase the Premises or any portion thereof or interest therein; and there are no parties (other than Landlord) in possession of the Premises.

(j) It is intended that the legal description of the Premises accurately reflect an "as-built" survey of any existing communications tower and accordingly the parties agree that, if any part of such tower, buildings, roadways, utilities, guy wires or anchors related to the communications tower located on the Premises is located beyond the legal description of the Premises or any easements specified in the Lease, the Lease is hereby amended to provide that the Premises includes the existing location of any such improvements as part of the Premises demised in the Lease, to the extent that such improvements are located on real property owned by Landlord.

(k) Landlord hereby agrees to indemnify, defend, and hold harmless Tenant and its officers, directors, shareholders, agents, and attorneys for, from, and against all damages asserted against or incurred by any of them by reason of or resulting from a breach by Landlord of any representation, warranty, or covenant of Landlord contained herein or in any agreement executed pursuant hereto.

10. HOLD OVER TENANCY. Should Tenant or any assignee, sublessee or licensee of Tenant hold over the Premises or any part thereof after the expiration of the term set forth herein, such holdover shall constitute and be construed as a tenancy from month-to-month only, but otherwise upon the same terms and conditions.

11. INDEMNITIES. The parties agree to indemnify, defend and hold harmless the other party, its parent company or other affiliates, successors, assigns, officers, directors, shareholders, agents and employees (collectively, "Indemnified Persons"), from and against all claims and liabilities (including reasonable attorneys' and fees court costs) caused by or arising out of (i) such party's breach of any of its obligations, covenants, or warranties contained herein, or (ii) such party's acts or omissions with regard to the Lease. However, in the event of an Indemnified Person's contributory negligence or other fault, the Indemnified Person shall not be indemnified hereunder to the extent that the Indemnified Person's negligence or other fault caused such claim or liability.

12. WAIVERS

(a) Landlord hereby waives any and all lien rights it may have, statutory or otherwise, in and to the tower facilities or any portion thereof, regardless of whether or not such is deemed real or personal property under applicable laws. Landlord will not assert any claim whatsoever against Tenant for loss of anticipatory profits or any other indirect, special, incidental or consequential damages incurred by Landlord as a result of the construction, maintenance, operation or use of the Premises by Tenant.

(b) EACH PARTY HERETO WAIVES ANY AND ALL CLAIMS AGAINST THE OTHER FOR ANY LOSS, COST, DAMAGE, EXPENSE, INJURY OR OTHER LIABILITY WHICH IS IN THE NATURE OF INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES WHICH ARE SUFFERED OR INCURRED AS THE RESULT OF, ARISE OUT OF, OR ARE IN ANY WAY CONNECTED TO THE PERFORMANCE OF THE OBLIGATIONS UNDER THIS LEASE.

13. INSURANCE.

(a) Tenant shall insure against property damage and bodily injury arising by reason of occurrences on or about the Premises in the amount of not less than \$1,000,000. The insurance coverage provided for herein may be maintained pursuant to master policies of insurance covering other tower locations of Tenant and its corporate affiliates. All insurance policies required to be maintained by Tenant hereunder shall be with responsible insurance companies, authorized to do business in the state where the Premises are located if required by law, and shall provide for cancellation only upon 10 days' prior written notice to Landlord. Tenant shall evidence such insurance coverage by delivering to Landlord, if requested, a copy of all such policies or, at Tenant's option, certificates in lieu thereof issued by the insurance companies underwriting such risks.

(b) Landlord shall carry, at no cost to Tenant, general property fire, hazard and casualty insurance appropriate for Landlord's improvements on Landlord's Property, and in such amounts to cause the replacement/restoration of the Property (excluding Tenant's improvements and personal property) in the event of casualty.

14. INTERFERENCE. During the term of this Lease, Landlord, its successors and assigns, will not grant any ground lease, license, or easement with respect to any property adjacent to the Premises: (a) for any of the uses contemplated in paragraph 5 herein; or (b) if such lease, license, or easement would detrimentally impact Tenant's communications facilities, or the use thereof. Landlord shall not cause or permit the construction of radio or communications towers on the Premises or on any other property of Landlord adjacent or contiguous to or in the immediate vicinity of the Premises, except for towers constructed by Tenant.

15. RIGHT OF FIRST REFUSAL. If during the term of this Lease, Landlord receives a bona fide arm's length offer, that Landlord is willing to accept, from any third party to purchase (in whole or in part) (i) Landlord's interest

under this Lease; (ii) Landlord's rights to receive rents under the terms of this Lease; (iii) the Premises, and/or to purchase an easement or any other interest in the land underneath the Premises or underneath areas of access and or utility service to the Premises, (the "Purchase Offer"), the Landlord shall serve a notice (the "Transfer Notice") upon Tenant. The forgoing rights, interest, and property described in (i), (ii), (iii), and (iv) herein shall collectively be referred to as the "Interest". The Transfer Notice shall set forth the exact terms of the Purchase Offer so received, together with a copy of such offer, and shall state the Landlord's desire to sell the Interest on such terms and conditions. Thereafter, the Tenant shall have the right of first refusal ("Right of First Refusal") and option to so lease or purchase the same. If the Tenant desires to exercise its option to purchase the Interest, it shall give notice (the "Counter Notice") to that effect to the Landlord within thirty (30) days after receipt of the Transfer Notice by Tenant. The closing of the purchase and sale of the Interest pursuant to this option shall occur at the time set forth in the Purchase Offer, provided that Tenant shall not be required to Close before the fifteenth (15th) day following the date of the Counter Notice. The Tenant's failure to give a timely Counter Notice (or its notice of refusal to purchase) shall be deemed a waiver of its rights to exercise its right of first refusal to accept the Offer but shall not be deemed a waiver of its right of first refusal with respect to any modification to the Purchase Offer or and future Purchase Offers.

16. SECURITY. The parties recognize and agree that Tenant shall have the right to safeguard and protect its improvements located upon or within the Premises. Consequently, Tenant may elect, at its expense, to construct such enclosures and/or fences as Tenant reasonably determines to be necessary to secure its improvements, including the tower(s), building(s), guy anchors, and related improvements situated upon the Premises. Tenant may also undertake any other appropriate means to restrict access to its communications towers, buildings, guy anchors, guy wires, and related improvements.

17. FORCE MAJEURE. The time for performance by Landlord or Tenant of any term, provision, or covenant of this Agreement shall be deemed extended by time lost due to delays resulting from acts of God, strikes, civil riots, floods, material or labor restrictions by governmental authority, and any other cause not within the control of Landlord or Tenant, as the case may be.

18. CONDEMNATION. Notwithstanding any provision of the Lease to the contrary, in the event of condemnation of the Premises, the Landlord and Tenant shall be entitled to separate awards with respect to the Premises, in the amount determined by the court conducting such condemnation proceedings based upon the Landlord's and Tenant's respective interests in the Premises. If a separate condemnation award is not determined by such court, Landlord shall permit Tenant to participate in the allocation and distribution of the award. In no event shall the condemnation award to Landlord exceed the unimproved value of the Premises, without taking into account the improvements located thereon, and in no event shall the Lease be terminated or modified (other than an abatement of rent) due to a casualty or condemnation without the prior written consent of Lender.

19. DEFAULT. The failure of Tenant or Landlord to perform any of the covenants of this Agreement shall constitute a default. The non-defaulting party shall give the other written notice of such default, and the defaulting party shall cure such default within thirty (30) days after receipt of such notice. In the event any such default cannot reasonably be cured within such thirty (30) day period, if the defaulting party shall proceed promptly after the receipt of such notice to cure such default, and shall pursue curing such default with due diligence, the time for curing shall be extended for such period of time as may be necessary to complete such curing, however, in no event shall this extension of time be in excess of sixty (60) days, unless agreed upon by the non-defaulting party.

20. REMEDIES. Should the defaulting party fail to cure a default under this Agreement, the other party shall have all remedies available either at law or in equity, including the right to terminate this Lease. In the event Landlord elects to terminate this Lease due to a default by Tenant, it shall continue to honor all sublicense commitments made by Tenant through the expiration of the term of any such commitment, it being intended hereby that each such commitment shall survive the early termination of this Lease. Upon early termination by Landlord any rental

payment from such sublicense commitment shall revert to Landlord until the expiration of the term of any such commitment.

21. ATTORNEY'S FEES. If there is any legal proceeding between Landlord or Tenant arising from or based on this Agreement, the unsuccessful party to such action or proceeding shall pay to the prevailing party all costs and expenses, including reasonable attorney's fees and disbursements, incurred by such prevailing party in such action or proceeding and in any appeal in connection therewith. If such prevailing party recovers a judgment in any such action, proceeding or appeal, such costs, expenses and attorney's fees and disbursements shall be included in and as a part of such judgment.

22. PRIOR AGREEMENTS. The parties hereby covenant, recognize and agree that the terms and provisions of this Lease shall constitute the sole embodiment of the arrangement between the parties with regard to the Premises, and that all other written or unwritten agreements, contracts, or leases by and between the parties with regard to the Premises are hereby terminated, superceded and replaced by the terms hereof.

23. LENDER'S CONTINUATION RIGHTS.

(a) Landlord agrees to recognize the leases/licenses of all subtenants and sublicensees and will permit each of them to remain in occupancy of its premises notwithstanding any default hereunder by Tenant so long as each such respective subtenant or sublicensee is not in default under the lease/license covering its premises. Landlord agrees to execute such documents as any such subtenant and/or sublicensee might reasonably require, including customary subordination, non-disturbance and attornment agreements and/or Landlord recognition agreements, to further memorialize the foregoing, and further agrees to use reasonable efforts to also cause its lenders to similarly acknowledge, in writing, subtenant/sublicensee's right to continue to occupy its premises as provided above.

(b) Landlord consents to the granting by Tenant of a lien and security interest in Tenant's interest in the Lease and all of Tenant's personal property and fixtures attached to the real property described herein, and furthermore consents to the exercise by Tenant's mortgagee of its rights of foreclosure with respect to its lien and security interest. Landlord agrees to recognize Tenant's Lender (as hereinafter defined) as Tenant hereunder upon any such exercise by Lender of its rights of foreclosure.

(c) Landlord hereby agrees to give Lender written notice of any breach or default of the terms of the Lease, within fifteen days after the occurrence thereof, at such address as is specified by Lender. Landlord further agrees that no default under the Lease shall be deemed to have occurred unless such notice to Lender is also given and that, in the event of any such breach or default under the terms of the Lease, Lender shall have the right, to the same extent, for the same period and with the same effect, as the Tenant, plus an additional ninety days after any applicable grace period to cure or correct any such default whether the same shall consist of the failure to pay rent or the failure to perform, and Landlord agrees to accept such payment or performance on the part of the Lender as though the same had been made or performed by the Tenant. Landlord agrees that it shall not exercise its right to terminate the Lease or any of its other rights under the Lease upon breach or default of the terms of the Lease without so affording Lender the foregoing notice and periods to cure any default or breach under the Lease.

(d) Landlord hereby (i) agrees to subordinate any lien or security interest which it may have which arises by law or pursuant to the Lease to the lien and security interest of Lender in the collateral securing all indebtedness at any time owed by Tenant to the Lender (the "Collateral"), and (ii) furthermore agrees that upon an event of default under the loan documents between Tenant and Lender or the Lease, Lender shall be fully entitled to exercise its rights against the Collateral prior to the exercise by the Landlord of any rights which it may have therein, including, but not limited to, entry upon the Premises and removal of the Collateral free and clear of the Landlord's lien and security interest.

(e) Landlord acknowledges that nothing contained herein shall be deemed or construed to obligate the Lender to take any action hereunder, or to perform or discharge any obligation, duty or liability of Tenant under the Lease.

(f) During the term of this Lease, Landlord covenants and agrees that it will not grant, create, or suffer any claim, lien, encumbrance, easement, restriction, or other charge or exception to title to the Premises (an "Encumbrance") without the prior written consent of Tenant; provided, however, that it is expressly agreed and understood that Landlord may subject its interest in the Premises to a first mortgage lien if its lender shall agree for

itself and its lender, its successors, and assigns, by written instrument in form and substance reasonably satisfactory to Tenant: (1) to be bound by the terms of this Lease; (2) not to disturb Tenant's use or possession of the Premises in the event of a foreclosure of such lien or encumbrance so long as Tenant is not in default hereunder; and (3) not to join Tenant as a party defendant in any such foreclosure proceeding taken by it. With regard to any existing Encumbrance, Landlord covenants and agrees that, upon the request of Tenant, it shall use its best efforts to cause the holder thereof to execute a customary *Subordination Non-disturbance and Attornment Agreement* providing to Tenant the rights afforded to Tenant above with regard to future first mortgage liens.

24. NOTICE/RIGHTS TO CURE. Supplementing the provisions of Section 23 hereof:

(a) The Tenant shall have the right from time to time to mortgage or otherwise encumber the Tenant's interest in this Lease; provided, however, in no event shall there be more than one such mortgage or encumbrance outstanding at any one time. If the Tenant shall so mortgage (each a "Mortgage") the Tenant's interest in this Lease to a lender (such lender, and any successor, assign, designee or nominee of such lender, hereinafter a "Lender"), the Tenant or such Lender shall give the Landlord prompt notice of such Mortgage and furnish the Landlord with a complete and correct copy of such Mortgage, certified as such by the Tenant or such Lender, together with the name and address of such Lender. After receipt of the foregoing, the Landlord shall give to such Lender, at the address of such Lender set forth in such notice, and otherwise in the manner provided by Section 27 of this Lease, a copy of each notice of default hereunder at the same time as, and whenever, any such notice of default shall thereafter be given by the Landlord to the Tenant, and no such notice of default by the Landlord shall be deemed to have been duly given to the Tenant unless and until a copy thereof shall have been so given to Lender. Notices to Lender under this Section 24 shall be deemed given on the date received by Lender. Lender (i) shall thereupon have a period of ninety (90) days more than given to the Tenant in each instance in the case of a default in the payment of rent and in the case of any other default, for remedying the default or causing the same to be remedied; provided, however, if any non-rent default is not capable of remedy by Lender within such ninety (90) day period, Lender shall have such ninety (90) day period to commence curing the default and such greater period of time as is necessary to complete same with due diligence, and (ii) shall, within such periods and otherwise as herein provided, have the right to remedy such default or cause the same to be remedied. The Landlord shall accept performance by a Lender of any covenant, condition or agreement on the Tenant's part to be performed hereunder with the same force and effect as though performed by the Tenant. Notwithstanding anything to the contrary contained herein, if the default is of such a nature that it cannot be cured by Lender (for example, the bankruptcy of the Tenant), such event shall not be a default under this Lease.

(b) Notwithstanding any of the provisions of this Lease to the contrary, no default by the Tenant shall be deemed to exist as long as Lender within the periods set forth in paragraph (a) above shall have delivered to the Landlord its written agreement to take the action described in clause (i) or (ii) herein and thereafter, in good faith, shall have commenced promptly either (1) to cure the default and to prosecute the same to completion, or (2) if possession of the Premises is required in order to cure the default, to institute foreclosure proceedings and obtain possession directly or through a receiver, and to prosecute such proceedings with diligence and continuity and, upon obtaining such possession, commence promptly to cure the default and to prosecute the same to completion with diligence and continuity, provided that during the period in which such action is being taken (and any foreclosure proceedings are pending), all of the other obligations of the Tenant under this Lease, to the extent they are reasonably susceptible to being performed by Lender, are being performed. However, at any time after the delivery of the aforementioned agreement, Lender may notify the Landlord, in writing, that it has relinquished possession of the Premises or that it will not institute foreclosure proceedings or, if such proceedings have been commenced, that it has discontinued or will discontinue them, and in such event, Lender shall have no further liability under such agreement from and after the date it delivers such notice to the Landlord, and, thereupon, the Landlord shall have the unrestricted right to terminate this Lease and to take any other action it deems appropriate by reason of any default, and upon any such termination the provisions of Section 24 below shall apply. Notwithstanding anything to the contrary contained herein, provided such Lender shall have otherwise complied with the provisions of this Section 23, such Lender shall have no obligation to cure any defaults which are not susceptible to being cured by such Lender.

(c) Except as provided in Section 24(a) above, no Lender shall become liable under the provisions of this Lease or any lease executed pursuant to Section 24 hereof unless and until such time as it becomes, and then only for as long as it remains, the owner of the leasehold estate credited hereby or thereby. This Lease shall not be amended or modified without the consent of any Lender which has delivered the notice provided for in Section 24(a) hereof. In the event that a Lender shall become the owner of such leasehold estate, such Lender shall not be bound by any modification or amendment of the Lease made subsequent to the date of the Mortgage and delivery to the Landlord of the notice provided in Section 24(a) hereof and prior to its acquisition of such interest unless Lender shall have consented to such modification or amendment at the time it was made or at the time of such acquisition.

25. RIGHT TO NEW LEASE.

(a) In the case of termination of this Lease for any reason, or in the event this Lease is rejected or disaffirmed pursuant to any bankruptcy, insolvency or other law affecting creditor's rights, the Landlord shall give prompt notice thereof to a Lender whose name and address the Landlord has received pursuant to notice made in compliance with the provisions of Section 24(a), at the address of such Lender set forth in such notice, and otherwise in the manner provided by Section 27 of this Lease. The Landlord, on written request of such Lender made any time within thirty (30) days after the giving of such notice by the Landlord, shall promptly execute and deliver a new lease of the Premises to Lender or its designee or nominee, for the remainder of the term upon all the covenants, conditions, limitations and agreements contained herein (including, without limitation, options to extend the term of this Lease) except for such provisions which must be modified to reflect such termination, rejection or disaffirmance and the passage of time, provided that such Lender (i) shall pay to the Landlord, simultaneously with the delivery of such new lease, all unpaid rent due under this Lease up to and including the date of the commencement of the term of such new lease and all reasonable expenses, including, without limitation, reasonable attorneys' fees and disbursements and court costs, incurred by the Landlord in connection with the default by the Tenant, the termination of this Lease and the preparation of the new lease, and (ii) shall cure all defaults existing under this Lease which are susceptible to being cured by such Lender promptly and with due diligence after the delivery of such new lease. Notwithstanding anything to the contrary contained herein, provided such Lender shall have otherwise complied with the provisions of this Section 25, such Lender shall have no obligation to cure any defaults which are not susceptible to being cured by such Lender (for example, the bankruptcy of the Tenant).

(b) Any such new lease and the leasehold estate thereby created shall, subject to the same conditions contained in this Lease, continue to maintain the same priority as this Lease with respect to any mortgage, including any fee mortgage, encumbering the Premises or any part thereof or any leasehold interest therein or any other lien, charge or encumbrance thereon whether or not the same shall then be in existence. Any new lease made pursuant to this Section 25 shall be accompanied by a conveyance of the Landlord's interest, if any, to the improvements on the land demised hereby (free of any mortgage or other lien, charge or encumbrance created or suffered to be created by the Landlord but not any mortgage or other lien, charge or encumbrance created or suffered to be created by the Tenant) for a term of years equal in duration to the term of the new lease as the same may be extended pursuant to the provisions of said new lease, subject, however, to any lease of such improvements theretofore made by the Tenant, as landlord, which is then in effect. Concurrently with the execution and delivery of such new lease, the Landlord shall assign to the tenant named therein all of its right, title and interest in and to moneys (including insurance and condemnation proceeds), if any, then held by or payable to the Landlord or any other depository which the Tenant would have been entitled to receive but for the termination of this Lease, and any sums then held by or payable to the Landlord or such depository shall, subject to the provisions of Section 26 hereof, be deemed to be held by or payable to it as the Landlord or depository under the new lease.

(c) Upon the execution and delivery of a new lease under this Section 25, all subleases which theretofore have been assigned to, or made by, the Landlord shall be assigned and transferred, without recourse, by the Landlord to the tenant named in such new lease. Between the date of termination of this Lease and the date of execution of the new lease, if a Lender shall have requested such new lease as provided in Section 25(a), the Landlord shall not cancel any subleases or accept any cancellation, termination or surrender thereof (unless such termination shall be effected as a matter of law on the termination of this Lease) or enter into new subleases without the consent of Lender.

(d) For so long as Lender shall have the right to enter into a new lease with the Landlord pursuant to this Section 25, the Landlord shall not enter into a new lease of the Premises with any person or entity other than Lender, without the prior written consent of Lender.

26. ADDITIONAL PROVISIONS.

(a) The parties hereto agree that (1) the Tenant is in possession of the Premises notwithstanding the fact that the Tenant has subleased, or may in the future sublease, certain of the improvements thereon to third parties and (2) the requirements of Section 365(h) of Title 11 of the United States Code (the "Bankruptcy Code") with respect to the Tenant's possession of the leasehold under this Lease are satisfied. Accordingly, the right of the Tenant to remain in possession of the leasehold under this Lease shall continue notwithstanding any rejection of this Lease in any bankruptcy proceeding involving the Landlord, or any other actions by any party in such a proceeding. This provision, while included in this Lease, has been separately negotiated and shall constitute a separate contract between the parties as well as a part of this Lease. The provisions of this Section 26(a) are for the benefit of the Tenant and its assigns, including, without limitation, Lender. The parties hereto also agree that Lender is a party in interest and shall have the right to appear as a party in any proceeding brought under any bankruptcy law or under any other law which may affect this Lease.

(b) The provisions of Sections 24, 25, and 26 hereof shall survive the termination, rejection or disaffirmance of this Lease and shall continue in full force and effect thereafter to the same extent as if Sections 24, 25 and 26 hereof were a separate and independent contract made by the Landlord, the Tenant and Lender and, from the effective date of such termination, rejection or disaffirmance of this Lease to the date of execution and delivery of such new lease, Lender may use and enjoy the leasehold estate created by this Lease without hindrance by the Landlord. The aforesaid agreement of the Landlord to enter into a new lease with Lender shall be deemed a separate agreement between the Landlord and such Lender, separate and apart from this Lease as well as a part of this Lease, and shall be unaffected by the rejection of this Lease in any bankruptcy proceeding by any party.

(c) The Landlord shall have no right and expressly waives any right arising under applicable law, in and to the rentals payable to the Tenant under any lease of the improvements on the land demised hereunder, if any, which rentals may be assigned by the Tenant to Lender.

(d) If a Mortgage is in effect, (i) this Lease shall not be modified or amended by the parties hereto, or terminated or surrendered by the Tenant, nor shall the Landlord accept any such termination or surrender of this Lease by the Tenant, without the prior written consent of Lender and (ii) the Landlord shall not have the right to terminate this Lease in the event of a casualty or condemnation without the prior written consent of Lender.

(e) The provisions of Sections 24, 25 and 26 hereof are for the benefit of Lender and may be relied upon and shall be enforceable by Lender as if Lender were a party to this Lease.

(f) This Lease may be assigned by the Tenant (and Lender if and when it becomes the tenant hereunder) and any space in any of the improvements on the Premises may be sublet by the Tenant (and Lender if and when it becomes the tenant hereunder), each without the consent of the Landlord.

(g) This Lease shall have priority over all liens and encumbrances on the fee estate of the Landlord in the Premises or any improvements thereon, including mortgages on the fee estate which were executed prior to the execution of this Lease.

(h) The Landlord shall, within ten days of the request of the Tenant or any Lender or prospective Lender, provide an estoppel certificate as to any matters reasonably requested by the Tenant or Lender.

(i) Lender shall have the right to participate in the adjustment of losses with any insurance company with respect to any damage or destruction of the Premises or any improvements thereon and such Lender shall have the right to supervise and control the receipt and disbursements of all insurance proceeds and shall be entitled to all insurance proceeds pursuant to the terms of the Mortgage, or as the case may be, pursuant to the terms of the loan documents secured by such Mortgage.

(j) Notwithstanding anything to the contrary contained herein, in the event of any taking of all or any part of the Premises, Lender shall have the right to participate in any condemnation proceedings settlement discussions, shall have the right to supervise and control the receipt and disbursement of all condemnation awards and shall be entitled to all condemnation awards which are not used to restore the Premises to be applied to the reduction of the debt secured by the Mortgage; provided, however, that the Landlord shall be entitled to the balance of the award after

payment of the debt secured by the Mortgage in full until the Landlord obtains the portion of the award to which it is entitled under this Lease prior to the insertion of this Section 26(j). In the event of a partial taking, this Lease shall continue and the rent provided in this Lease shall be reduced proportionately, from and after the date of such taking, based upon the percentage of land which is taken; provided, however, if the portion of the land taken is such that the Tenant cannot in its reasonable judgment economically continue its operations on the Premises, the Tenant, with the prior written consent of Lender, shall have the right to terminate this Lease. Upon a taking for a temporary period, this Lease shall continue and the entire award shall be payable to the Tenant, subject to the provisions of the Mortgage, or as the case may be, subject to the provisions of the loan documents secured by such Mortgage.

(k) The right to extend or renew this Lease and any right of first refusal to purchase the Premises may be exercisable by the holder of a Mortgage and, before the expiration of any periods to exercise such a right, the Landlord must provide to Lender at least thirty (30) days prior written notice before the expiration of the right to so extend or renew in order to extinguish Lender's right to so extend, renew or purchase.

(l) Under no circumstances shall the fee estate of the Landlord and the leasehold estate created hereby merge, even though owned by the same party, without the written consent of the holder of a Mortgage.

(m) Notwithstanding any provisions of this Lease to the contrary, so long as a Mortgage is in effect, the Tenant shall have no right to terminate the Lease with respect to any event unless the written approval of Lender holding a Mortgage on the leasehold estate is obtained, including, without limitation, the right to terminate in the event of any damage or condemnation.

27. NOTICES. All notices, requests, claims, demands, and other communications hereunder shall be in writing and may be hand delivered (provided the deliverer provides proof of delivery) or sent by nationally-established overnight courier that provides proof of delivery, or certified or registered mail (postage prepaid, return receipt requested). Notice shall be deemed received on the date of delivery as demonstrated by the receipt of delivery. Notices shall be delivered to a parties at the address below, or to such other address that a party below may provide from time to time:

If to Landlord:

Vernon and Constance Saunders
5730 Rockwood Dr.
Catlettsburg, KY 41129

If to Tenant:

Global Tower Assets, LLC
750 Park of Commerce Blvd.
Suite 300
Boca Raton, FL 33487-3612
Attn: Asset Management
Fax: 561-995-0321
Ref: KY-5006 Hurricane Road

If to Lender:

Toronto Dominion (Texas) LLC
77 King Street West
18th Floor
Toronto, Ontario
Canada M5K 1A2
Attn: GTP Deal Manager
Fax: 416-307-3826

With copy to:

The Bank of New York Mellon
as Indentured Trustee
ABS Structured Finance Services,
101 Barclay Street, Floor 4 West
New York, NY 10286
Attn: Alan Terezian
Fax: 212-815-2493

28. MISCELLANEOUS.

(a) Each party hereto warrants and represents that it has the necessary power and authority to enter into and perform its respective obligations under this agreement.

(b) If any term of this Lease is found to be void or invalid, such invalidity shall not affect the remaining terms of this Lease, which shall continue in full force and effect.

(c) All attached exhibits are hereby incorporated by this reference as if fully set forth herein.

(d) Failure of party to insist on strict performance of any of the conditions or provisions of this Lease, or failure to exercise any of a party's rights hereunder, shall not waive such rights.

(e) This Lease shall be governed by and construed in accordance with the laws of the state in which the Leased Premises are located.

(f) This Lease constitutes the entire Lease and understanding of the parties and supersedes all offers, negotiations and other lease agreements with regard to the Leased Premises. There are no representations or understandings of any kind not set forth herein. Any amendment to this Lease must be in writing and executed by both parties.

(g) This agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, legal representatives, successors and assigns.

(h) A short-form memorandum of this Lease may be recorded at Landlord or Tenant's option in the form as depicted in Exhibit 3 attached hereto.

(i) Tenant will maintain the access road from the public right of way to the Leased Premises.

**[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK,
SIGNATURES BEGIN ON NEXT PAGE]**

IN WITNESS WHEREOF, the parties hereto have executed this Lease as of the date last signed by a party hereto.

WITNESSES:

Cathy Tackett
Name: Cathy Tackett

ANGIE ROARK
Name: Angie Roark

Vanessa Singer
Name: Vanessa Singer

Michael Roark
Name: Michael Roark

LANDLORD:

Vernon R. Saunders and Constance E. Saunders

By: Vernon R. Saunders
Name: Vernon R. Saunders
Date: 6-7-2011

By: Constance E. Saunders
Name: Constance E. Saunders
Date: 060711

WITNESSES:

Kesha DeJesus
Name: Kesha DeJesus

REYNOLDEURANUIL
Name: REYNOLDEURANUIL

TENANT:

Global Tower Assets, LLC
a Delaware limited liability company

By: Bernard A. Borghel
Name: Alexander L. Gellman Bernard A. Borghel
Title: President and COO Senior Vice President
Operations
Date: 6-22-2011



EXHIBIT 1
Description of Parent Tract
Page One of Two

TRACT NO. SEVEN

Lying and being on the South of Rockwood Road and being more particularly described as follows:

BEGINNING at the point where the East property line of C. C. Meade intersects with Rockwood Road, thence South 18 degrees 31 minutes West 530 feet; thence South 89 degrees 05 minutes West 210 feet; thence South 62 degrees 13 minutes West 300 feet; thence going down the hill North 11 degrees 48 minutes West with the line of C. C. Meade 530 feet, more or less to Rockwood Road; thence along the South right-of-way of Rockwood Road 546 feet, more or less, in a southwesterly direction to the property line of Clyde Williams; thence along the property line of Clyde Williams South 34 degrees 12 minutes East a distance of 992.4 feet to a monument on the line of the Eastern Kentucky Lumber and Development Company; thence along the line of Eastern Kentucky Lumber and Development Company South 88 degrees 52 minutes East a distance of 1468 feet, more or less, to the rear of the property line of Frank Riddle; thence along the rear property line of Frank Riddle North 25 degrees East 371.3 feet to the property line of Kenneth Franks; thence North 77 degrees 37 minutes West a distance of 50 feet more or less to the rear corner of the Kenneth Franks property; thence North 23 degrees 30 minutes East a distance of 509 feet; thence in a southeasterly direction along the line of Kenneth Franks 400 feet, more or less, to Kentucky State Route 168; thence along the line of Route 168, 211 feet in a northeasterly direction to the line of property owned by Paul Barnett; thence North 73 degrees 20 minutes East a distance of 200 feet; thence North 18 degrees 35 minutes East 100 feet; thence South 73 degrees 22 minutes East a distance of 200 feet to Kentucky Route 168; thence along the line of Kentucky Route 168, 259 feet, more or less, to the South right-of-way line of Rockwood Road; thence following along the westerly line of Rockwood Road a distance of 1100 feet more or less to the point of beginning.

THERE IS EXCEPTED, and not hereby conveyed, those certain out-conveyances set forth in the following instruments, to-wit:

- 1) Deed dated June 7, 1965, to James E. Adkins and Helen Adkins, (Lots 5, 7, Block "A", Woodland Terrace), of record in Deed Book 404, 417, records aforesaid;
- 2) Restrictions of Block "A", Woodland Terrace, of record in Deed Book 410, Page 271, records aforesaid;
- 3) Deed dated January 17, 1966, to William M. White and Blanche T. White, (Lot 4, Block "A", Woodland Terrace), of record in Deed Book 410, Page 513, records aforesaid;
- 4) Deed dated April 30, 1966, to Larry K. McKenzie and Bonnie L. McKenzie, (Lot 3, Block "A", Woodland Terrace), of record in Deed Book 413, Page 583, records aforesaid;
- 5) Deed dated June 24, 1966, to John James Blair and Burtie Elizabeth Blair, (Lot 9, Block "A", Woodland Terrace), of record in Deed Book 414, Page 276, records aforesaid;
- 6) Deed dated June 23, 1966, to Lornie E. McCormick and Evelyn L. McCormick, (Lot 8, Block "A", Woodland Terrace), of record in Deed Book 414, Page 299, records aforesaid;
- 7) Deed dated July 18, 1966, to David Marusha, (Lot 2, Block "A", Woodland Terrace), of record in Deed Book 415, Page 47, records aforesaid;

EXHIBIT 1
Description of Parent Tract
Page Two of Two

8) Deed dated July 22, 1966, to Chas. E. Moors and Betty K. Moors, (Lot 11, Block "A", Woodland Terrace), of record in Deed Book 415, Page 66, records aforesaid;

9) Deed dated November 13, 1966, to Crawford B. Thompson and Nina M. Thompson, (Lot 1, Block "A", Woodland Terrace), of record in Deed Book 418, Page 17, records aforesaid;

10) Deed dated September 26, 1969, to James Marvin Hill, single, (Lot 10, Block "A", Woodland Terrace), of record in Deed Book 436, Page 181, records aforesaid;

11) Deed dated April 20, 1970, to George C. Stafford and Phyllis L. Stafford, (Lot 6, Block "A", Woodland Terrace), of record in Deed Book 438, Page 464, records aforesaid;

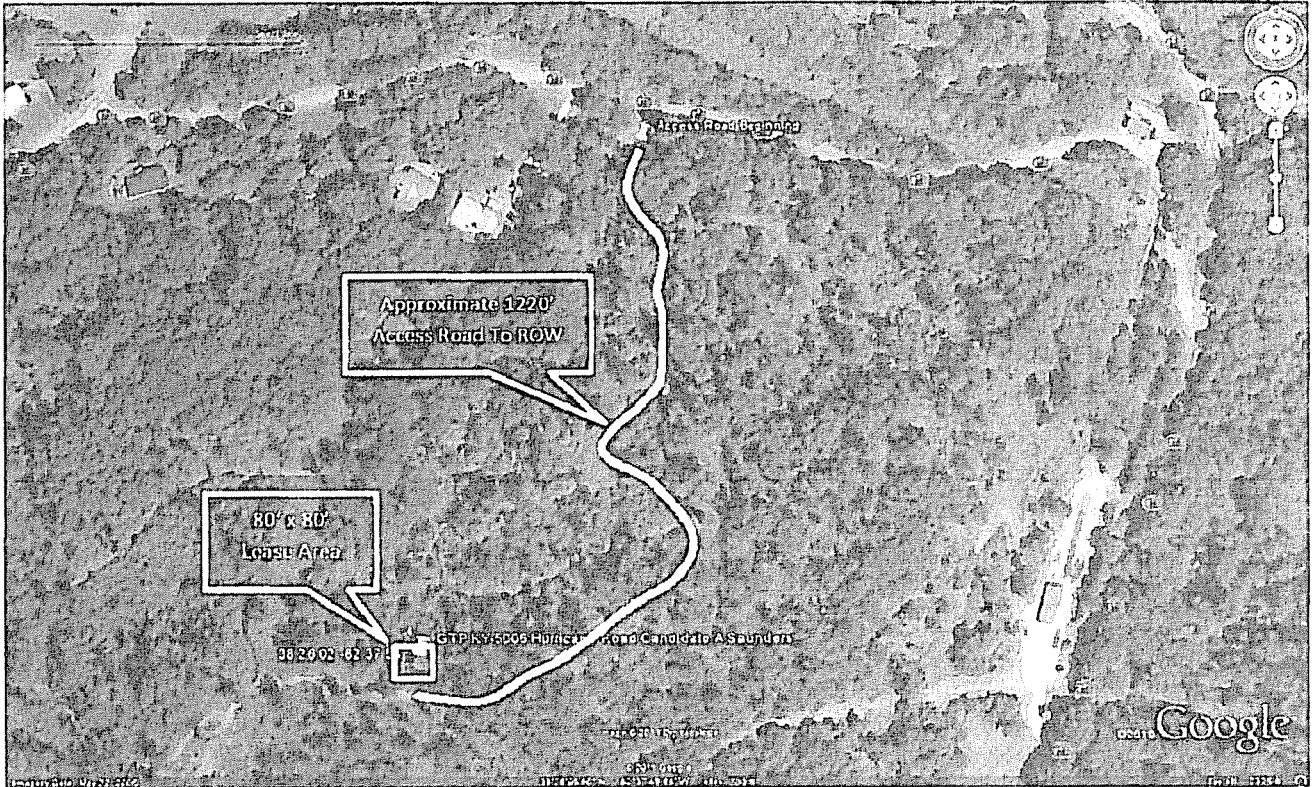
12) Deed dated April 17, 1975, to Ernest M. Scott, widow, (Lots 13 and 14) of record in Deed Book 466, Page 23, records aforesaid.

The real estate conveyed hereby being part of the same real estate conveyed to Woodland Development, Inc., of Boyd County, a Kentucky corporation, by Deed from James E. Adkins and Helen Adkins, his wife, and David Kinzer and Lois Kinzer, his wife, dated October 16, 1970, of record in Deed Book 461, Page 202, Boyd County Clerk's records.

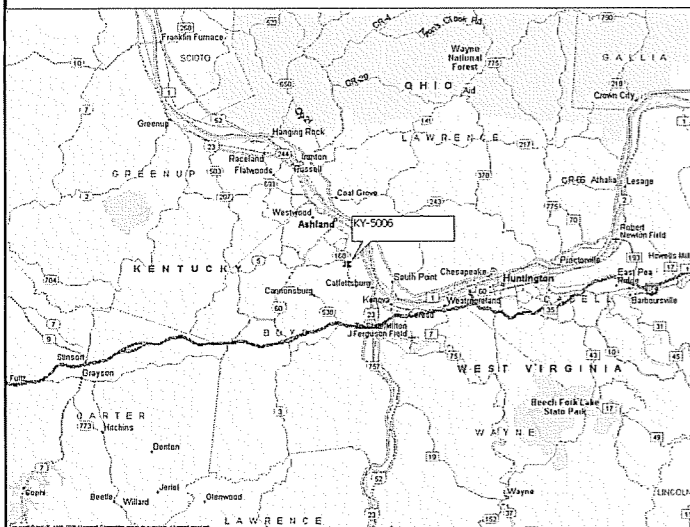
Also being a part of the same real estate conveyed by Woodland Development, Inc., of Boyd County, to Denver Ruggles and Glenda Ruggles, husband and wife, by Deed dated January 31, 2001, of record in Deed Book 642, Page 101, Boyd County Court Clerk's Records.

EXHIBIT 2

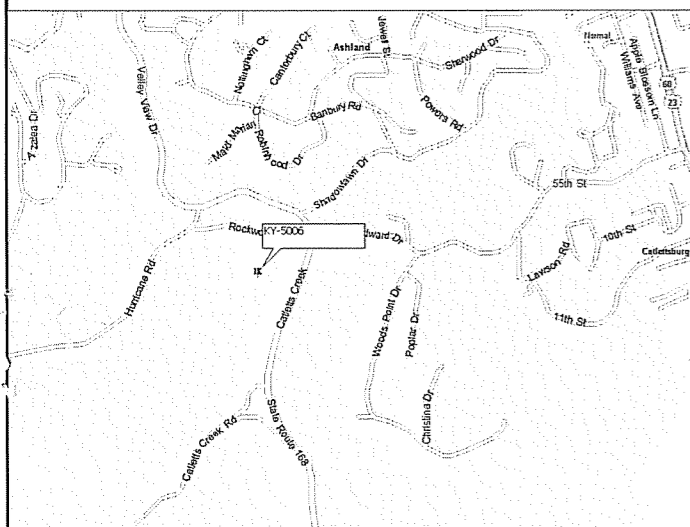
The Premises is depicted/described as follows and will be replaced by a surveyed legal description when available



LOCATION MAP



VICINITY MAP



DRIVE DIRECTIONS

FROM CATLETTSBURG, KY:
TAKE US-23 NORTH. TURN LEFT ONTO STATE ROUTE 168. TURN LEFT ONTO ROCKWOOD ROAD. ACCESS TO THE SITE IS ON THE LEFT.

DEPARTMENT	NAME / SIGNATURE	DATE
LAND OWNER / TOWER OWNER		
SITE ACQUISITION AGENT		
ZONING / PERMITTING AGENT		
A&E MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		

SITE NAME:

HURRICANE ROAD

GTP SITE NUMBER:

KY-5006

PROJECT DESCRIPTION:

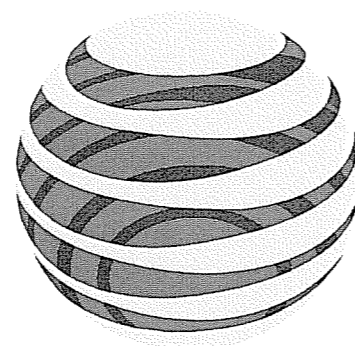
PROPOSED 195 FT. MONOPOLE TOWER

PREPARED FOR:



750 PARK OF COMMERCE BLVD
BOCA RATON, FLORIDA 33487
866-487-8977

CARRIER:



at&t

SITE #: WV632

PREPARED BY:



30 MANSELL CT
SUITE 103
ROSWELL, GA 30076
678-280-2325

RECEIVED

SEP 01 2011

PUBLIC SERVICE
COMMISSION

2011-00354

PROJECT INFORMATION

SITE ADDRESS: 5730 ROCKWOOD DRIVE
CATLETTSBURG, KY 41129

PARCEL ID: 10.01

TAX MAP: 34

LAND OWNER: VERNON R. AND CONSTANCE E. SAUNDERS
5730 ROCKWOOD DRIVE
CATLETTSBURG, KY 41129

DEVELOPER: GLOBAL TOWER ASSETS, LLC
MARSHALL HAZELHURST, 404-518-2064
C/O NORFOLK SOUTHERN RAILROAD
1200 PEACTREE STREET NE
MAILSTOP 114
ATLANTA, GA 30309

GLOBAL TOWER PARTNERS
750 PARK OF COMMERCE BLVD.
SUITE 300
BOCA RATON, FL 33487
561-495-0320

ENGINEER: P MARSHALL & ASSOCIATES
30 MANSELL CT, SUITE 103
ROSWELL, GA 30076
PATRICK MARSHALL, P.E.
678-280-2325

LATITUDE: 38° 26' 3.46" (NAD 83)
LONGITUDE: 82° 31' 48.12" (NAD 83)

ELEVATION: 754' AMSL (NAVD 88)

ZONING CLASSIFICATION: -
PERMIT JURISDICTION: BOYD COUNTY

POWER COMPANY: XXXXX

TELEPHONE COMPANY: XXXXX

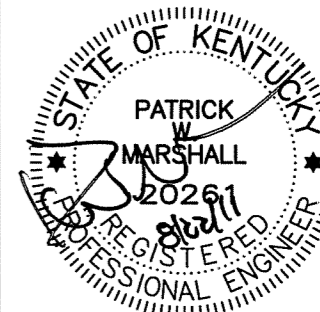
DRAWING INDEX

- T-1 TITLE SHEET & PROJECT INFORMATION
- SURVEY
- C-1 GENERAL NOTES
- C-2 OVERALL SITE PLAN
- C-3 DETAILED SITE PLAN
- C-4 TOWER ELEVATION & DETAILS
- C-5 GRADING & EROSION CONTROL PLAN
- C-6 GRADING & EROSION CONTROL DETAILS
- C-7 GRADING & EROSION CONTROL SPECIFICATIONS
- C-8 GRADING & EROSION CONTROL SPECIFICATIONS
- C-9 AT&T EQUIPMENT FOUNDATION DETAILS & NOTES
- C-10 COAX ICE BRIDGE DETAILS
- C-11 FENCE DETAILS
- C-12 AT&T SITE SIGNAGE
- E-1 ELECTRICAL SPECS & ONE-LINE DIAGRAM
- E-2 ELECTRICAL SITE PLAN
- E-3 GROUNDING SITE PLAN
- E-4 GROUNDING NOTES & COAX COLOR CODE TEMPLATE
- E-5 GROUNDING DETAILS
- E-6 UTILITY FRAME DETAILS



CALL BEFORE YOU DIG
KENTUCKY 811

<http://www.kentucky811.com/>



30 MANSELL CT
SUITE 103
ROSWELL, GA 30076
678-280-2325



DESCRIPTION:	ISSUED FOR REVIEW	ISSUED FOR PERMITTING & CONSTRUCTION	DRIVING DIRECTIONS
DATE	6/15/11	6/24/11	8/22/11
NUM	A	O	I

KY-5006

TITLE SHEET & PROJECT INFORMATION

SITE NAME

DESIGNED: DCC
DRAWN: DCC
CHECKED: PWM

JOB #: GTP004

T-1

SHEET 1	
	- VICINITY AND 500' STRUCTURAL MAP
	- ABUTTING PROPERTY OWNERS
	- U.S.G.S. QUAD MAP
SHEET 2	
	- LEGAL DESCRIPTIONS
SHEET 3	
	- PROPOSED ACCESS & UTILITY EASEMENT
	- FLOOD ZONE DATA
SHEET 4	
	- PROPOSED LEASE AREA
	- PROPOSED ACCESS & UTILITY EASEMENT
	- FLOOD ZONE DATA



LEGAL DESCRIPTIONS:

This is a description for Global Tower Partners, of an area to be leased from the property of Vernon R. and Constance E. Saunders of record in deed book 649, page 283, which is further described as follows:

PROPOSED LEASE AREA

Beginning at a found 6"x6" concrete monument in the southwestern most corner of the Vernon R. and Constance E. Saunders parcel of record in deed book 649, page 283, said point being a common corner to Edward T. and Esther Rearden of record in deed book 469, page 989 and being in the line of Eastern Kentucky Lumber and Development Company of record in deed book 174, page 119; thence with the line of Eastern Kentucky Lumber and Development Company, S89°08'07"W 892.93' to a corner point of Lewis R. Dillon, Jr. and Connie Sue Dillon of record in deed book 670, page 331; thence with the line of Dillon, N23°07'26"E 102.89' to a corner point to Timothy J. and Daisey K. Kemper of record in deed book 687, page 779; thence with the line of Kemper the following calls; N79°29'34"W 50.00', N18°52'40"E 248.76' to a found 1/2" rebar with a yellow cap stamped "K. Barker P.L.S. 2630," N18°52'40"E 248.76' and S79°29'34"E 450.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N18°42'22"E 114.06' to a corner point of Stanley E. and Geneva Stark of record in deed book 515, page 410; thence leaving said right-of-way and with the line of Stark the following calls; N72°51'27"W 200.00', N17°08'33"E 100.00' and S72°51'27"E 200.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N17°08'33"E 14.43' to the right-of-way intersection of State Route 168 and Rockwood Drive; thence with the right-of-way line of Rockwood Drive the following calls; N33°34'56"W 47.99', N11°32'56"W 84.41', N10°25'32"W 56.87', N22°19'57"W 38.29', N36°30'43"W 31.98', N54°42'35"W 23.03', N75°54'20"W 13.27', S78°37'15"W 82.75', S69°13'18"W 44.80', S73°38'57"W 89.93', S80°35'35"W 56.14', N87°27'00"W 70.66', N77°01'23"W 68.72', N74°00'52"W 94.06', N75°45'33"W 141.55' and N77°29'27"W 100.68'; thence leaving said right-of-way line, S23°44'49"W 87.31'; thence with the chord of a curve to the left having a radius of 50.00', S34°49'06"E 85.32'; thence N86°36'58"E 70.90', S78°22'55"E 81.65'; thence with the chord of a curve to the right having a radius of 50.00', S58°33'52"E 33.90'; thence S38°44'49"E 78.15', S58°21'55"E 52.12'; thence with the chord of a curve to the left having a radius of 50.00', S83°54'04"E 43.11'; thence N70°33'47"E 262.04'; thence with the chord of a curve to the right having a radius of 17.50', S35°29'47"E 33.63'; thence S38°26'40"W 242.11'; thence with the chord of a curve to the right having a radius of 50.00', S47°09'19"W 15.14'; thence S55°51'57"W 28.66', N79°29'34"W 85.06', S18°52'40"W 99.34' and S55°51'57"W 98.90'; thence with the chord of a curve to the right having a radius of 50.00', S69°26'34"W 23.47'; thence S83°01'10"W 76.55' and S06°58'50"E 10.00' to a set #5 rebar in the northwest corner of the proposed lease area, said point being the true Point of Beginning; thence N83°01'10"E 80.00' to a set #5 rebar; thence S06°58'50"E 80.00' to a set #5 rebar; thence S83°01'10"W 80.00' to a set #5 rebar and N06°58'50"W 80.00' to the Point of Beginning containing 6,400.00 square feet per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated May 31, 2011.

CENTERLINE OF PROPOSED 20' ACCESS EASEMENT

Beginning at a found 6"x6" concrete monument in the southwestern most corner of the Vernon R. and Constance E. Saunders parcel of record in deed book 649, page 283, said point being a common corner to Edward T. and Esther Rearden of record in deed book 469, page 989 and being in the line of Eastern Kentucky Lumber and Development Company of record in deed book 174, page 119; thence with the line of Eastern Kentucky Lumber and Development Company, S89°08'07"W 892.93' to a corner point of Lewis R. Dillon, Jr. and Connie Sue Dillon of record in deed book 670, page 331; thence with the line of Dillon, N23°07'26"E 102.89' to a corner point to Timothy J. and Daisey K. Kemper of record in deed book 687, page 779; thence with the line of Kemper the following calls; N79°29'34"W 50.00', N18°52'40"E 248.76' to a found 1/2" rebar with a yellow cap stamped "K. Barker P.L.S. 2630," N18°52'40"E 248.76' and S79°29'34"E 450.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N18°42'22"E 114.06' to a corner point of Stanley E. and Geneva Stark of record in deed book 515, page 410; thence leaving said right-of-way and with the line of Stark the following calls; N72°51'27"W 200.00', N17°08'33"E 100.00' and S72°51'27"E 200.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N17°08'33"E 14.43' to the right-of-way intersection of State Route 168 and Rockwood Drive; thence with the right-of-way line of Rockwood Drive the following calls; N33°34'56"W 47.99', N11°32'56"W 84.41', N10°25'32"W 56.87', N22°19'57"W 38.29', N36°30'43"W 31.98', N54°42'35"W 23.03', N75°54'20"W 13.27', S78°37'15"W 82.75', S69°13'18"W 44.80', S73°38'57"W 89.93', S80°35'35"W 56.14', N87°27'00"W 70.66', N77°01'23"W 68.72', N74°00'52"W 94.06', N75°45'33"W 141.55' and N77°29'27"W 100.68' to the true Point of Beginning of the proposed 20' Access Easement; thence with the centerline of said easement, S23°44'49"W 87.31'; thence with the chord of a curve to the left having a radius of 50.00', S34°49'06"E 85.32'; thence N86°36'58"E 70.90', S78°22'55"E 81.65'; thence with the chord of a curve to the right having a radius of 50.00', S58°33'52"E 33.90'; thence S38°44'49"E 78.15', S58°21'55"E 52.12'; thence with the chord of a curve to the left having a radius of 50.00', S84°26'57"E 43.97'; thence N69°28'01"E 260.71'; thence with the chord of a curve to the right having a radius of 22.50', S35°27'12"E 43.48'; thence S39°37'34"W 242.72'; thence with the chord of a curve to the right having a radius of 50.00', S47°44'46"W 14.12'; thence S55°51'57"W 28.66'; thence N79°29'34"W 85.06'; thence S18°52'40"W 99.34'; thence S55°51'57"W 98.90'; thence with the chord of a curve to the right having a radius of 50.00', S69°26'34"W 23.47'; thence S83°01'10"W 76.55' to the end of said easement per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated May 31, 2011.

CENTERLINE OF PROPOSED 15' UTILITY EASEMENT

Beginning at a found 6"x6" concrete monument in the southwestern most corner of the Vernon R. and Constance E. Saunders parcel of record in deed book 649, page 283, said point being a common corner to Edward T. and Esther Rearden of record in deed book 469, page 989 and being in the line of Eastern Kentucky Lumber and Development Company of record in deed book 174, page 119; thence with the line of Eastern Kentucky Lumber and Development Company, S89°08'07"W 892.93' to a corner point of Lewis R. Dillon, Jr. and Connie Sue Dillon of record in deed book 670, page 331; thence with the line of Dillon, N23°07'26"E 102.89' to a corner point to Timothy J. and Daisey K. Kemper of record in deed book 687, page 779; thence with the line of Kemper the following calls; N79°29'34"W 50.00', N18°52'40"E 248.76' to a found 1/2" rebar with a yellow cap stamped "K. Barker P.L.S. 2630," N18°52'40"E 248.76' and S79°29'34"E 450.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N18°42'22"E 114.06' to a corner point of Stanley E. and Geneva Stark of record in deed book 515, page 410; thence leaving said right-of-way and with the line of Stark the following calls; N72°51'27"W 200.00', N17°08'33"E 100.00' and S72°51'27"E 200.00' to a point in the west right-of-way line of State Route 168; thence with said right-of-way line, N17°08'33"E 14.43' to the right-of-way intersection of State Route 168 and Rockwood Drive; thence with the right-of-way line of Rockwood Drive the following calls; N33°34'56"W 47.99', N11°32'56"W 84.41', N10°25'32"W 56.87', N22°19'57"W 38.29', N36°30'43"W 31.98', N54°42'35"W 23.03', N75°54'20"W 13.27', S78°37'15"W 82.75', S69°13'18"W 44.80', S73°38'57"W 89.93', S80°35'35"W 56.14', N87°27'00"W 70.66', N77°01'23"W 68.72', N74°00'52"W 94.06', N75°45'33"W 141.55' and N77°29'27"W 100.68'; thence leaving said right-of-way line, S23°44'49"W 87.31'; thence with the chord of a curve to the left having a radius of 50.00', S34°49'06"E 85.32'; thence N86°36'58"E 70.90', S78°22'55"E 81.65'; thence with the chord of a curve to the right having a radius of 50.00', S58°33'52"E 33.90'; thence S38°44'49"E 78.15', S58°21'55"E 52.12'; thence with the chord of a curve to the left having a radius of 50.00', S83°54'04"E 43.11'; thence N70°33'47"E 262.04'; thence with the chord of a curve to the right having a radius of 17.50', S35°29'47"E 33.63'; thence S38°26'40"W 242.11'; thence with the chord of a curve to the right having a radius of 50.00', S47°09'19"W 15.14'; thence S55°51'57"W 28.66', N79°29'34"W 85.06', S18°52'40"W 99.34' and S55°51'57"W 98.90'; thence with the chord of a curve to the right having a radius of 50.00', S69°26'34"W 23.47'; thence S83°01'10"W 76.55' and S06°58'50"E 18.52' to the true Point of Beginning of the proposed 15' Utility Easement; thence with the centerline of said easement, S54°41'22"W 111.67', S51°19'39"W 229.10', S73°57'14"W 126.33' and N79°24'07"W 251.61' to the end of said easement per survey by Frank L. Sellinger, II, PLS No. 3282 with FS/Tan Land Surveyors & Consulting Engineers, dated May 31, 2011.

- POWER POLE
UTILITY COMPANY: UNKNOWN
IDENTIFICATION #: N/A
- PROJECT BENCHMARK
NORTH: 4060732.090
EAST: 5814739.357
ELEVATION: 759.59'
LOCATION: BEING A SET IPC STAMPED "FSTAN #3282" AT THE SOUTHWEST CORNER OF THE LEASE AREA.

SURVEYORS NOTES

SOURCE OF BEARING IS A G.P.S. OBSERVATION ON MAY 31, 2011.
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.

COORDINATE POINT LOCATION

NAID 1983
LATITUDE: 38°26'03.46"
LONGITUDE: 82°37'48.12"
NAID 1988
ELEVATION: 754' AMSL
STATE PLANE COORDINATE SINGLE ZONE
(BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
NORTHING: 4060776.655
EASTING: 5814774.190

SCHEDULE B - SECTION II EXCEPTIONS

FIDELITY NATIONAL TITLE INSURANCE COMPANY
COMMITMENT NO. 12721857 DATED MAY 26, 2011.

8. PLAT OF SURVEY OF PROPERTY OF VERNON R. SAUNDERS AND CONSTANCE E. SAUNDERS RECORDED ON 11-06-2003 IN PLAT BOOK 51, PAGE 33. (DOES APPLY TO THE PROPOSED 20' ACCESS EASEMENT, PROPOSED 15' UTILITY EASEMENT AND THE PROPOSED LEASE AREA)
9. EASEMENT IN FAVOR OF KENTUCKY POWER COMPANY, ITS SUCCESSORS AND ASSIGNS, SET FORTH IN INSTRUMENT RECORDED ON 1-26-2004 IN DEED BOOK D668, PAGE 611. (VAGUE AND AMBIGUOUS DEED DESCRIPTION - SURVEYOR UNABLE TO DETERMINE EXACT LOCATION OF EASEMENT)



LAND SURVEYOR'S CERTIFICATE

TYPE "A" SURVEY: UNADJUSTED TRVERSE CLOSURE BETTER THAN 1 IN 15,000
TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.
This survey and plat meets or exceeds the minimum standards of the governing authorities.
This property is subject to any recorded easements or right of ways not shown hereon.
Frank L. Sellinger, II
Ky. Reg. No. 3282



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

"CELLULAR COMMUNICATION TOWER SITE SURVEY"

REFERENCED AS "EXHIBIT B"
OWNER APPROVAL: _____ DATE: _____
AT&T APPROVAL: _____ DATE: _____



Formerly F.S. Land & T. Alan Neal Company
Land Surveyors and Consulting Engineers
2540 Ridgemoor Court, Suite 102
Louisville, KY 40299
Phone: (502) 635-5866 (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER: KY-5006

SITE NAME: HURRICANE ROAD

SITE ADDRESS: 5730 ROCKWOOD DRIVE
CATLETTSBURG, KY 41129

PROPOSED LEASE AREA:
AREA = 6,400.00 sq. ft.

PROPERTY OWNER:
VERNON AND CONSTANCE SAUNDERS
5730 ROCKWOOD DRIVE
CATLETTSBURG, KY 41129

TAX MAP: 39

PARCEL NUMBER: 10.01

SOURCE OF TITLE:
DEED BOOK 649, PAGE 283

DWG BY: TMD
CHKD BY: FSII
DATE: 06.02.2011

FSTAN PROJECT NO.: 11-7305

SHEET 2 OF 4

REVISIONS:

SHEET 1

- S1 - VICINITY AND 500' STRUCTURAL MAP
- S1 - ABUTTING PROPERTY OWNERS
- S1 - U.S.G.S. QUAD MAP

SHEET 2

- S2 - LEGAL DESCRIPTIONS

SHEET 3

- S3 - PROPOSED ACCESS & UTILITY EASEMENT
- S3 - FLOOD ZONE DATA

SHEET 4

- S4 - PROPOSED LEASE AREA
- S4 - PROPOSED ACCESS & UTILITY EASEMENT
- S4 - FLOOD ZONE DATA

COORDINATE POINT LOCATION
 NAD 1983
 LATITUDE: 38°26'03.46"
 LONGITUDE: 82°37'48.12"
 NAVD 1988
 ELEVATION: 754' AMSL
 STATE PLANE COORDINATE SINGLE ZONE
 (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
 NORTHING: 4060776.655
 EASTING: 5814774.190

POWER POLE
 UTILITY COMPANY: UNKNOWN
 IDENTIFICATION #: N/A

PROJECT BENCHMARK
 NORTH: 4060732.090
 EAST: 5814739.357
 ELEVATION: 758.59'
 LOCATION: BEING A SET IPC STAMPED "FSTAN #3282" AT THE SOUTHWEST CORNER OF THE LEASE AREA.

ABBREVIATIONS

EP EDGE OF PAVEMENT
 ROW RIGHT OF WAY
 CL CENTERLINE
 RP SUBJECT PROPERTY LINE
 POB POINT OF BEGINNING
 IPC IRON PIN CAPPED

SYMBOL LEGEND

WOOD POWER POLE
 SET #5 REBAR (UNLESS OTHERWISE NOTED)
 EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

LINE LEGEND

OVERHEAD ELECTRIC
 EXISTING FENCE
 SUBJECT PROPERTY BOUNDARY
 RIGHT OF WAY CENTERLINE

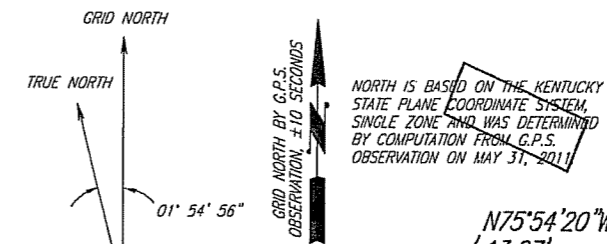
NOTE: SYMBOLS, ABBREVIATIONS, OR LIFESTYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE.

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS
C1	S34°49'06"E	85.32'	50.00'
C2	S58°33'52"E	33.90'	50.00'
C3	S84°26'57"E	43.97'	50.00'
C4	S35°27'12"E	43.48'	22.50'
C5	S47°44'46"W	14.12'	50.00'
C6	S69°26'34"W	23.47'	50.00'

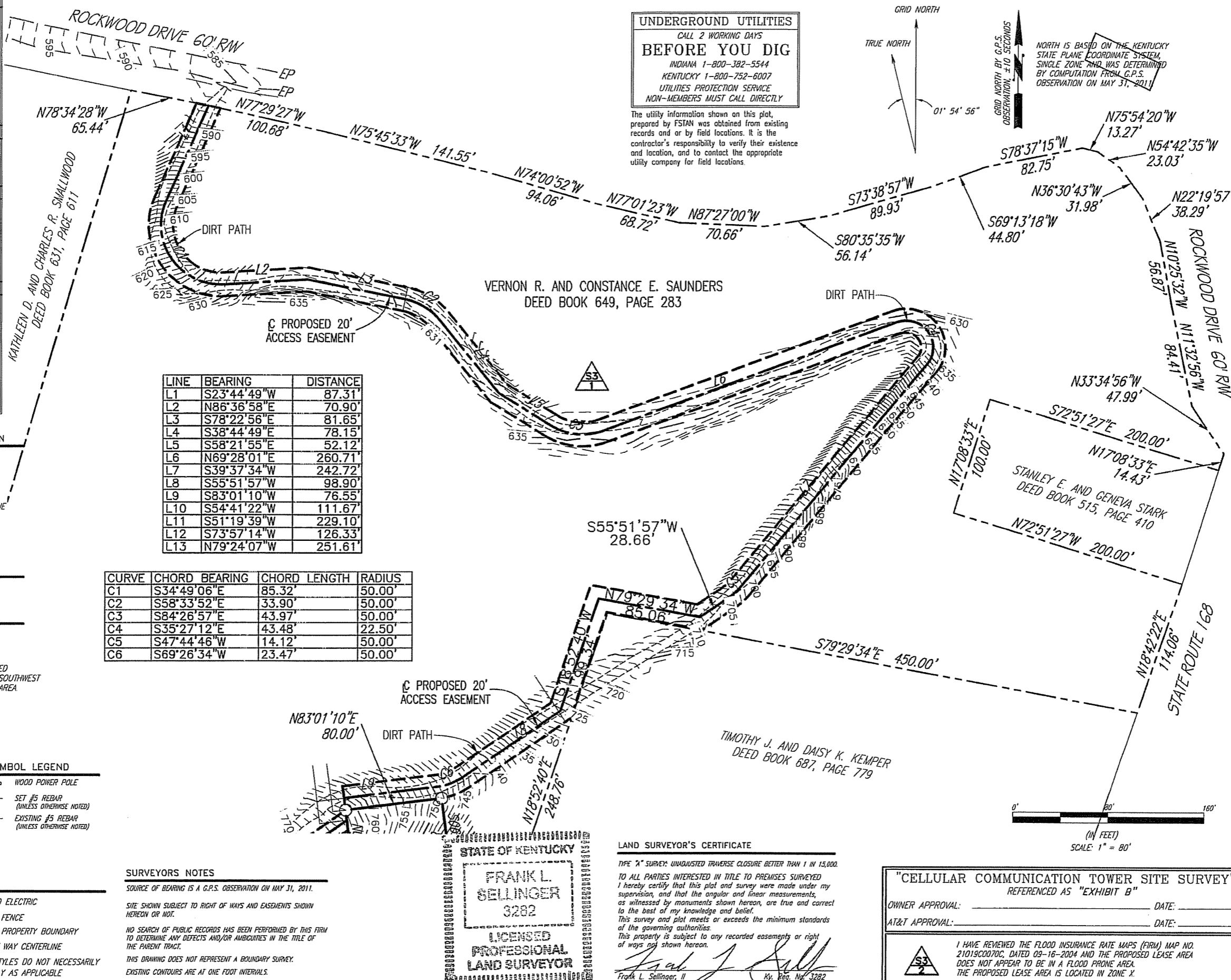
LINE	BEARING	DISTANCE
L1	S23°44'49"W	87.31'
L2	N86°36'58"E	70.90'
L3	S78°22'56"E	81.65'
L4	S38°44'49"E	78.15'
L5	S58°21'55"E	52.12'
L6	N69°28'01"E	260.71'
L7	S39°37'34"W	242.72'
L8	S55°51'57"W	98.90'
L9	S83°01'10"W	76.55'
L10	S54°41'22"W	111.67'
L11	S51°19'39"W	229.10'
L12	S73°57'14"W	126.33'
L13	N79°24'07"W	251.61'

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

The utility information shown on this 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.



NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MAY 31, 2011.



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

LAND SURVEYOR'S CERTIFICATE
 TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 15,000.
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plot 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 plot 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, II
 Frank L. Sellinger, II Ky. Reg. No. 3282

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

OWNER APPROVAL: _____ DATE: _____
 AT&T APPROVAL: _____ DATE: _____

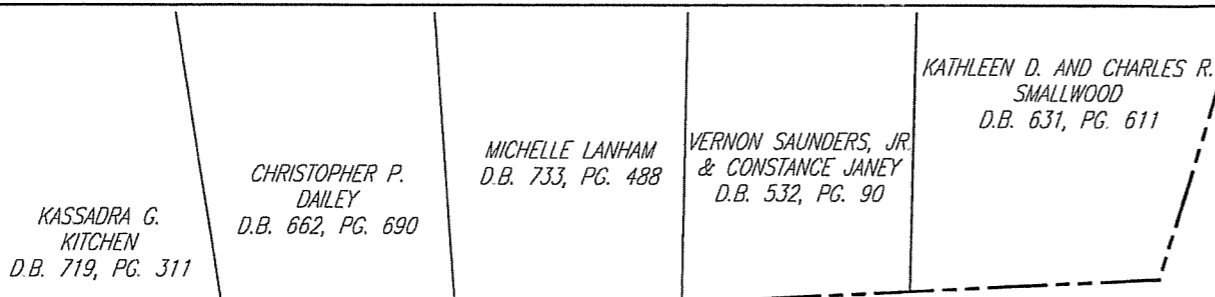
I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21019C0070C, DATED 09-16-2004 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.

GTP
 Geomatics & Surveying

FSTAN
 Formerly F.S. Land & T. Alan Neal Company
 Land Surveyors and Consulting Engineers
 2540 Ridgemoor Court, Suite 102
 Louisville, KY 40299
 Phone: (502) 635-5856 (502) 636-5111
 Fax: (502) 636-5263

SITE NUMBER: KY-5006
 SITE NAME: HURRICANE ROAD
 SITE ADDRESS: 5730 ROCKWOOD DRIVE, CATLETTSBURG, KY 41129
 PROPOSED LEASE AREA: AREA = 6,400.00 sq. ft.
 PROPERTY OWNER: VERNON AND CONSTANCE SAUNDERS, 5730 ROCKWOOD DRIVE, CATLETTSBURG, KY 41129
 TAX MAP: 39
 PARCEL NUMBER: 10.01
 SOURCE OF TITLE: DEED BOOK 649, PAGE 283
 DWG BY: TMD, CHKD BY: FSH, DATE: 06.02.2011
 FSTAN PROJECT NO.: 11-7305
 SHEET 3 OF 4
 REVISIONS:
 C2.1

SHEET 1	
	- VICINITY AND 500' STRUCTURAL MAP
	- ABUTTING PROPERTY OWNERS
	- U.S.G.S. QUAD MAP
SHEET 2	
	- LEGAL DESCRIPTIONS
SHEET 3	
	- PROPOSED ACCESS & UTILITY EASEMENT
	- FLOOD ZONE DATA
SHEET 4	
	- PROPOSED LEASE AREA
	- PROPOSED ACCESS & UTILITY EASEMENT
	- FLOOD ZONE DATA



SURVEYORS NOTES
 SOURCE OF BEARING IS A G.P.S. OBSERVATION ON MAY 31, 2011.
 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.

GRID NORTH
 TRUE NORTH
 01° 54' 56"

GRID NORTH BY G.P.S. OBSERVATION ± 1.0 SECONDS

NORTH IS BASED ON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MAY 31, 2011.

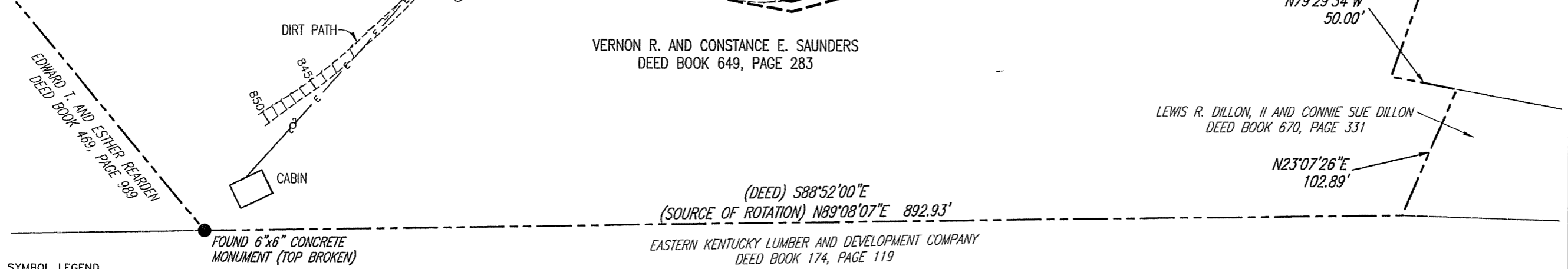
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LINE	BEARING	DISTANCE
L1	S23°44'49"W	87.31'
L2	N86°36'58"E	70.90'
L3	S78°22'56"E	81.65'
L4	S38°44'49"E	78.15'
L5	S58°21'55"E	52.12'
L6	N69°28'01"E	260.71'
L7	S39°37'34"W	242.72'
L8	S55°51'57"W	98.90'
L9	S83°01'10"W	76.55'
L10	S54°41'22"W	111.67'
L11	S51°19'39"W	229.10'
L12	S73°57'14"W	126.33'
L13	N79°24'07"W	251.61'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS
C1	S34°49'06"E	85.32'	50.00'
C2	S58°33'52"E	33.90'	50.00'
C3	S84°26'57"E	43.97'	50.00'
C4	S35°27'12"E	43.48'	22.50'
C5	S47°44'46"W	14.12'	50.00'
C6	S69°26'34"W	23.47'	50.00'

COORDINATE POINT LOCATION
 NAD 1983
 LATITUDE: 38°26'03.46"
 LONGITUDE: 82°37'48.12"
 NAVD 1988
 ELEVATION: 754' AMSL
 STATE PLANE COORDINATE SINGLE ZONE
 (BLUE MARBLE GEOGRAPHIC CALCULATOR VERSION 3.0)
 NORTHING: 4060776.655
 EASTING: 5814774.190



SYMBOL LEGEND

	WOOD POWER POLE
	SET #5 REBAR (UNLESS OTHERWISE NOTED)
	EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

LINE LEGEND

	OVERHEAD ELECTRIC
	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

ABBREVIATIONS

EP	EDGE OF PAVEMENT
ROW	RIGHT OF WAY
E	CENTERLINE
PL	SUBJECT PROPERTY LINE
POB	POINT OF BEGINNING
IPC	IRON PIN CAPPED

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

LAND SURVEYOR'S CERTIFICATE
 TYPE "A" SURVEY: UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 15,000.
 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief.
 This survey and plat meets or exceeds the minimum standards of the governing authorities.
 This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II
 Ky. Reg. No. 13282

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

OWNER APPROVAL: _____ DATE: _____
 AT&T APPROVAL: _____ DATE: _____

I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21019C0070C, DATED 09-16-2004 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.

GTP
 GEOTECHNICAL TECHNOLOGIES

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 DWG BY: TMD, CHKD BY: FSH, DATE: 06.02.2011
 FSTAN PROJECT NO.: 11-7305
 SHEET 4 OF 4

REVISIONS:

C2.2

GENERAL NOTES:

1. THE GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH ACCEPTED CONSTRUCTION PRACTICES.
2. IT IS THE INTENTION OF THESE DRAWINGS TO SHOW THE COMPLETED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL ORDINANCES, TO SAFELY EXECUTE ALL WORK AND SHALL BE RESPONSIBLE FOR SAME. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES.
3. THE CONTRACTOR SHALL USE ADEQUATE NUMBER OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHOD NEEDED FOR PROPER PERFORMANCE OF THE WORK.
4. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD DESIGN ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH PERFORMANCE OF WORK ON THIS PROJECT.
5. SITE GROUNDING SHALL COMPLY WITH GTP GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH GTP GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN. GROUNDING SHALL BE COMPLETED BEFORE ERECTION OF THE TOWER.
6. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION. IF TEMPORARY LIGHTING AND MARKING IS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION (FAA), IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE NECESSARY LIGHTS AND NOTIFY THE PROPER AUTHORITIES IN THE EVENT OF A PROBLEM.
7. ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.
8. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. A MINIMUM OF 24 HOURS OF NOTICE SHALL BE GIVEN AND THE BUILDING INSPECTION DEPARTMENTS HAVE REQUESTED THAT GROUPS OF TWO OR THREE SITES BE SCHEDULED AT ONE TIME IF POSSIBLE.
10. CONSTRUCTION MANAGER WILL CONFIRM FAA APPROVAL OF TOWER LOCATION BY ISSUING TOWER RELEASE FORM. NO TOWER SHALL BE CONSTRUCTED UNTIL THE TOWER RELEASE FORM IS ISSUED TO THE CONTRACTOR.
11. THE COMPLETE BID PACKAGE INCLUDES THESE CONSTRUCTION DRAWINGS ALONG WITH THE SPECIFICATIONS AND TOWER DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR REVIEW OF TOTAL BID PACKAGE PRIOR TO BID SUBMITTAL.
12. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES WITHIN CONSTRUCTION LIMITS PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES. SILT AND EROSION CONTROL SHALL BE MAINTAINED ON THE DOWNSTREAM SIDE OF THE SITE AT ALL TIMES. ANY DAMAGE TO ADJACENT PROPERTIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
14. CLEARING OF TREES AND VEGETATION ON THE SITE SHOULD BE HELD TO A MINIMUM. ONLY THE TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED. ANY DAMAGE TO PROPERTY OUTSIDE THE LEASE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR.
15. ALL SUITABLE BORROW MATERIAL FOR BACK FILL OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES PRIOR TO DISPOSAL.
16. SEEDING AND MULCHING OF THE SITE SHALL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE SITE DEVELOPMENT. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING AN ADEQUATE COVER OF VEGETATION OVER THE SITE FOR A ONE YEAR PERIOD.
17. FOR ITEMS THAT SHALL BE PROVIDED BY THE OWNER & INSTALLED BY THE CONTRACTOR, SEE "OWNER SUPPLIED MATERIAL LIST" INSERTED IN THIS DRAWING PACKAGE.
18. PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.
19. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DRAWINGS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
20. REFER TO SITE CIVIL SPECIFICATIONS SECTION 13000 - REFERENCE STANDARDS
21. THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING ON THE WORK CONTAINED IN THIS DESIGN PACKAGE.

EXCAVATION & GRADING NOTES:

1. ALL CUT AND FILL SLOPES SHALL BE 3 : 1 MAXIMUM.
2. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WATER. DEWATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED IF REQUIRED.
3. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL. IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH, THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
4. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OF CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
5. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACK FILLING, ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
6. BACK FILL SHALL BE:
 - APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND, GRAVEL, OR SOFT SHALE;
 - FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS;
 - IN LAYERS AND COMPACTED.
7. SITE FILL MATERIAL AND FOUNDATION BACK FILL SHALL BE PLACED IN LAYERS, MAXIMUM 6" DEEP BEFORE COMPACTION. EACH LAYER SHALL BE SPRINKLED IF REQUIRED AND COMPACTED BY HAND OPERATED OR MACHINE TAMPERS TO 95% OF MAXIMUM DENSITY, AT THE OPTIMUM MOISTURE CONTENT ±2% AS DETERMINED BY ASTM DESIGNATION D-698, UNLESS OTHERWISE APPROVED. SUCH BACK FILL SHALL NOT BE PLACED BEFORE 3 DAYS AFTER PLACEMENT OF CONCRETE.
8. THE FOUNDATION AREA SHALL BE GRADED TO PROVIDE WATER RUNOFF AND PREVENT WATER FROM STANDING. THE FINAL GRADE SHALL SLOPE AWAY IN ALL DIRECTIONS FROM THE FOUNDATION AND SHALL THEN BE COVERED WITH 4" DEEP COMPACTED STONE OR GRAVEL.
9. CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CITY, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKMENTS FROM SOIL LOSS AND TO PREVENT ACCUMULATION OF SOIL AND SILT IN STREAMS AND DRAINAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STAW BALE SEDIMENT BARRIERS AND CHECK DAMS.
10. FILL PREPARATION: REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILLS. PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SO FILL MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, FULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
11. REPLACE THE EXISTING WEARING SURFACE ON AREAS WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION OPERATIONS. SURFACE SHALL BE REPLACE TO MATCH EXISTING ADJACENT SURFACING AND SHALL BE OF THE SAME THICKNESS. NEW SURFACE SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED IF INJURIOUS AMOUNTS OF EARTH, ORGANIC MATERIAL, OF OTHER DELETERIOUS MATERIALS ARE REMOVED PRIOR TO REUSE. FURNISH ALL ADDITIONAL RESURFACING MATERIAL AS REQUIRED. BEFORE SURFACING IS REPLACED, SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIALS SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. SURFACING SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE.
12. PROTECT EXISTING SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
13. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
15. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
16. RIPRAP SHALL BE CLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY, AND FREE OF ANY DETRIMENTAL QUANTITY OF SOFT, FRIABLE, THIN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALKALI, OR OTHER DELETERIOUS SUBSTANCE.

LEGEND

- X — FENCE
- 550 — CONTOUR LINE
- - - - - PROPERTY LINE / ROW
- - - - - LEASE AREA
- - - - - EASEMENT
- DISCONNECT SWITCH
- Ⓜ METER
- ⤵ CIRCUIT BREAKER
- ⊗ CODED NOTE NUMBER
- ⊕ CHEMICAL GROUND ROD
- ⊗ GROUND ROD
- ⊗ GROUND ROD WITH INSPECTION SLEEVE
- CADWELDED TYPE CONNECTION
- COMPRESSION TYPE CONNECTION
- G — GROUND WIRE



NUM	DATE	DESCRIPTION:
A	6/15/11	ISSUED FOR REVIEW
O	6/24/11	ISSUED FOR PERMITTING & CONSTRUCTION
I	8/22/11	DRIVING DIRECTIONS

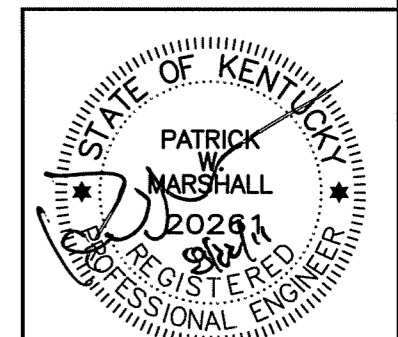
KY-5006

SITE NAME

DESIGNED: DCC
DRAWN: DCC
CHECKED: PWM

JOB #: GTP004

C-1



NUM	DATE	DESCRIPTION:
A	6/15/11	ISSUED FOR REVIEW
O	6/24/11	ISSUED FOR PERMITTING & CONSTRUCTION
I	8/22/11	DRIVING DIRECTIONS

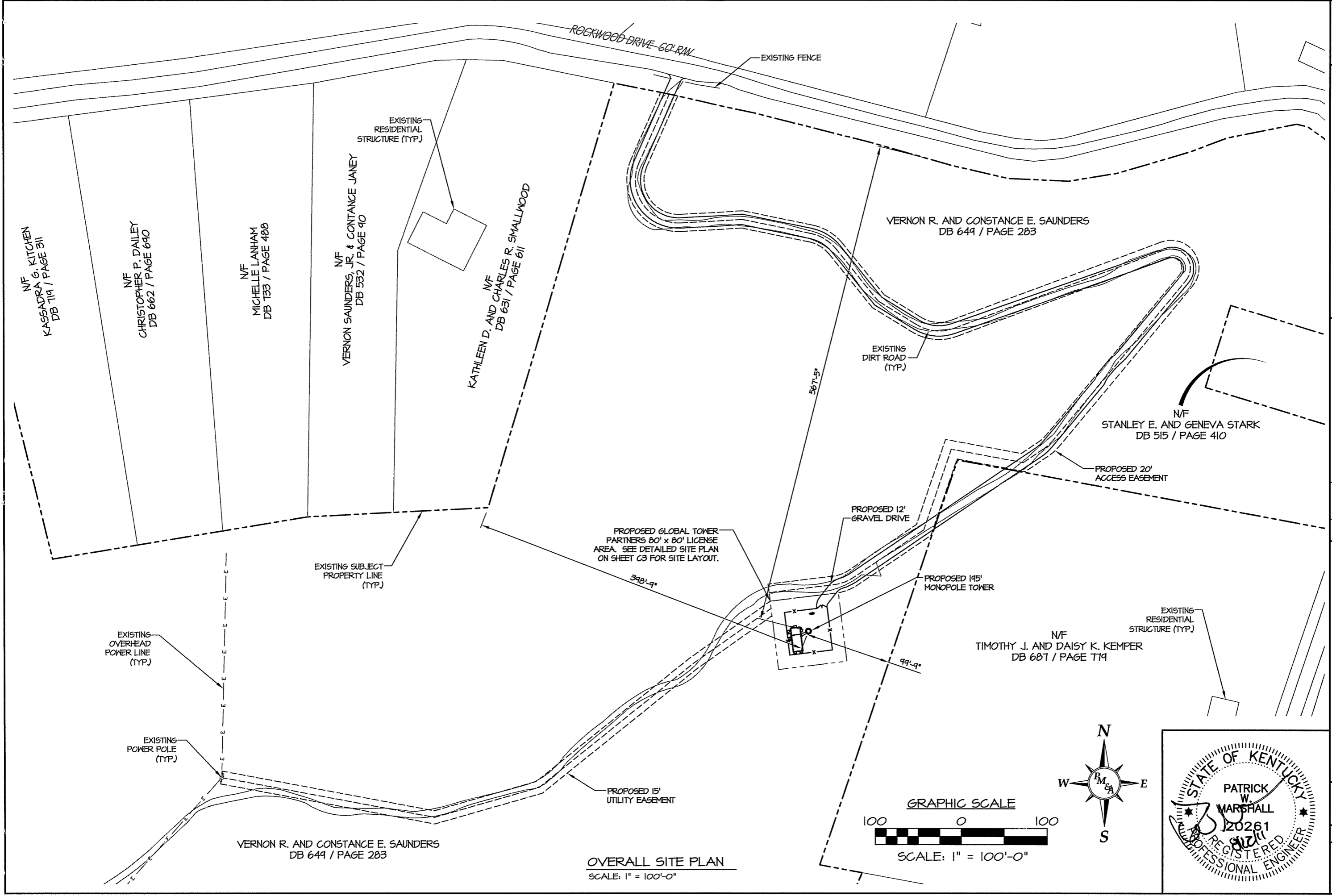
NUM: KY-5006

OVERALL SITE PLAN

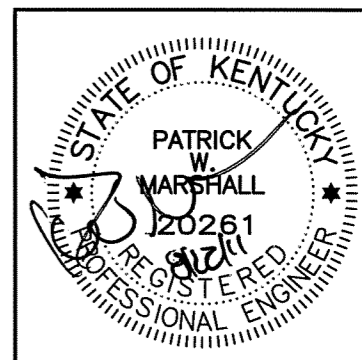
DESIGNED:	DCC
DRAWN:	DCC
CHECKED:	PWM

JOB #: GTP004

C-2



OVERALL SITE PLAN
 SCALE: 1" = 100'-0"



DESCRIPTION:
ISSUED FOR REVIEW
ISSUED FOR PERMITTING & CONSTRUCTION
DRIVING DIRECTIONS

DATE	NUM
6/15/11	A
6/24/11	O
8/22/11	I

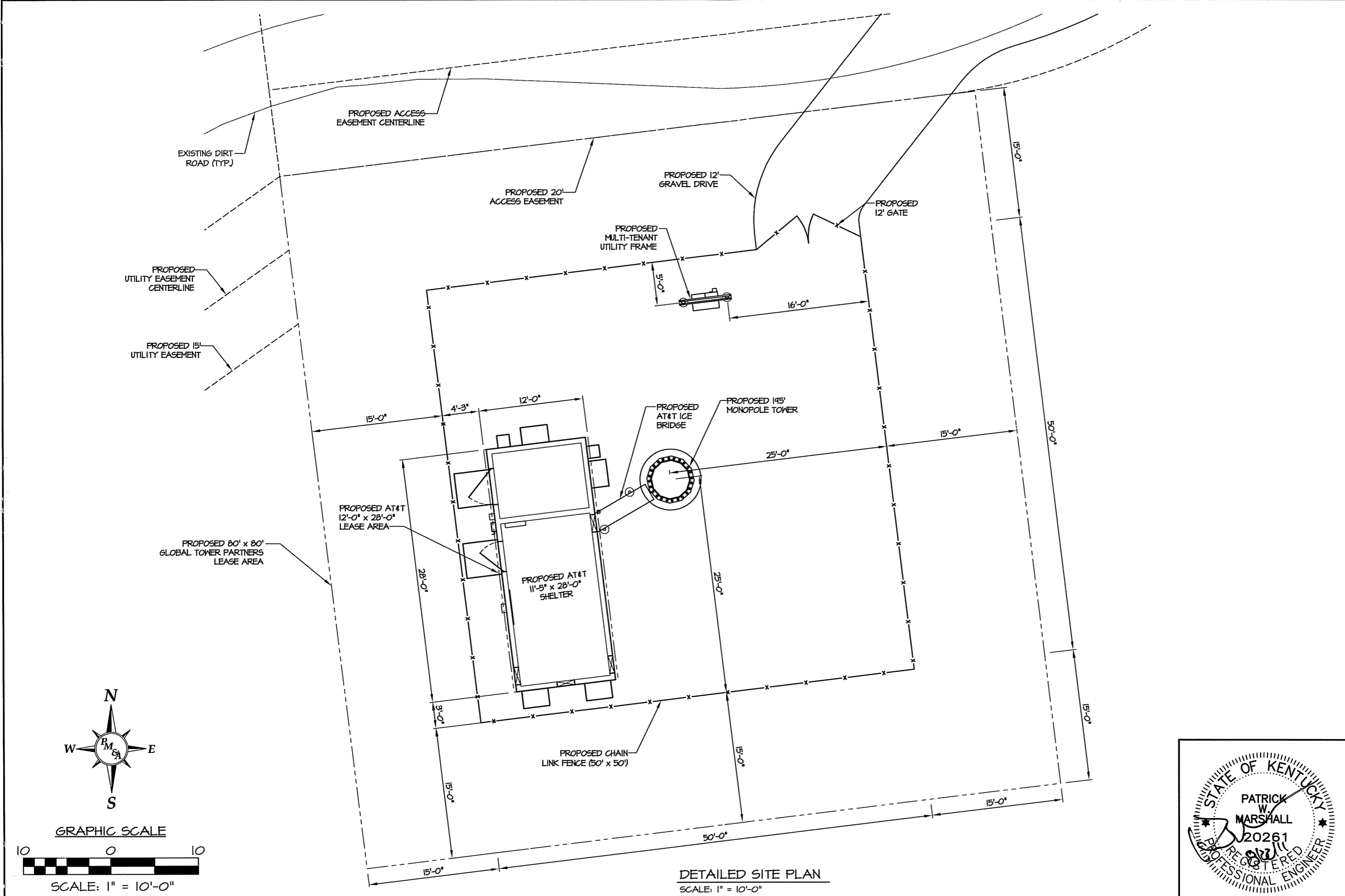
DETAILED SITE PLAN

SITE NAME: KY-5006

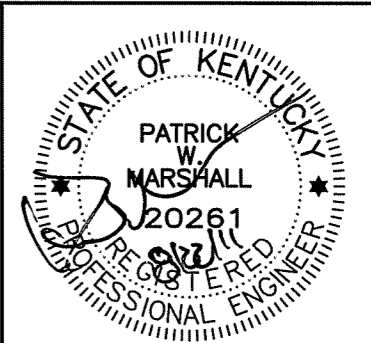
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DRAWN: DCC
CHECKED: PWM

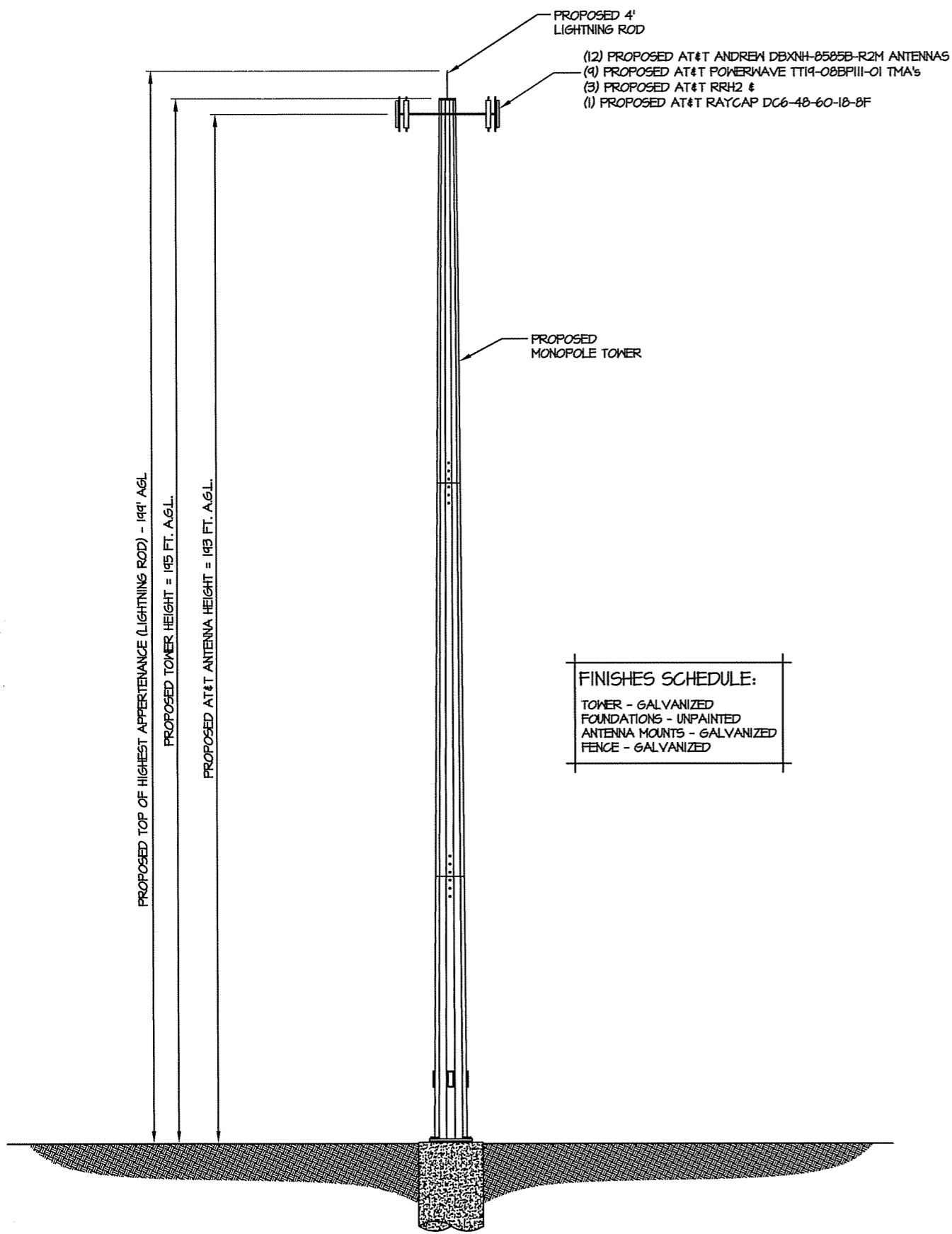
JOB #: GTP004

C-3



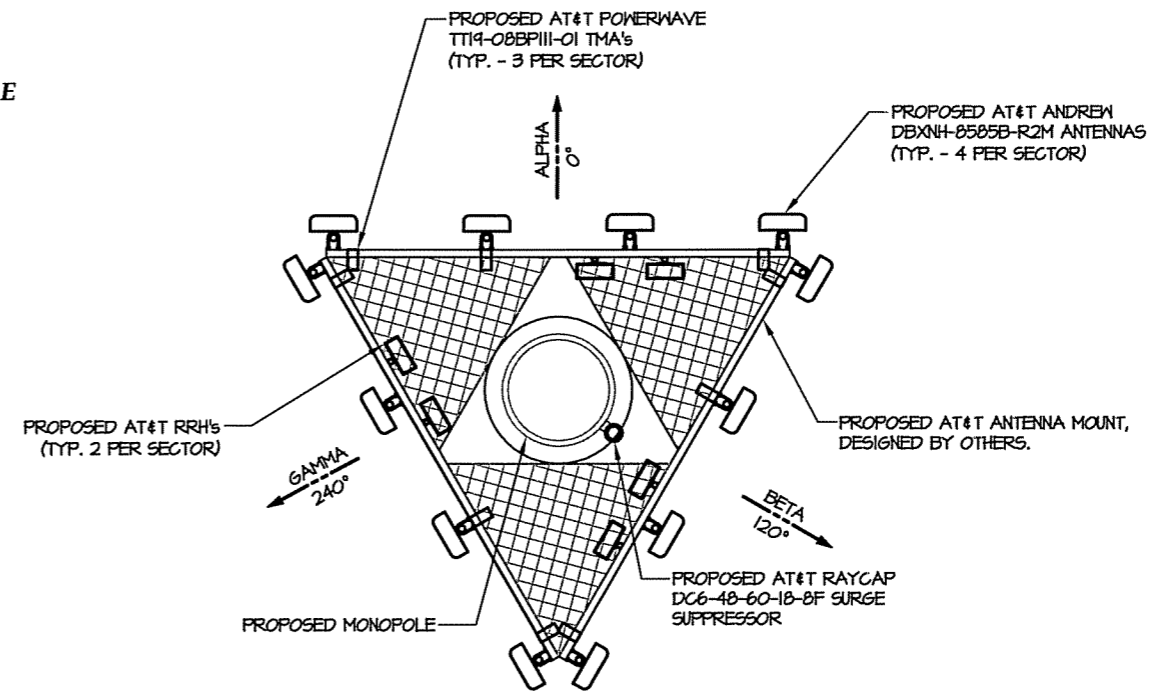
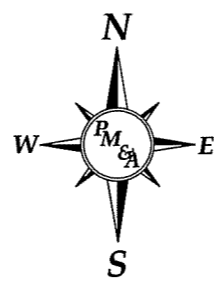
DETAILED SITE PLAN
SCALE: 1" = 10'-0"





FINISHES SCHEDULE:

TOWER	- GALVANIZED
FOUNDATIONS	- UNPAINTED
ANTENNA MOUNTS	- GALVANIZED
FENCE	- GALVANIZED



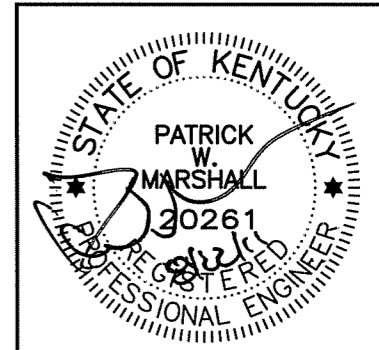
ANTENNA ORIENTATION DETAIL
NTS

TOWER ELEVATION
NTS

NUM	DATE	DESCRIPTION:
A	6/15/11	ISSUED FOR REVIEW
O	6/24/11	ISSUED FOR PERMITTING & CONSTRUCTION
I	8/22/11	DRIVING DIRECTIONS

KY-5006

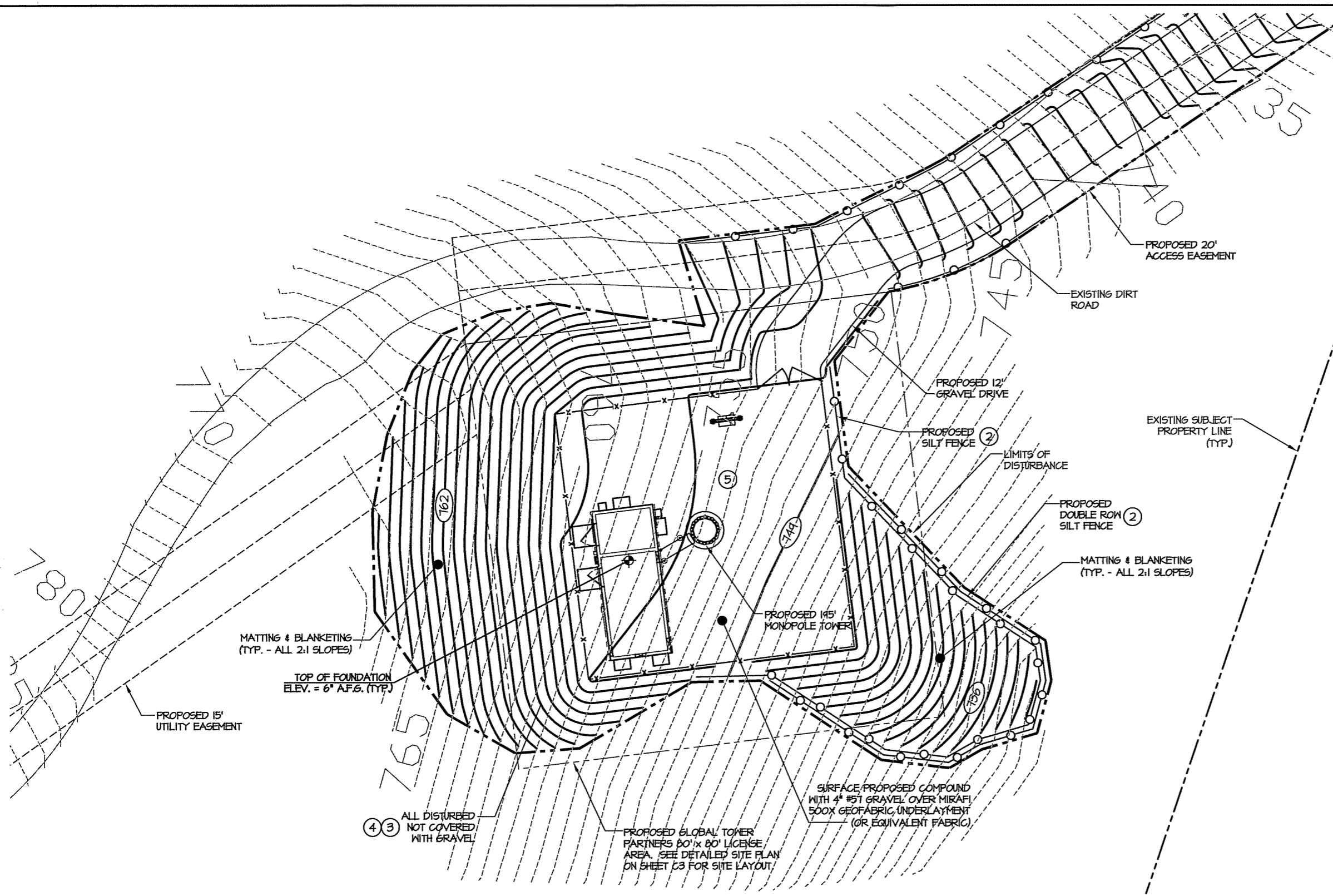
TOWER ELEVATION AND DETAILS



DESIGNED: DCC
DRAWN: DCC
CHECKED: PWM

JOB #: GTP004

C-4



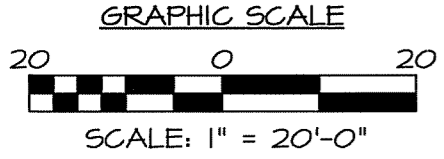
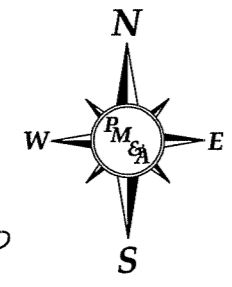
- ① CONSTRUCTION EXIT - TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION AREA ONTO PUBLIC RIGHT-OF-WAYS, STREETS, ALLEYS, SIDEWALKS, OR PARKING AREAS.
- ② TYPE C SEDIMENT BARRIER - TO PREVENT ANY SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEMS.
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DISTURBED AREAS LEFT IDLE SHALL BE STABILIZED WITH TEMPORARY VEGETATION AFTER 14 DAYS; AFTER 30 DAYS PERMANENT VEGETATION SHALL BE ESTABLISHED

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EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST WEEKLY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR

ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION

GRADING & EROSION CONTROL PLAN
SCALE: 1" = 20'-0"



PMA
30 MANSSELL CT
SUITE 103
ROSWELL, GA 30076
678-280-2325



NUM	DATE	DESCRIPTION:
A	6/15/11	ISSUED FOR REVIEW
0	6/24/11	ISSUED FOR PERMITTING & CONSTRUCTION
1	8/22/11	DRIVING DIRECTIONS

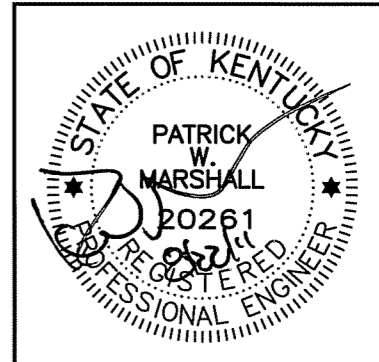
Site Name: **KY-5006**

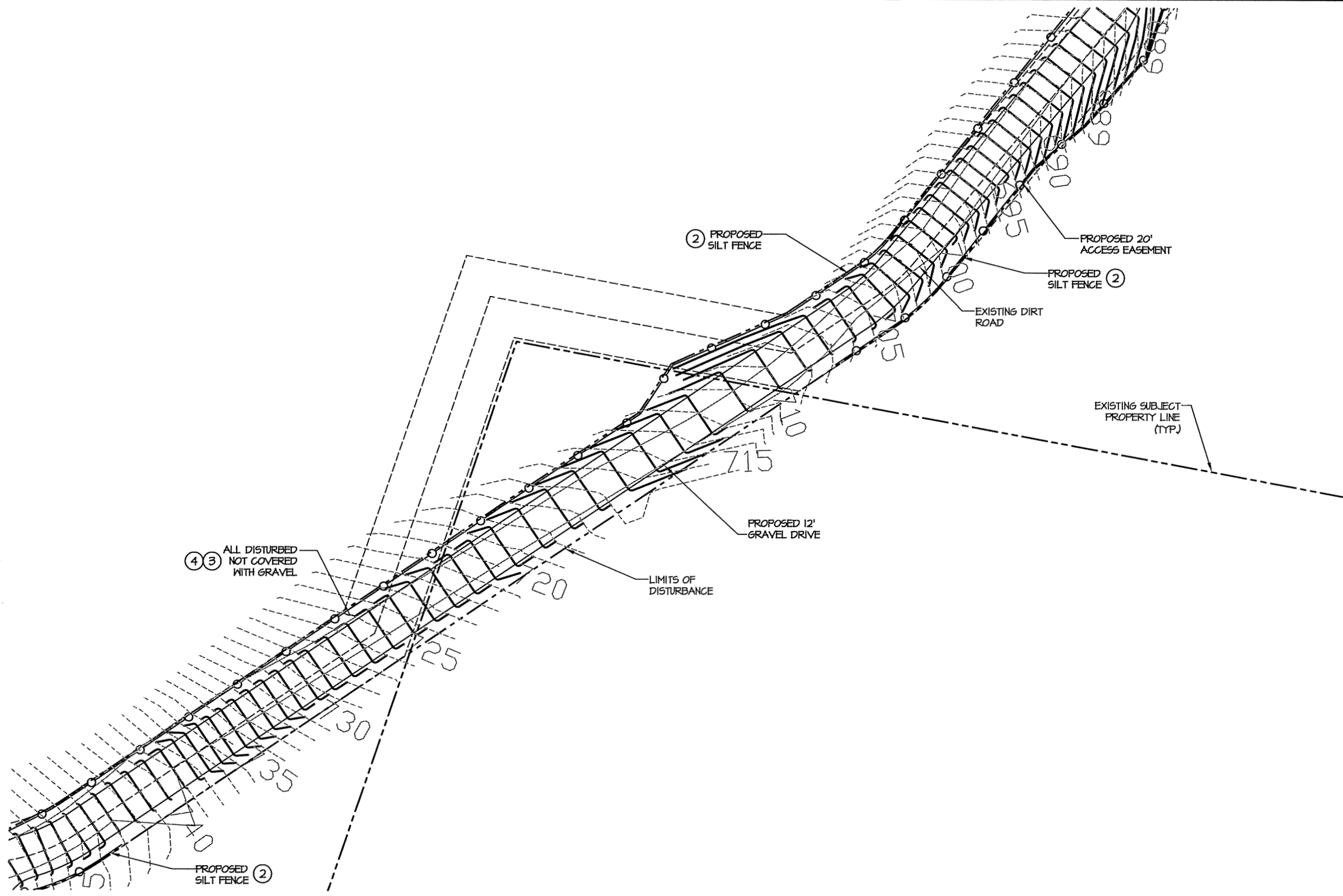
GRADING, SEDIMENT & EROSION CONTROL PLAN

DESIGNED: DCC
DRAWN: DCC
CHECKED: PWM

JOB #: GTP004

C-5





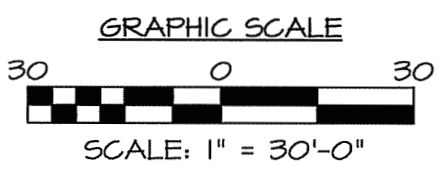
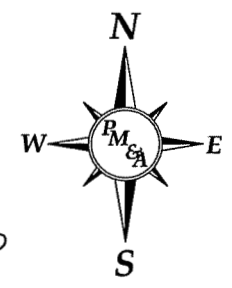
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GRADING & EROSION CONTROL PLAN
SCALE: 1" = 30'-0"



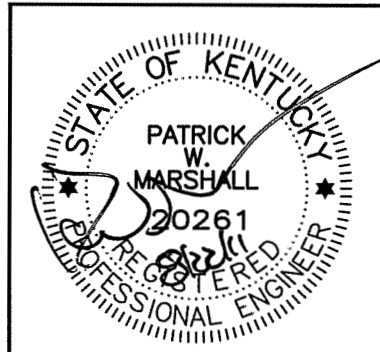
PMA&A
30 MANSELL CT
SUITE 103
ROSWELL, GA 30076
678-280-2325

GTP
Global Tower Partners

DESCRIPTION:	DATE	NUM
ISSUED FOR REVIEW	6/15/11	A
ISSUED FOR PERMITTING & CONSTRUCTION	6/24/11	O
DRIVING DIRECTIONS	8/22/11	I

KY-5006

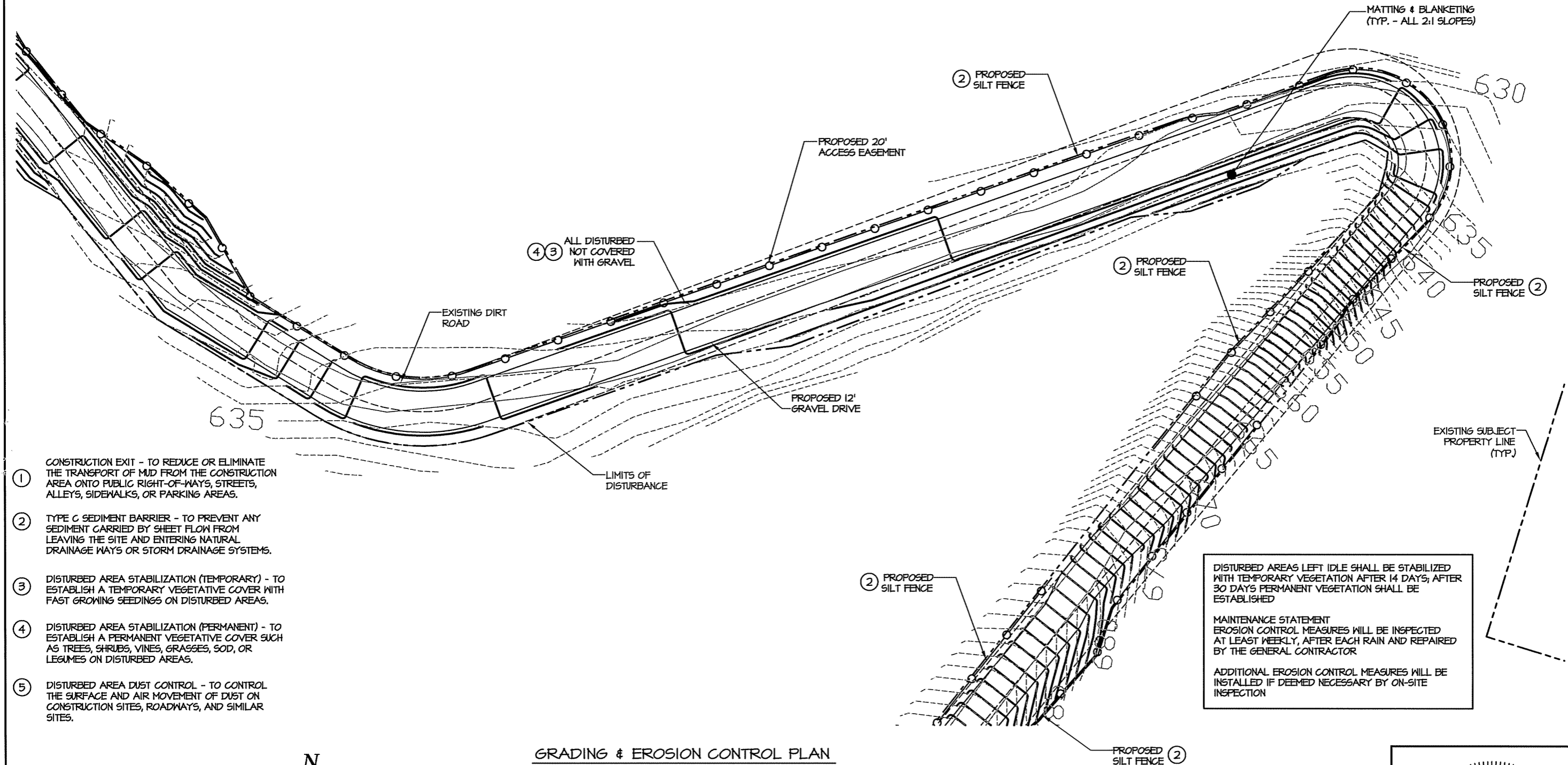
GRADING, SEDIMENT & EROSION CONTROL PLAN



DESIGNED: DCC
DRAWN: DCC
CHECKED: PWM

JOB #: GTP004

C-5A



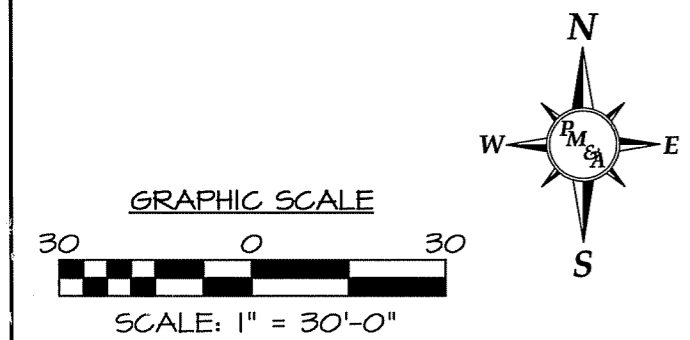
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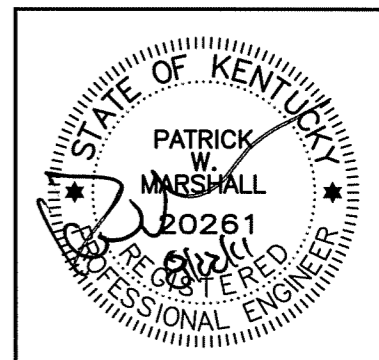
Site Name: KY-5006

GRADING, SEDIMENT & EROSION CONTROL PLAN

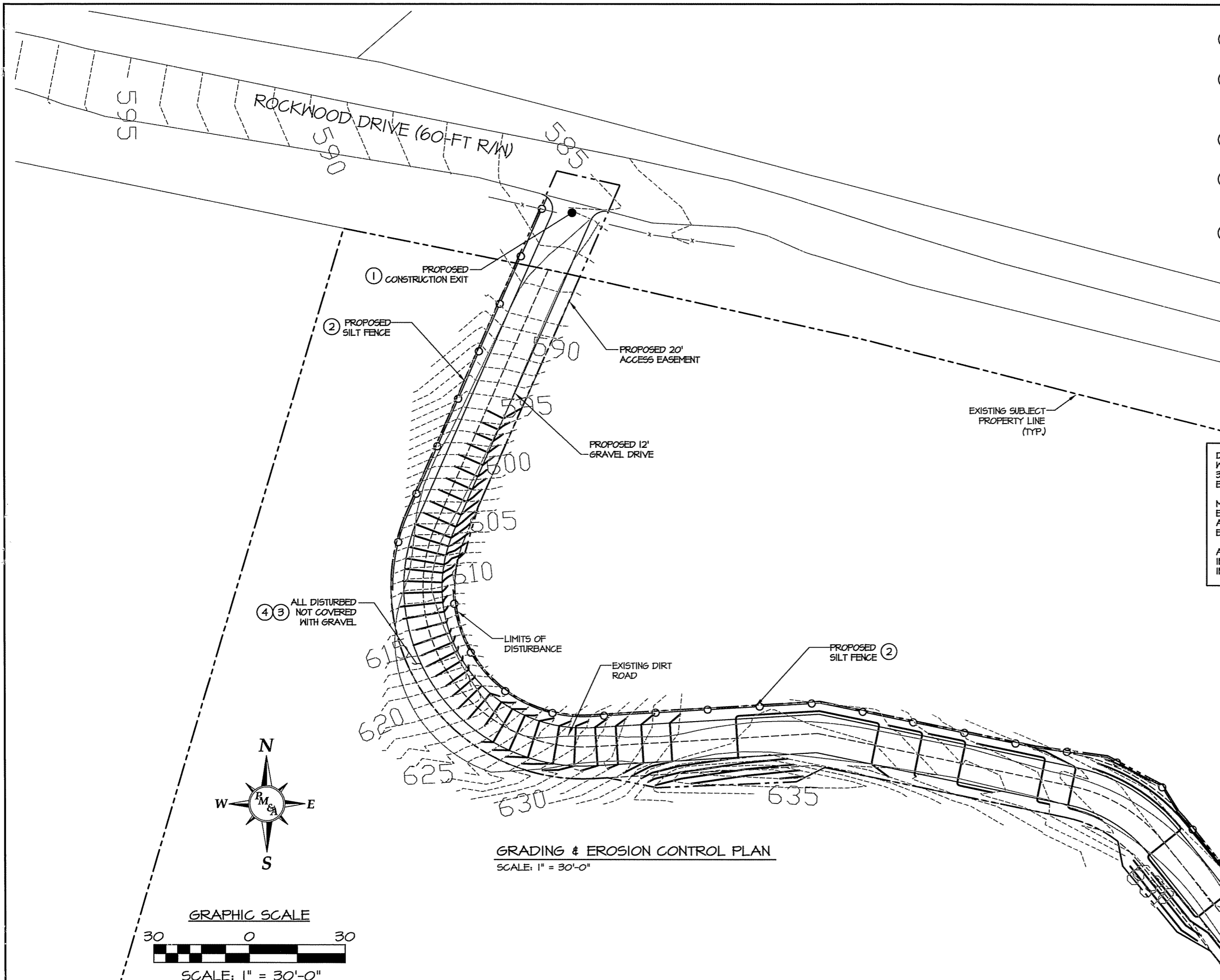
DESIGNED: DCC
 DRAWN: DCC
 CHECKED: PWM

JOB #: GTP004

C-5B



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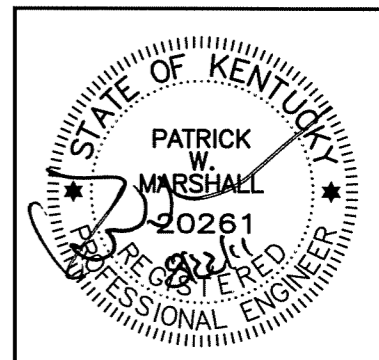
Site Name: **KY-5006**

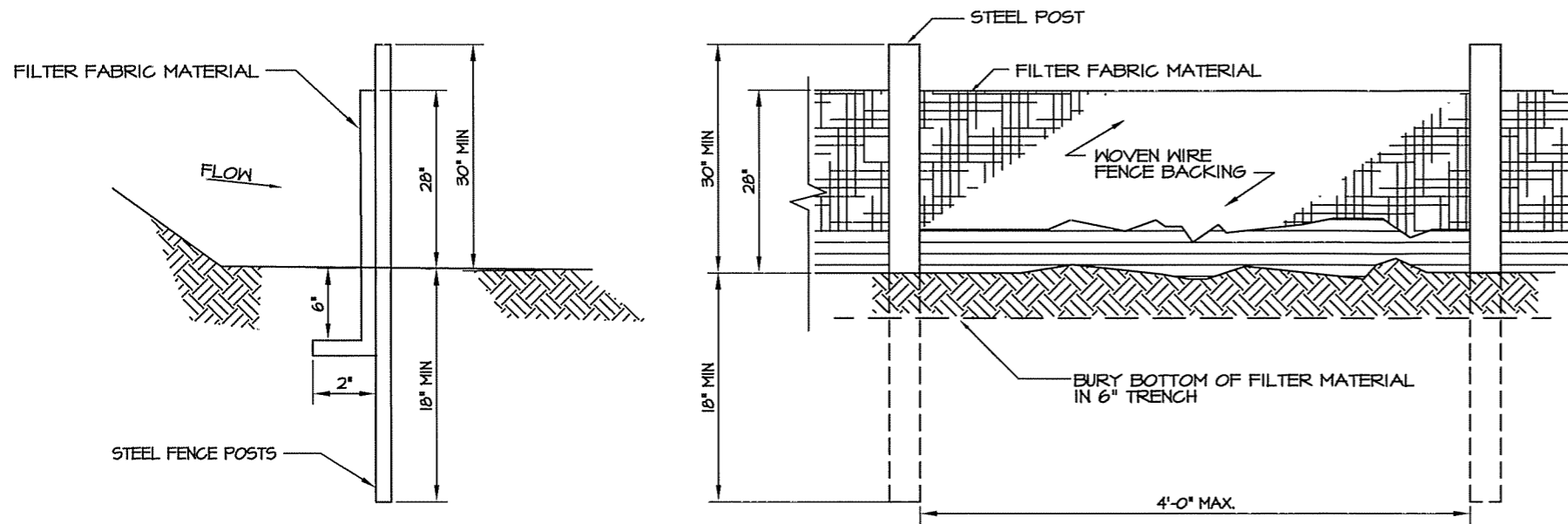
GRADING, SEDIMENT & EROSION CONTROL PLAN

DESIGNED: DCC
 DRAWN: DCC
 CHECKED: PWM

JOB #: **GTP004**

C-5C

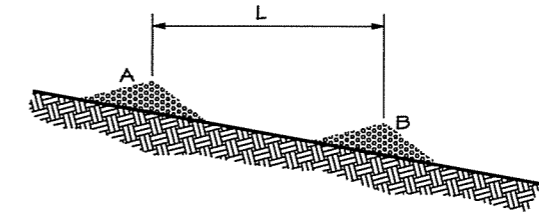




NOTE: USE 36" DOT APPROVED FABRIC
 USE STEEL POSTS

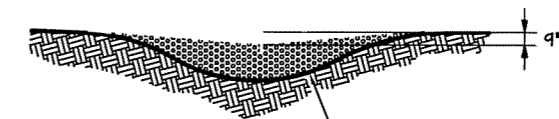
2 SILT FENCE, TYPE-C

L = THE DISTANCE SUCH THAT POINTS
 A AND B ARE OF EQUAL ELEVATION.

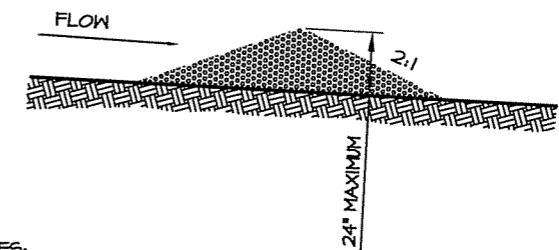


SPACING BETWEEN CHECK DAMS

STONE CHECK DAM



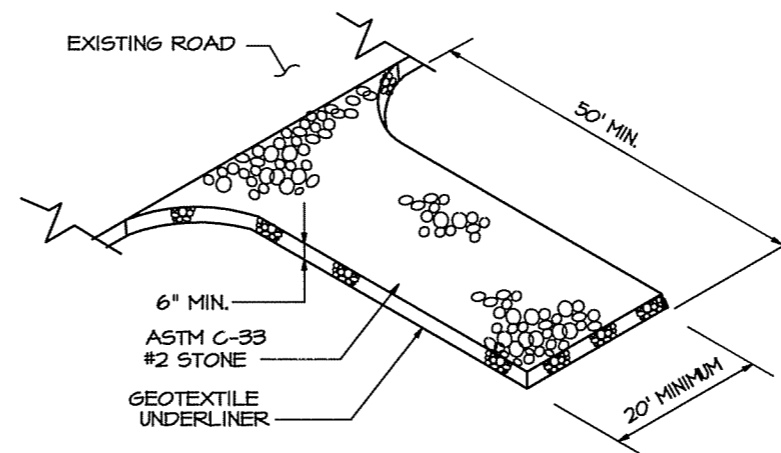
MARAFI
 STABILIZATION FABRIC
 PLACED ON SUBGRADE



NOTES:

- CHECK DAMS TO BE CONSTRUCTED OF GRADED SIZE 2 - 10 INCH STONE. MECHANICAL OR HAND PLACEMENT SHALL BE REQUIRED TO INSURE COMPLETE COVERAGE OF ENTIRE WIDTH OF DITCH OR SWALE AND THAT CENTER OF DAM IS LOWER THAN EDGES.
- SEDIMENT TO BE REMOVED WHEN A LEVEL OF 1/2 THE ORIGINAL DAM HEIGHT OR LESS IS REACHED. REMOVE CHECK DAMS AT COMPLETION OF PROJECT AND TREAT RESULTING DISTURBED AREAS AS REQUIRED.

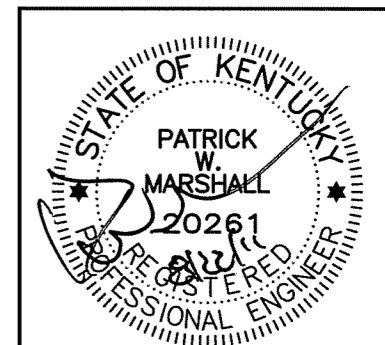
6 CHECK DAM
 NOT TO SCALE



1 CONSTRUCTION EXIT

NUM	DATE	DESCRIPTION:
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I	8/22/11	DRIVING DIRECTIONS

KY-5006
**GRADING, SEDIMENT &
 EROSION CONTROL DETAILS**



DESIGNED: DCC
 DRAWN: DCC
 CHECKED: PWM
 JOB #: GTP004

C-6



PIEDMONT VEGETATIVE COVERS

CALENDAR MONTH	TEMPORARY SEED	APPLICATION RATE/ACRE	PERMANENT SEED	APPLICATION RATE/ACRE
1. JANUARY	RYE GRASS	40-50 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA ²	8-10 LB. 30-40 LB. ¹
2. FEBRUARY			UNHULLED BERMUDA SERICEA LESPEDEZA ² FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
3. MARCH	RYE ANNUAL LESPEDEZA WEEPING LOVE GRASS	2-3 BU. 20-25 LB. 4-6 LB.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
4. APRIL	RYE BROWN TOP MILLET ANNUAL LESPEDEZA SUDAN ANNUAL	2-3 BU. 30-40 LB. 20-25 LB. 35 LB.	WEEPING LOVE GRASS HULLED BERMUDA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
5. MAY	WEEPING LOVE GRASS SUDAN GRASS BROWN TOP MILLET	4-6 LB. 35 LB. 30-40 LB.	WEEPING LOVE GRASS HULLED BERMUDA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
6. JUNE	WEEPING LOVE GRASS SUDAN GRASS BROWN TOP MILLET	4-6 LB. 35 LB. 30-40 LB.	WEEPING LOVE GRASS HULLED BERMUDA BAHIA	4-6 LB. 5-6 LB. 40-60 LB.
7. JULY	WEEPING LOVE GRASS SUDAN GRASS BROWN TOP MILLET	4-6 LB. 35 LB. 30-40 LB.		
8. AUGUST	RYE GRASS WEEPING LOVE GRASS	40-50 LB. 4-6 LB.		
9. SEPTEMBER			TALL FESCUE	30-50 LB.
10. OCTOBER	WHEAT	2-3 BU.	UNHULLED BERMUDA SERICEA LESPEDEZA ² FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
11. NOVEMBER	WHEAT	2-3 BU.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.
12. DECEMBER	RYE RYE GRASS WHEAT	2-3 BU. 40-50 LB. 2-3 BU.	UNHULLED BERMUDA SERICEA LESPEDEZA FESCUE	8-10 LB. 30-40 LB. 30-50 LB.

¹ USE A MINIMUM OF 40 LBS. SCARIFIED SEED. THE REMAINDER MAY BE UNSCARIFIED, CLEAN HULLED SEED.

² USE EITHER COMMON SERALA OR INTERSTATE SERICEA LESPEDEZA.

3 DISTURBED AREA STABILIZATION
(WITH TEMPORARY SEEDING)

4 DISTURBED AREA STABILIZATION
(WITH PERMANENT VEGETATION)

GENERAL

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATES. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

HYDRAULIC SEEDING EQUIPMENT: WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENOUS MIXTURE, AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (HYDRAULIC SEEDING EQUIPMENT ON SLOPES 3:1 AND STEEPER)

AGRICULTURAL LIMESTONE #75	4000 LBS./ACRE
FERTILIZER, 5-10-15	1500 LBS./ACRE
MULCH (STRAW OR HAY) OR WOOD CELLULOSE FIBER MULCH	5000 LBS./ACRE 1000 LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
SERICEA LESPEDEZA, SCARIFIED WEEPING LOVE GRASS, OR COMMON BERMUDA, HULLED	60 LBS. 4 LBS. 6 LBS.	3/1 - 6/15
FESCUE SERICEA LESPEDEZA, UNSCARIFIED	40 LBS. 60 LBS.	9/1 - 10/31
FESCUE SERICEA LESPEDEZA, UNSCARIFIED RYE	40 LBS. 75 LBS. 50 LBS.	11/1 - 2/28
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15 - 8/31

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

FERTILIZER (AMMONIUM NITRATE 33.5%)	300 LBS./ACRE
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C. SECOND-YEAR TREATMENT:

FERTILIZER (0-20-20 OR EQUIVALENT)	500 LBS./ACRE
------------------------------------	---------------

3 DISTURBED AREA STABILIZATION
(WITH TEMPORARY SEEDING)

4 DISTURBED AREA STABILIZATION
(WITH PERMANENT VEGETATION)

GENERAL

THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS, AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION. SEEDING WILL BE DONE AS SOON AS CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

SOIL CONDITIONS

DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATES. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

TREATMENT SPECIFICATIONS

CONVENTIONAL SEEDING EQUIPMENT: GRADE, SHAPE, AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL PULVERIZED, SMOOTHED, AND FIRMED. SEEDING WILL BE DONE WITH A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED AND COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARRON WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

A. SEEDING WITH MULCH: (CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)

AGRICULTURAL LIMESTONE #75	4000 LBS./ACRE
FERTILIZER, 5-10-15	1500 LBS./ACRE
MULCH (STRAW OR HAY)	5000 LBS./ACRE

SEED SPECIES	APPLICATION RATE/ACRE	PLANTING DATES
HULLED COMMON BERMUDA GRASS	10 LBS.	3/1 - 6/15
FESCUE	50 LBS.	9/1 - 10/31
FESCUE RYE GRASS	50 LBS. 50 LBS.	11/1 - 2/28
HAY MULCH FOR TEMPORARY COVER	5000 LBS.	6/15 - 8/31

B. TOP DRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL

FERTILIZER (AMMONIUM NITRATE 33.5%)	300 LBS./ACRE
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C. SECOND-YEAR TREATMENT:

FERTILIZER (5-10-15 OR EQUIVALENT)	800 LBS./ACRE
------------------------------------	---------------

DESCRIPTION:	DATE	NUM
ISSUED FOR REVIEW	6/15/11	A
ISSUED FOR PERMITTING & CONSTRUCTION	6/24/11	O
DRIVING DIRECTIONS	8/22/11	I

KY-5006

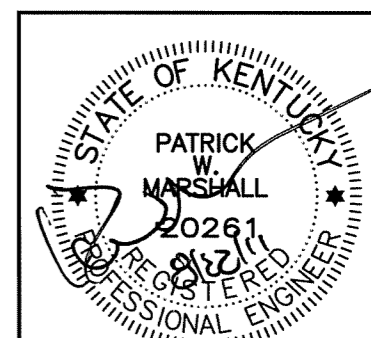
GRADING, SEDIMENT & EROSION CONTROL VEGETATION SPECS

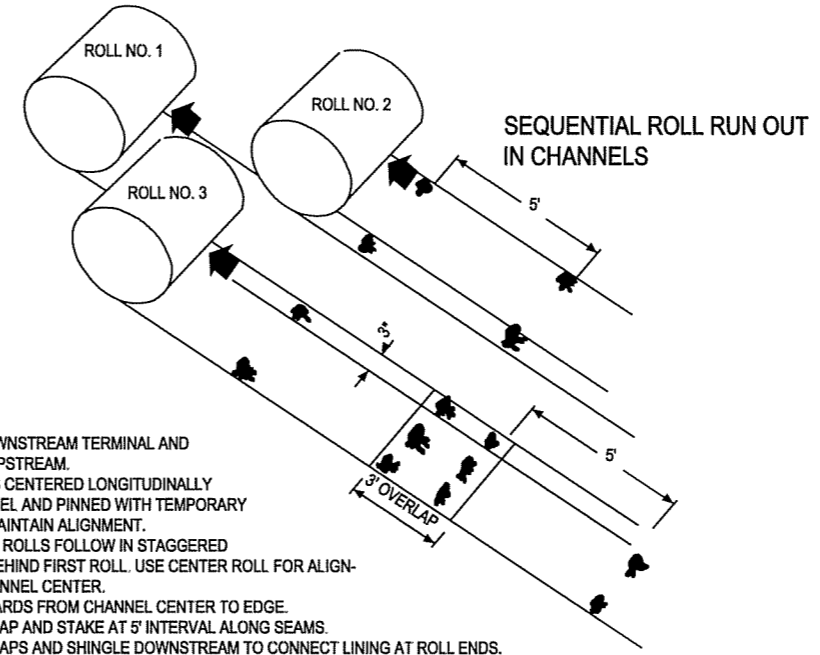
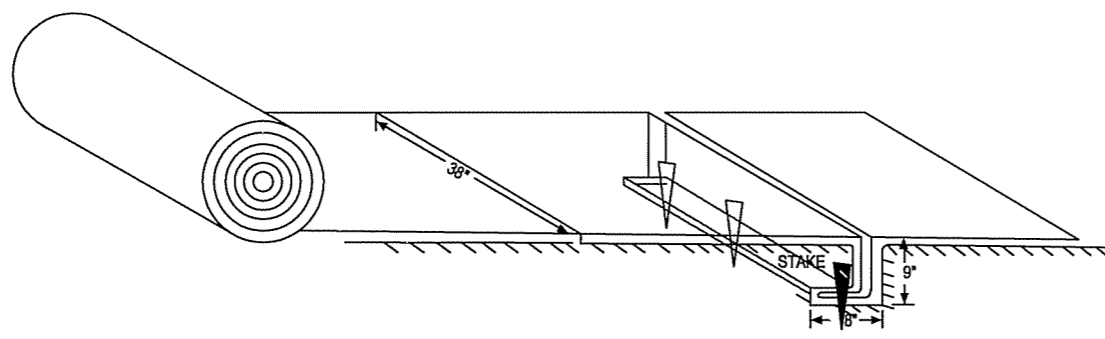
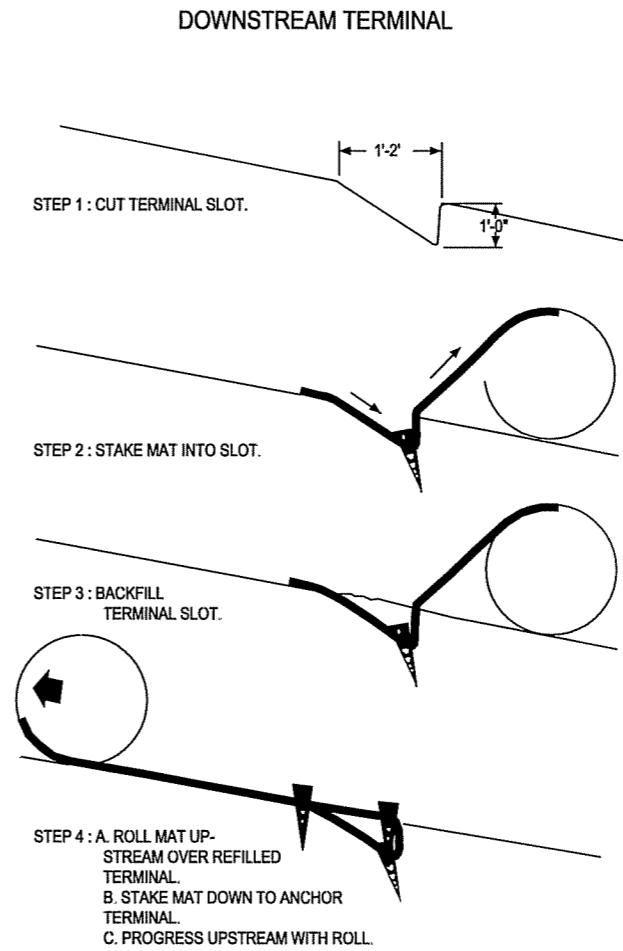
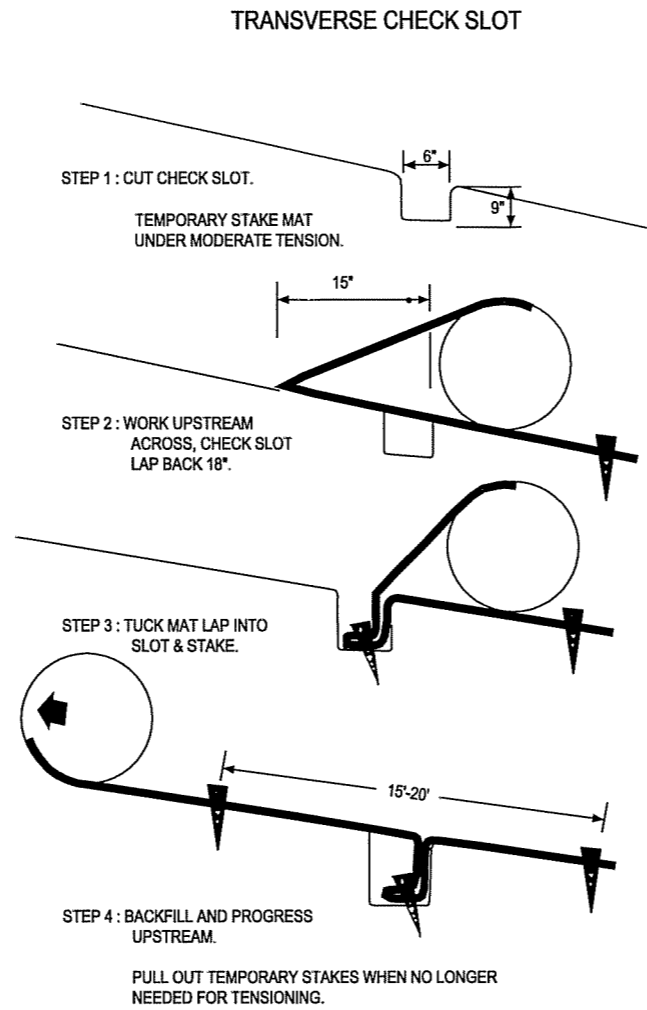
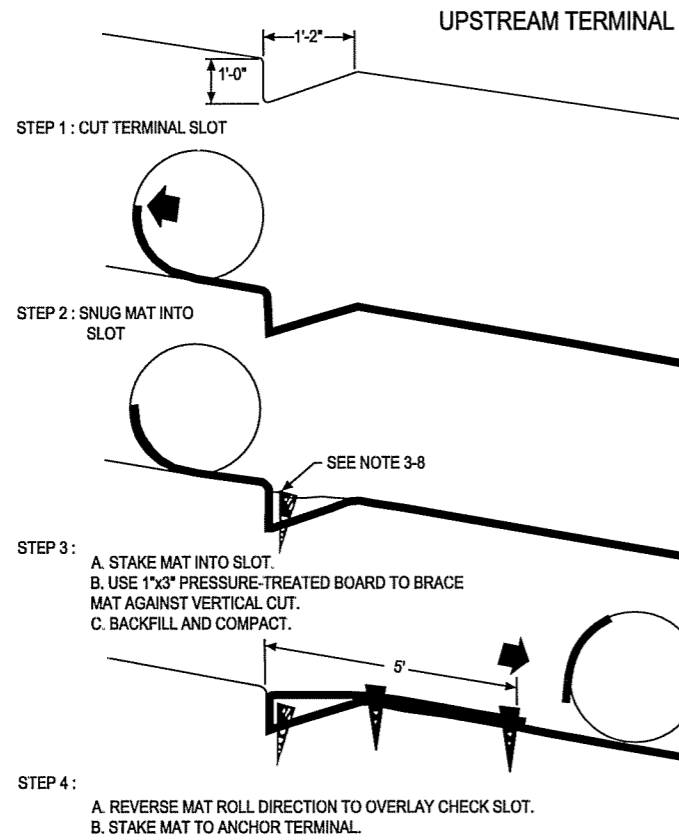
STATE NAME

DESIGNED: DCC
DRAWN: DCC
CHECKED: PWM

JOB #: GTP004

C-7





1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUSSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

Mb - MATTING & BLANKETING

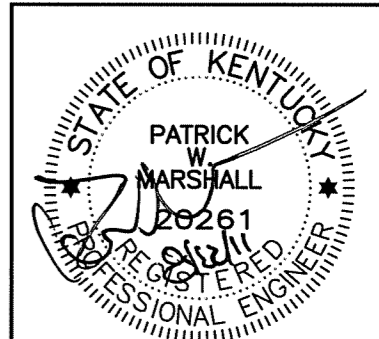
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KY-5006

GRADING & EROSION CONTROL DETAILS

DESIGNED:	DCC
DRAWN:	DCC
CHECKED:	PWM
JOB #:	GTP004

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REINFORCED CONCRETE:

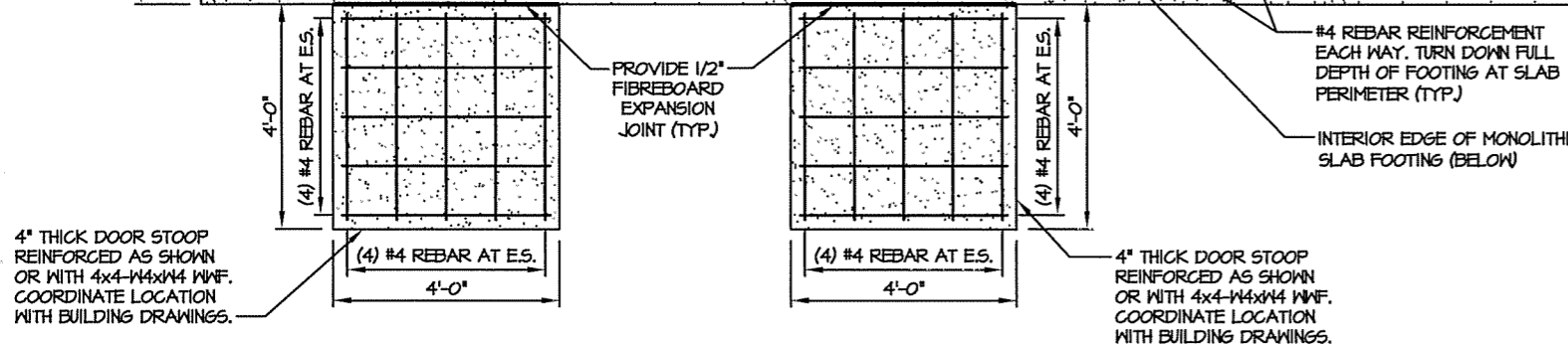
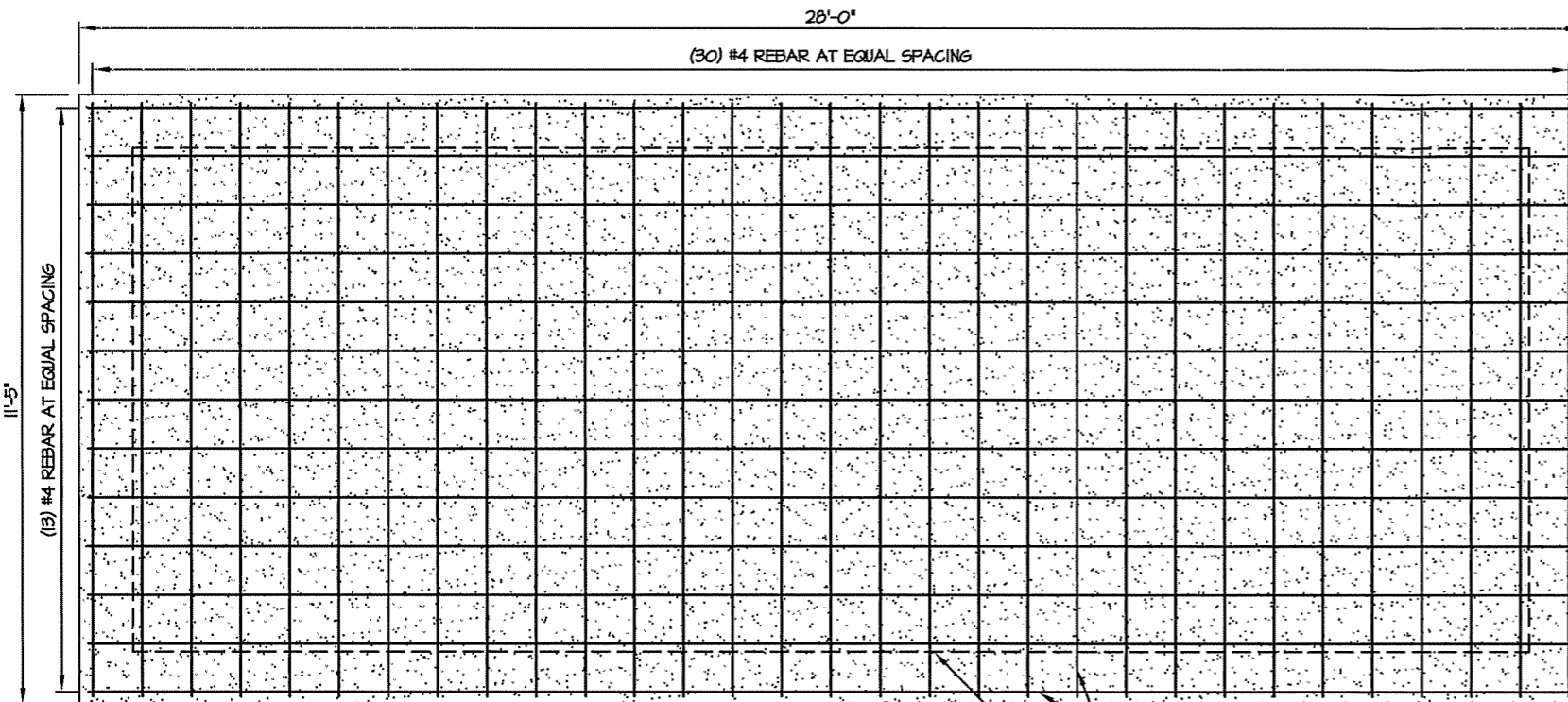
1. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI IN 28 DAYS; CONCRETE CYLINDER TESTS ARE REQUIRED FOR 7, 14, AND 28 DAY STRENGTHS, AND SHALL BE CONDUCTED BY A QUALIFIED, LICENSED, AND INSURED TESTING COMPANY.

CLASSES OF CONCRETE

CLASS/ STRENGTH	7 DAY MIN. STRENGTH (PSI)	14 DAY MIN. STRENGTH (PSI)	28 DAY MIN. STRENGTH (PSI)	NOTES
TYPE I - 3000 PSI	2110	2645	3000	NORMAL WT.
TYPE I - 4000 PSI	2815	3525	4000	NORMAL WT.
TYPE I - 5000 PSI	3520	4405	5000	NORMAL WT.

ALL CONCRETE USED SHALL BE 3,000 PSI MIN. OR EQUAL TO THE STRENGTH OF CONCRETE USED IN THE TOWER FOUNDATION, WHICHEVER IS GREATER.

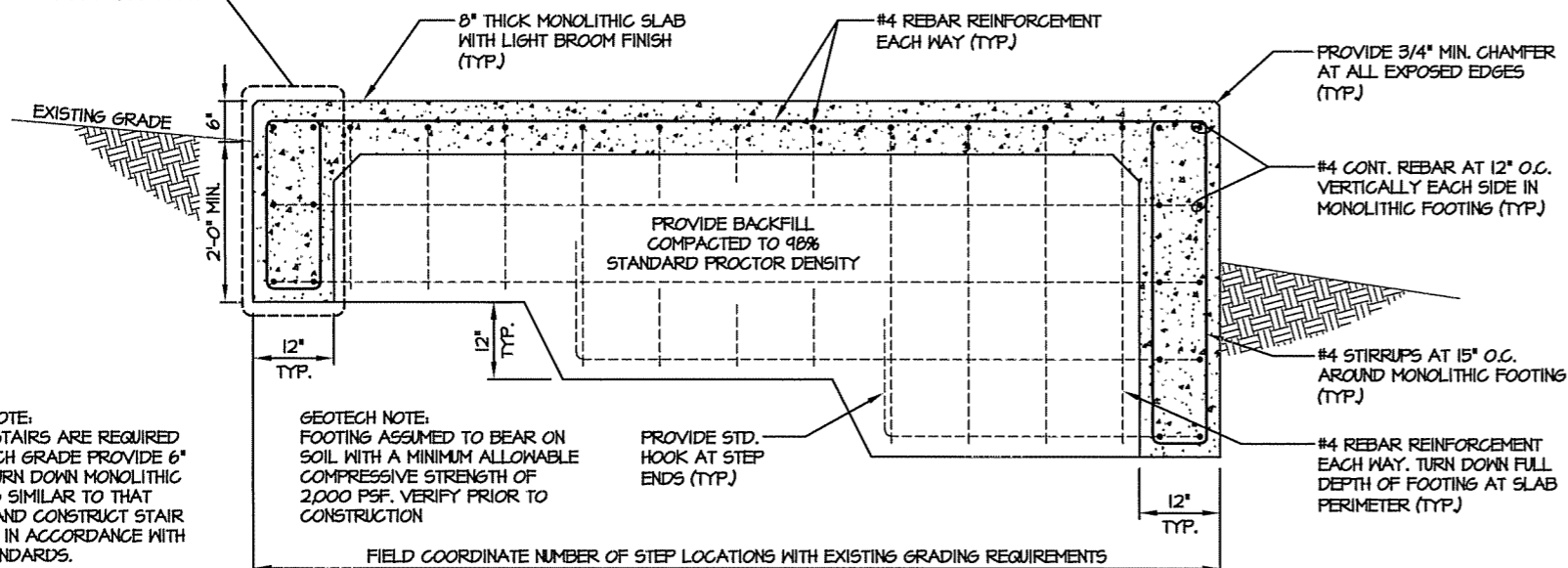
2. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4" REINFORCEMENT SHALL BE NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. MINIMUM REBAR SPLICES SHALL BE 40 DIAMETERS.
3. REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ASCE AND ACI-318 FOR MINIMUM CLEARANCES.
4. ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.
5. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.
6. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.
7. DO NOT USE WELDED WIRE FABRIC IN THE MONOLITHIC SLAB.
8. NO SPLICES OF REINFORCEMENT PERMITTED EXCEPT AS DETAILED OR AUTHORIZED. MAKE BARS CONTINUOUS AROUND CORNERS. WHERE PERMITTED, SPLICES MADE BY CONTRACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.
9. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL - 1985, PUBLICATION SP-66 AND " BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 LATEST EDITION.
10. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AT POSITIONS SHOWN ON PLAN.



4" THICK DOOR STOOP REINFORCED AS SHOWN OR WITH 4x4-W4xW4 WNF. COORDINATE LOCATION WITH BUILDING DRAWINGS.

WHEN THE COMPOUND GRADE IS RELATIVELY LEVEL (±%) AND NO STEPS ARE REQUIRED ALL SIDES OF THE PROPOSED SHELTER FOUNDATION SHALL BE CONSTRUCTED AS DETAILED HERE

MONOLITHIC SLAB DETAIL
NOT TO SCALE



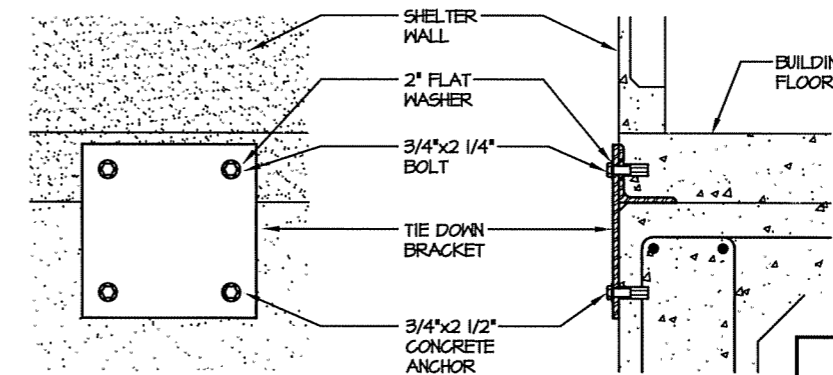
GEOTECH NOTE:
FOOTING ASSUMED TO BEAR ON SOIL WITH A MINIMUM ALLOWABLE COMPRESSIVE STRENGTH OF 2,000 PSF. VERIFY PRIOR TO CONSTRUCTION

PROVIDE STD. HOOK AT STEP ENDS (TYP.)

STAIR NOTE:
WHERE STAIRS ARE REQUIRED TO MATCH GRADE PROVIDE 6" THICK TURN DOWN MONOLITHIC FOOTING SIMILAR TO THAT SHOWN AND CONSTRUCT STAIR TREADS IN ACCORDANCE WITH ACI STANDARDS.

FIELD COORDINATE NUMBER OF STEP LOCATIONS WITH EXISTING GRADING REQUIREMENTS (ONLY WHERE REQUIRED)

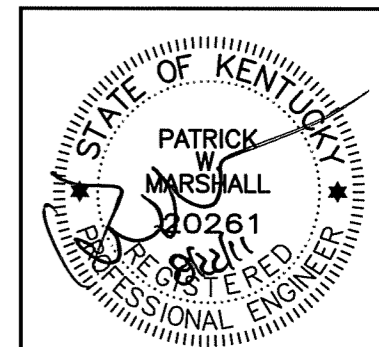
MONOLITHIC SLAB SECTION
NOT TO SCALE



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SECTION

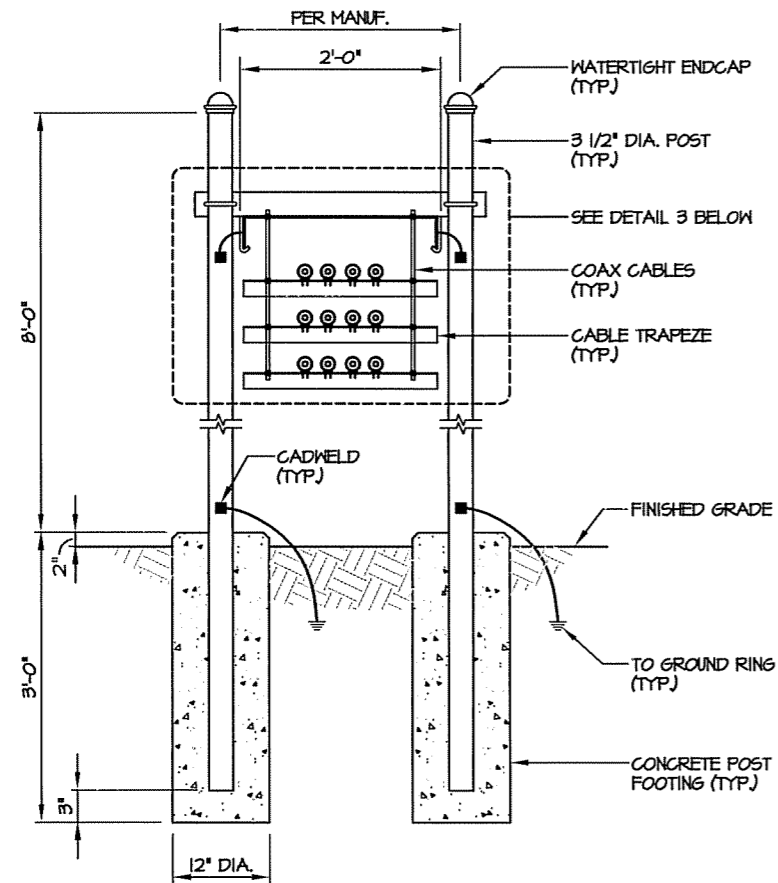
SHELTER ATTACHMENT DETAIL
NOT TO SCALE



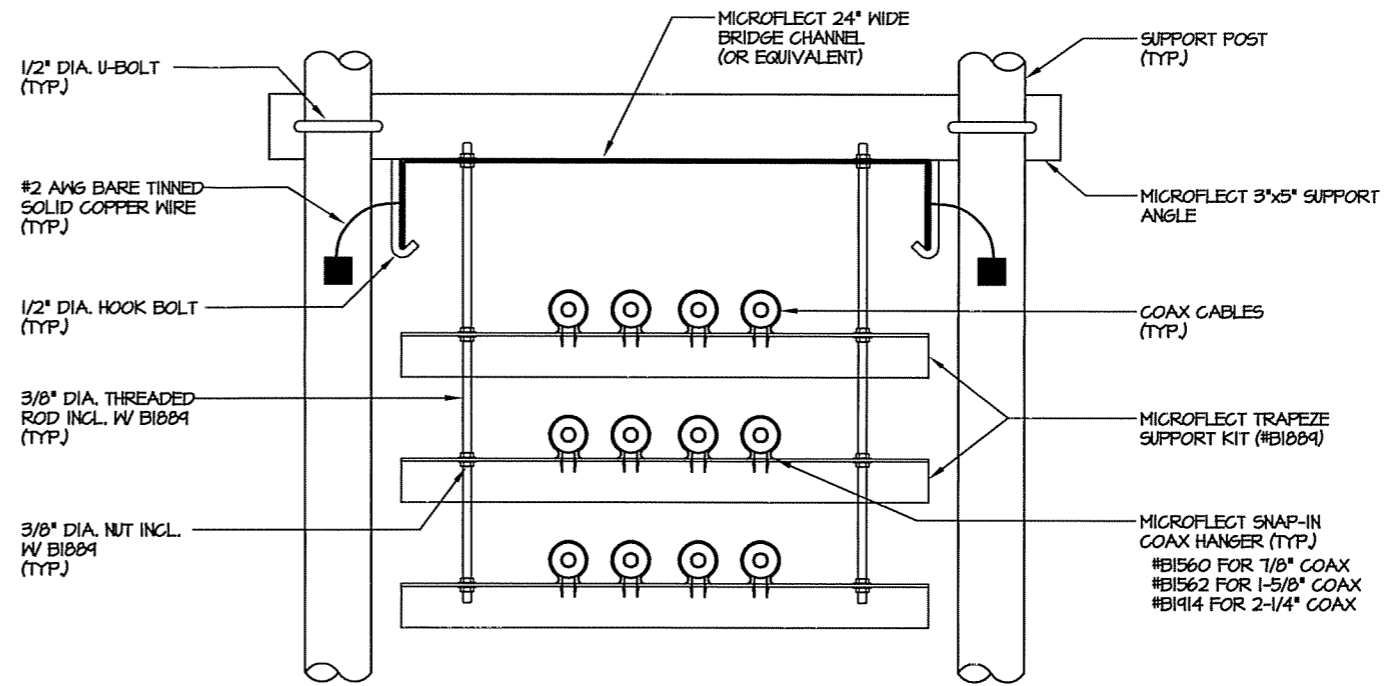
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I	8/22/11	DRIVING DIRECTIONS

KY-5006
**AT&T EQUIPMENT
FOUNDATION DETAILS
& NOTES**

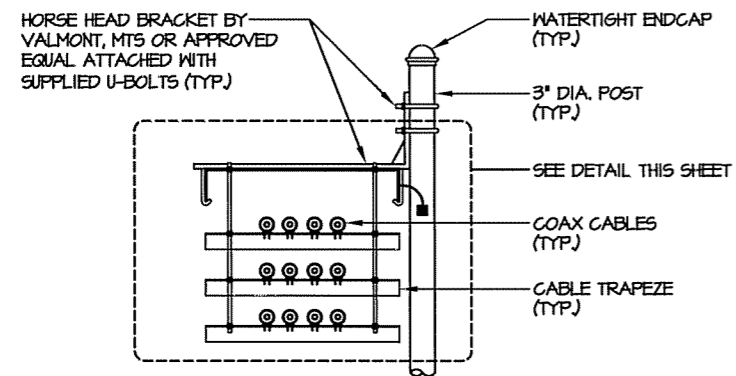
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JOB #: GTP004



ICE BRIDGE SECTION
NOT TO SCALE



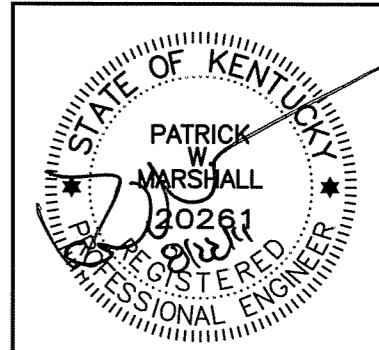
COAX CABLE TRAPEZE DETAIL
NOT TO SCALE



**ICE BRIDGE SECTION
(ALTERNATE HORSE HEAD)**
NOT TO SCALE

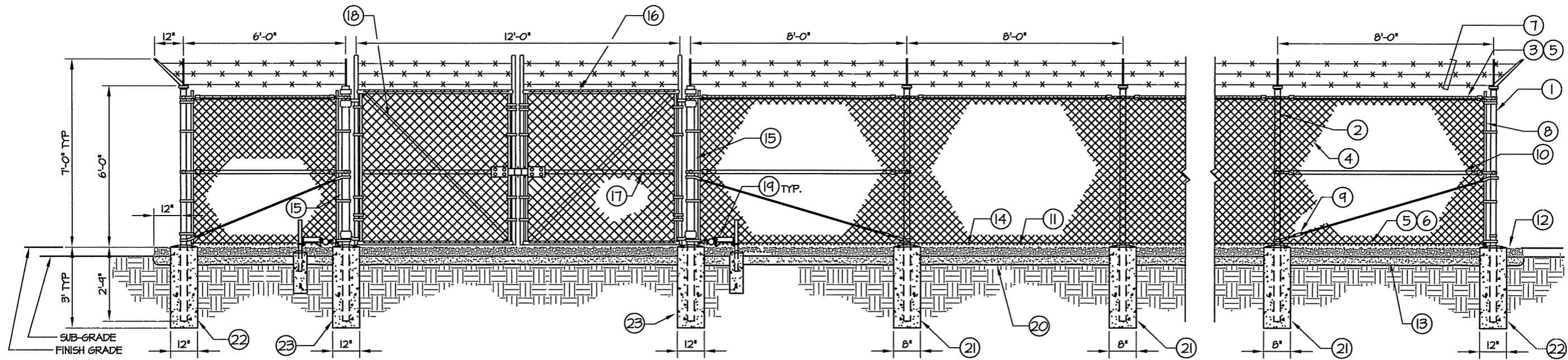
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**COAX ICE
BRIDGE DETAILS**



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CHECKED: PWM
JOB #: GTP004

C-10



REFERENCE NOTES:

- | | |
|--|---|
| <p>① CORNER, END OR FULL POST 3" NOMINAL SCHEDULE 40 PIPE.</p> <p>② LINE POST: 2 1/2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.</p> <p>③ TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.</p> <p>④ FABRIC: 9 GA CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.</p> <p>⑤ TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX. 24" INTERVALS.</p> <p>⑥ TENSION WIRE: 9 GA. GALVANIZED STEEL.</p> <p>⑦ BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH WITH FABRIC 14 GA, 4 FT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.</p> <p>⑧ STRETCHER BAR.</p> <p>⑨ 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.</p> <p>⑩ FENCE CORNER POST BRACE: 1 5/8" DIA. EACH CORNER EACH WAY.</p> <p>⑪ 1 1/2" MAXIMUM CLEARANCE FROM GRADE.</p> | <p>⑫ 2" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.</p> <p>⑬ 4" COMPACTED 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK.</p> <p>⑭ FINISH GRADE SHALL BE UNIFORM AND LEVEL.</p> <p>⑮ GATE POST 4" SCHEDULE 40 PIPE, FOR GATE WIDTHS UP THRU 7 FEET OR 14 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083.</p> <p>⑯ GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.</p> <p>⑰ GATE FRAME; 1 5/8" DIAMETER PIPE, PER ASTM-F1083</p> <p>⑱ GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE.</p> <p>⑲ DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION.</p> <p>⑳ GEOTEXTILE FABRIC</p> <p>㉑ LINE POST: CONCRETE FOUNDATION (2000 PSI)</p> <p>㉒ CORNER POST: CONCRETE FOUNDATION (2000 PSI)</p> <p>㉓ GATE POST: CONCRETE FOUNDATION (2000 PSI)</p> |
|--|---|

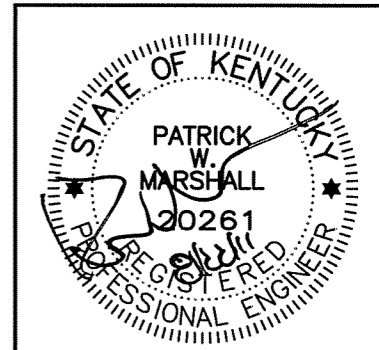
GENERAL NOTES:

1. INSTALL FENCING PER ASTM F-567
2. INSTALL SWING GATES PER ASTM F- 900
3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED.
4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 1 1/2" GALV. (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
5. ALL OPEN POSTS SHALL HAVE END-CAPS.
6. USE GALVANIZED HOG-RING WIRE TO MOUNT ALL SIGNS.
7. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC.

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FENCE DETAILS



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JOB #:	GTP004

C-11



AT&T SIGNAGE NOTES:

1. SIGNS SHALL MEASURE 8" x 12" & BE FABRICATED FROM CORROSION RESISTANT PRESSED METAL & PAINTED WITH LONG LASTING UV RESISTANT COATINGS.
2. SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL BE MOUNTED TO THE TOWER, GATE & FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (FENCE) OR BRACKETS, WHERE NECESSARY. BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.
3. ADDITIONAL E911 ADDRESS & FCC REGISTRATION SIGNS SHALL BE MOUNTED AT EACH ACCESS ROAD GATE LEADING TO THE COMPOUND AS WELL AS ON THE COMPOUND GATE ITSELF.
4. AT&T SITE # & EMERGENCY CONTACT SIGNS SHALL BE MOUNTED ON THE EQUIPMENT CABINET WITH PERMANENT SET ADHESIVE. TWO SIDED TAPE SHALL BE UTILIZED AT EACH CORNER ON THE BACKSIDE TO AID PLACEMENT UNTIL THE ADHESIVE SETS.

**SITE #
WV632**

SITE # IDENTIFICATION SIGN
WHITE BACKGROUND, BLACK LETTERING
MOUNTING LOCATION: EQUIPMENT CABINET
QUANTITY: 1

INFORMATION

AT&T operates telecommunications antennas at this location.

Stay back a minimum of 3 feet from any antenna.

Obey all posted signs & site guidelines.

Contact the owner(s) of the antenna(s) & follow their instructions prior to performing any repairs or maintenance within a restricted area or closer than 3 feet from their antenna(s).

Contact AT&T at _____ prior to doing any work near AT&T antennas. This is Site # _____

Contact the management office if this door, hatch, or gate is found unlocked.

INFORMATION RF EXPOSURE SIGN
WHITE/TEAL BACKGROUND, BLACK/WHITE LETTERING
MOUNTING LOCATION: GATE
QUANTITY: 1

**IN CASE OF
EMERGENCY
CALL
1-800-298-3551**

EMERGENCY CONTACT SIGN
WHITE BACKGROUND, BLACK LETTERING
MOUNTING LOCATION: EQUIPMENT CABINET
QUANTITY: 1

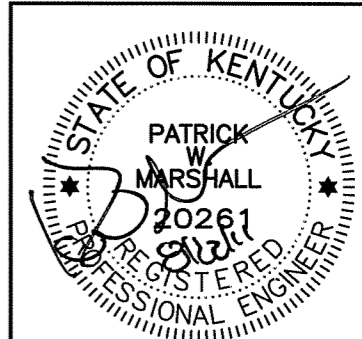
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AT&T SITE SIGNAGE

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JOB #: GTP004

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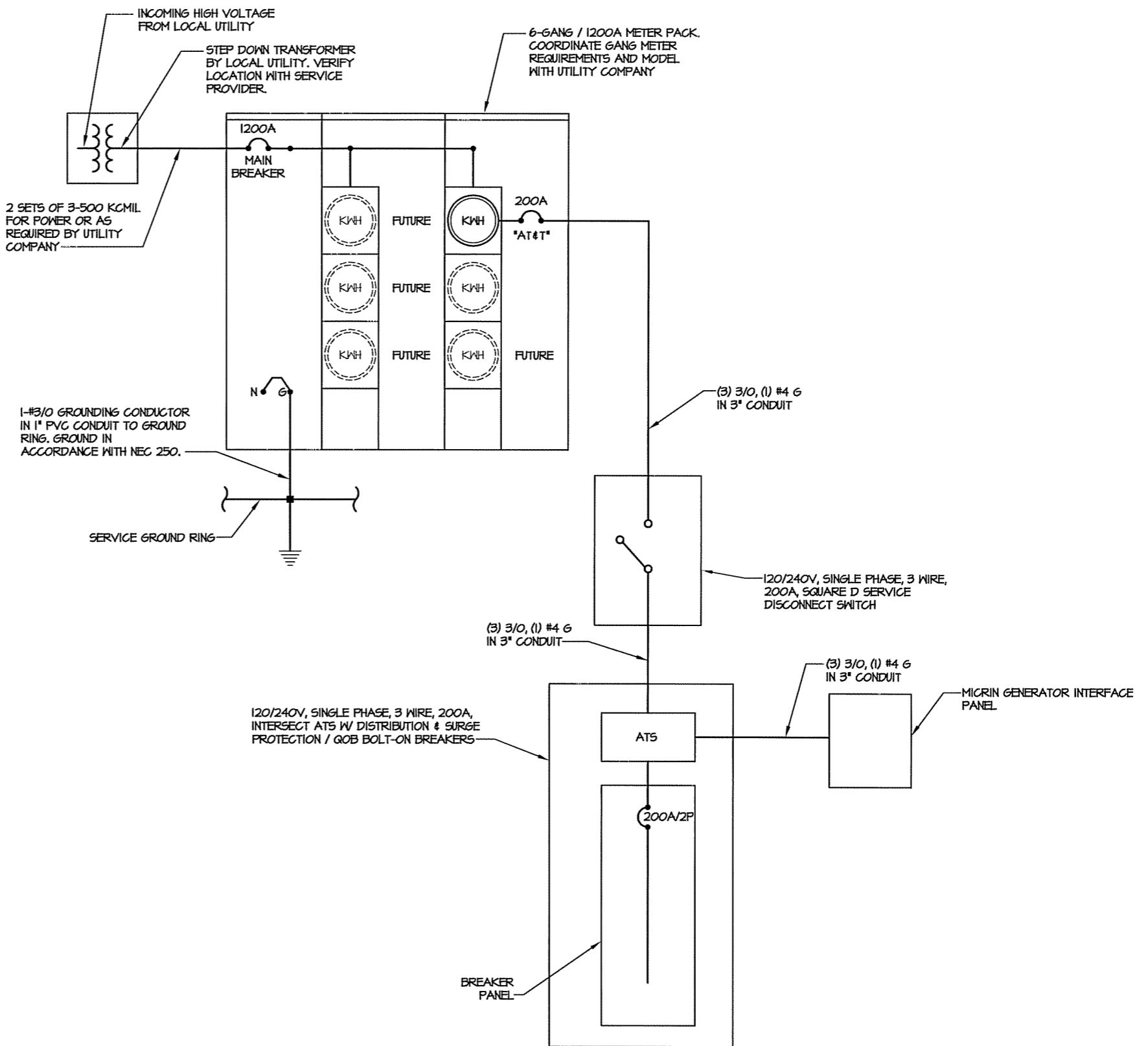


ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
2. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.
3. WIRING, RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
4. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
5. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
6. EACH END OF EVERY POWER, POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (NET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THIN OR THIN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (NET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER), 600 V, OIL RESISTANT THIN OR THIN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (NET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
13. ALL POWER AND POWER GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
14. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
15. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
16. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
17. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
18. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
19. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
20. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
21. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND NEC.
22. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
23. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
24. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
26. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
27. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.

ELECTRICAL INSTALLATION NOTES

NTS



NOTE:

ALL BUILDING WIRING SHOULD COMPLY WITH THE NEC AND OTHER APPLICABLE CODES.

ONE-LINE DIAGRAM

NTS



30 MANSELL CT
SUITE 103
ROSWELL, GA 30076
678-280-2325



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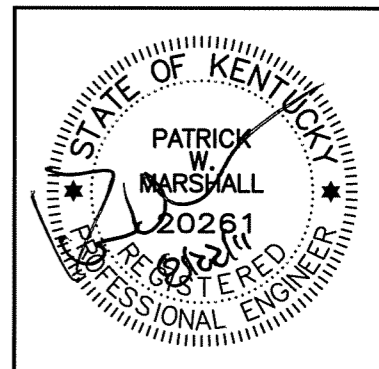
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SITE NAME

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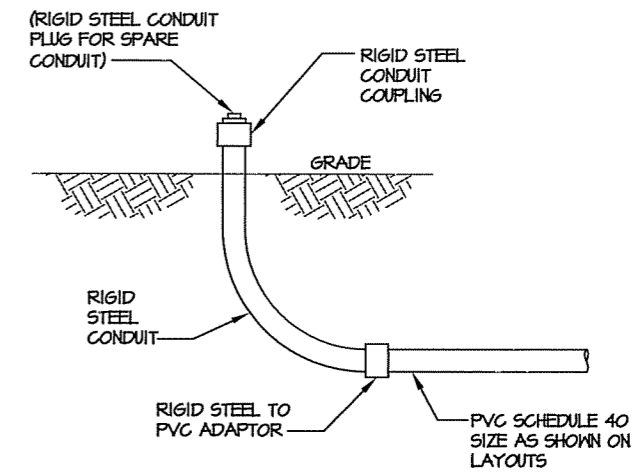
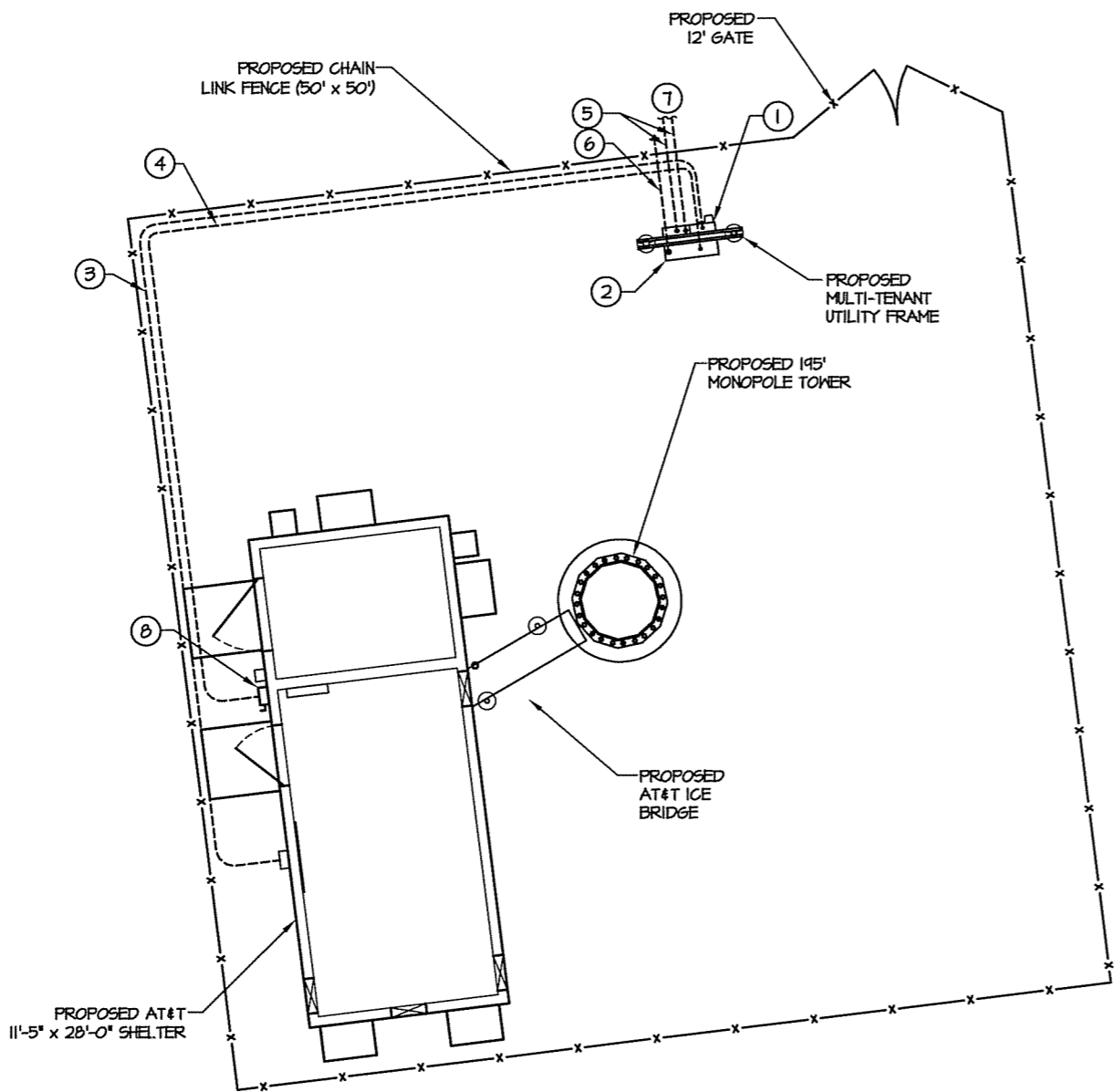
JOB #: GTP004

E-1

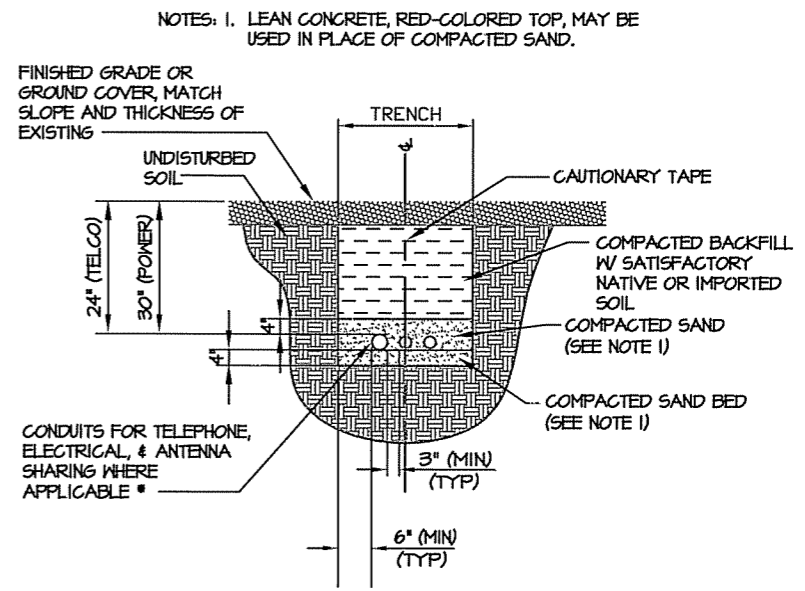


ELECTRICAL KEY NOTES:

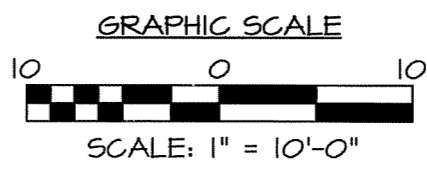
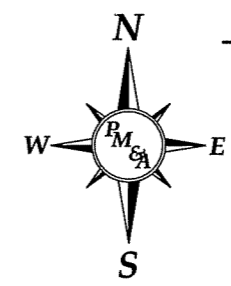
- ① PROPOSED 600A GANG METER PANEL. SEE SHEET E-6 FOR MOUNTING DETAILS. SEE SHEET E-1 FOR ELECTRICAL ONE-LINE DIAGRAM.
- ② PROPOSED TELCO DEMARC CABINET. SEE SHEET E-6 FOR MOUNTING DETAILS.
- ③ PROPOSED (3) 3/0, (1) #4 G IN 3" CONDUIT FROM THE METER TO THE DISCONNECT ON SHELTER.
- ④ PROPOSED 4" CONDUIT WITH (2) FULL STRINGS FROM PROPOSED TELCO DEMARC TO THE EQUIPMENT SHELTER.
- ⑤ PROPOSED (2) 4" PVC CONDUITS FOR POWER SERVICE.
- ⑥ PROPOSED 4" PVC CONDUIT WITH FULLSTRINGS FOR TELCO SERVICE.
- ⑦ STUB UP CONDUITS A MINIMUM OF 2' ABOVE FINISHED GRADE AND GAP AT REQUIRED LOCATION. COORDINATE WITH UTILITY PROVIDER FOR FINAL CONNECTION TO EXISTING UTILITIES.
- ⑧ PROPOSED MANUAL DISCONNECT SWITCH MOUNTED ONTO SHELTER FOR POWER SERVICE CONDUIT.



UNDERGROUND CONDUIT STUB-UP
NTS



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



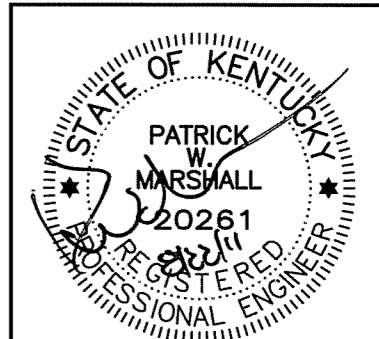
ELECTRICAL SITE PLAN
SCALE: 1" = 10'



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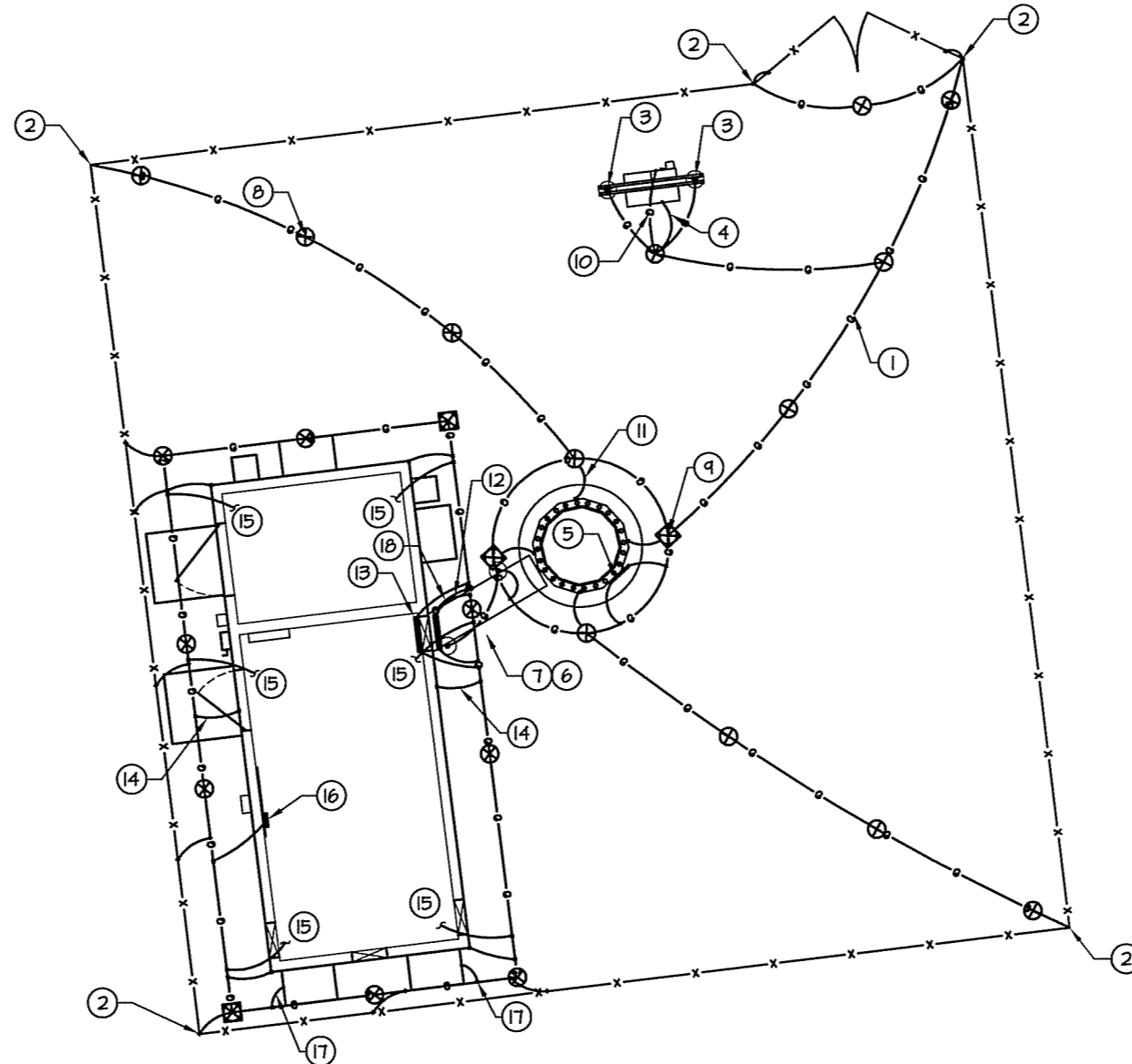
ELECTRICAL SITE PLAN



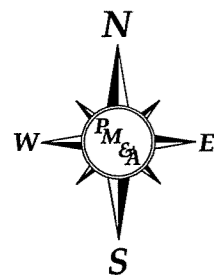
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CHECKED:	PWM

JOB #: GTP004

- ① #2 AWG BARE TINNED SOLID COPPER GROUND RING BURIED 30" BELOW GRADE (TYP)
- ② BOND FENCE & GATE POSTS TO GROUND RING WITH CADWELD CONNECTION (TYP)
- ③ BOND ALL H-FRAME POSTS TO GROUND RING
- ④ BOND TELCO BUSS BAR TO GROUND RING
- ⑤ BOND TOWER MOUNTED GROUND BAR TO TOWER GROUND RING
- ⑥ BOND EACH ICE BRIDGE SECTION TOGETHER WITH JUMPERS. BOND FIRST AND LAST SECTION TO GROUND RING.
- ⑦ BOND EVERY ICE BRIDGE POST BASE TO GROUND RING WITH CADWELD.
- ⑧ PROPOSED GROUND ROD (TYP).
- ⑨ PROPOSED GROUND ROD WITH INSPECTION WELL.
- ⑩ PROPOSED #3/0 GROUNDING CONDUCTOR IN 1" PVC CONDUIT TO GROUND RING. GROUND IN ACCORDANCE WITH NEC 250.
- ⑪ BOND TOWER TO TOWER GROUND RING.
- ⑫ CONNECT EXTERIOR GROUND BAR (UNDER WAVEGUIDE PORT) TO NEW GROUND RING WITH #2 GROUND CONDUCTORS.
- ⑬ CONNECT MASTER GROUND BAR TO EXTERIOR GROUND RING. COORDINATE WITH EQUIPMENT BUILDING MANUFACTURER FOR LOCATION OF WALL PENETRATION.
- ⑭ BOND EACH SHELTER TIE DOWN PLATE TO GROUND RING WITH CADWELD.
- ⑮ PROVIDE GROUND LEADS FROM SHELTER HALO TO GROUND RING (6 PLACES). COORDINATE WITH SHELTER MANUFACTURER FOR LOCATION OF WALL PENETRATIONS.
- ⑯ CONNECT TELCO GROUND BAR TO EXTERIOR GROUND RING. COORDINATE WITH EQUIPMENT BUILDING MANUFACTURER FOR LOCATION OF WALL PENETRATION.
- ⑰ BOND HVAC UNITS TO GROUND RING (TYP)
- ⑱ GROUND GPS ANTENNAS PER MANUFACTURER'S SPECIFICATIONS.



GROUNDING PLAN
SCALE: 1" = 10'

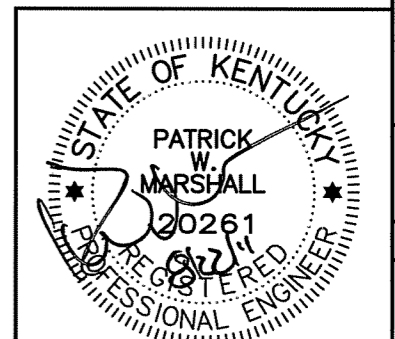


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GROUNDING SITE PLAN

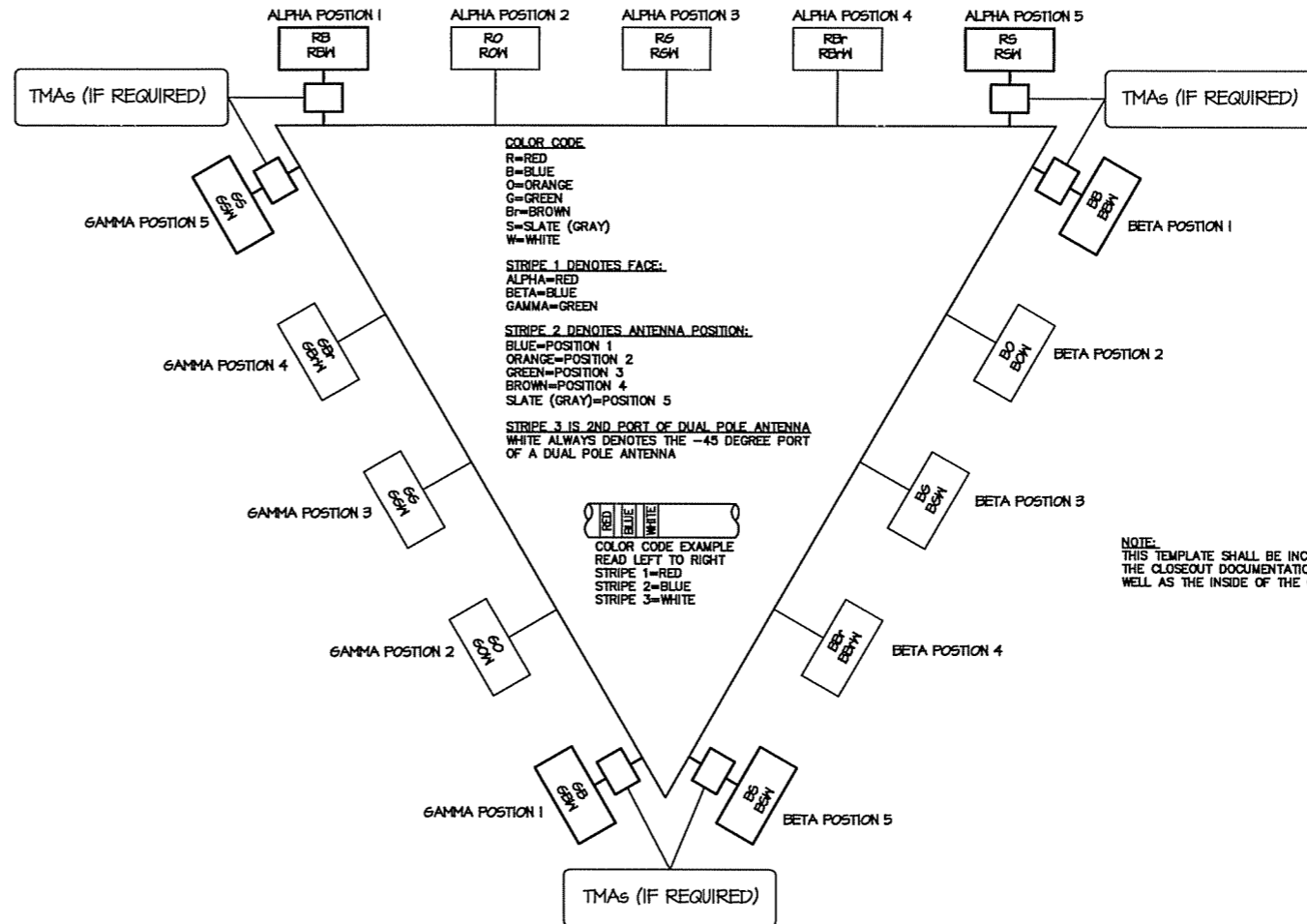
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JOB #:	GTP004

E-3



GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC AND AT&T ND-0007I.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. TESTING SHALL BE IN ACCORDANCE WITH SPECIFICATION 24782-000-3P5-E600-00001. USE OF OTHER METHODS MUST BE PRE-APPROVED BY CONTRACTOR IN WRITING.
3. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. WHEN ADDING ELECTRODES, CONTRACTOR SHALL MAINTAIN A MINIMUM DISTANCE BETWEEN THE ADDED ELECTRODE AND ANY OTHER EXISTING ELECTRODE EQUAL TO THE BURIED LENGTH OF THE ROD. IDEALLY, CONTRACTOR SHALL STRIVE TO KEEP THE SEPARATION DISTANCE EQUAL TO TWICE THE BURIED LENGTH OF THE RODS.
4. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS PER NEC AND AT&T ND-0007I.
6. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
7. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. IN ALL CASES, BENDS SHALL BE MADE WITH A MINIMUM BEND RADIUS OF 6 INCHES.
10. EACH INTERIOR BTS CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH #2 AWG STRANDED, GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES. EACH OUTDOOR CABINET FRAME/PLINTH SHALL BE DIRECTLY CONNECTED TO THE BURIED GROUND RING WITH # 2 AWG SOLID TIN-PLATED COPPER WIRE.
11. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TIN-PLATED COPPER UNLESS OTHERWISE INDICATED.
12. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. CONNECTIONS TO ABOVE GRADE EXTERIOR UNITS SHALL BE MADE WITH EXOTHERMIC WELDS WHERE PRACTICAL OR WITH 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS. HIGH PRESSURE CRIMP CONNECTORS MAY ONLY BE USED WITH WRITTEN PERMISSION FROM AT&T MARKET REPRESENTATIVE.
13. EXOTHERMIC WELDS SHALL BE PERMITTED ON TOWERS ONLY WITH THE EXPRESS APPROVAL OF THE TOWER MANUFACTURER OR THE CONTRACTORS STRUCTURAL ENGINEER.
14. ALL WIRE TO WIRE GROUND CONNECTIONS TO THE INTERIOR GROUND RING SHALL BE FORMED USING HIGH PRESS CRIMPS OR SPLIT BOLT CONNECTORS WHERE INDICATED IN THE DETAILS.
15. ON ROOFTOP SITES WHERE EXOTHERMIC WELDS ARE A FIRE HAZARD COPPER COMPRESSION CAP CONNECTORS MAY BE USED FOR WIRE TO WIRE CONNECTORS. 2 HOLE MECHANICAL TYPE BRASS CONNECTORS WITH STAINLESS STEEL HARDWARE, INCLUDING SET SCREWS SHALL BE USED FOR CONNECTION TO ALL ROOFTOP BTS EQUIPMENT AND STRUCTURAL STEEL.
16. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR USING TWO HOLED MECHANICAL TYPE BRASS CONNECTORS AND STAINLESS STEEL HARDWARE.
17. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
18. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
19. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
20. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF THE BURIED GROUND RING WITH # 2 SOLID AWG TIN-PLATED COPPER GROUND CONDUCTOR.
21. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT WITH LISTED BONDING FITTINGS.
22. GROUND ALL RF EQUIPMENT INCLUDING BUT NOT LIMITED TO COAX, DIPLEXERS, SURGE ARRESTORS, TMA's, ANTENNAS, & ANTENNA MASTS PER NEC AND AT&T ND-0007I.



COAX COLOR CODE TEMPLATE

NTS

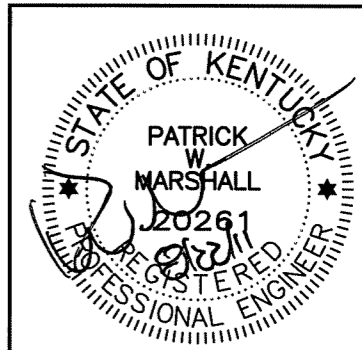


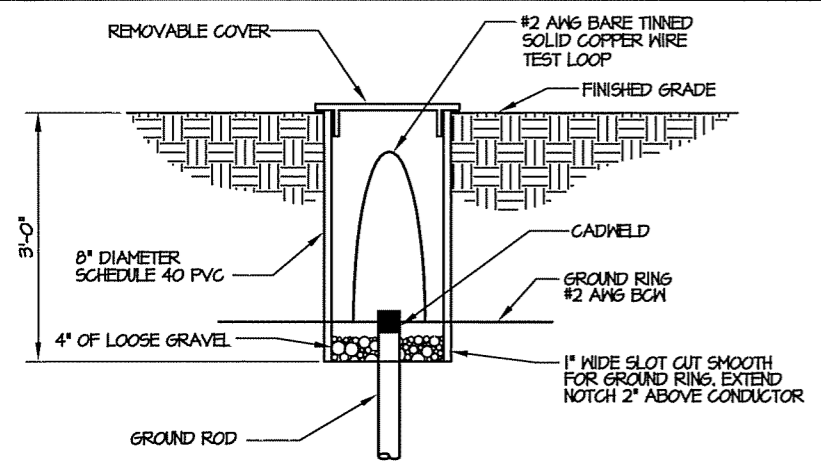
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ISSUED FOR REVIEW	6/15/11	A
ISSUED FOR PERMITTING & CONSTRUCTION	6/24/11	O
DRIVING DIRECTIONS	8/22/11	I

GROUNDING NOTES & COAX COLOR CODE TEMPLATE

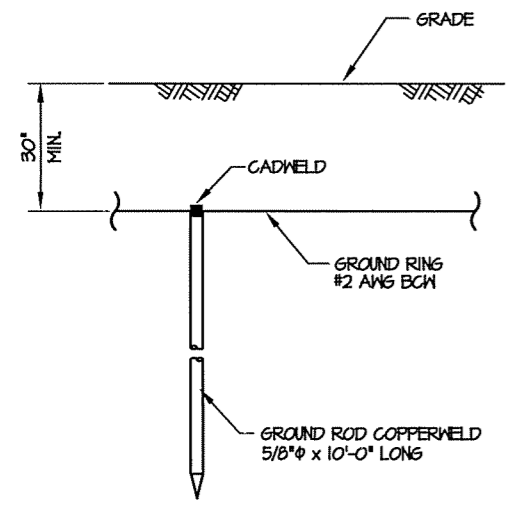
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CHECKED:	PWM
JOB #:	GTP004

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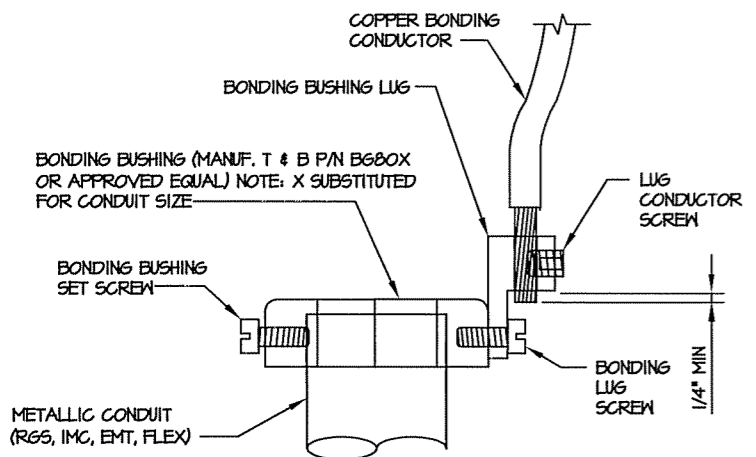




GROUND ROD INSPECTION WELL
NOT TO SCALE



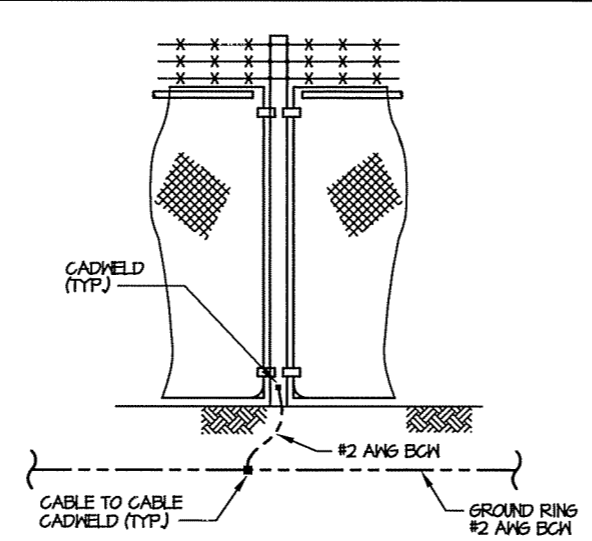
GROUND ROD DETAIL
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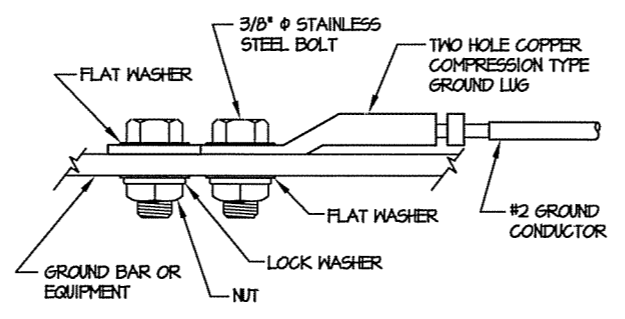
DIRECTIONS:
1. MOUNT BONDING BUSHING ONTO CONDUIT
2. TIGHTEN BOND BUSHING SET SCREW
3. INSERT COPPER CONDUCTOR INTO LUG
4. TIGHTEN LUG CONDUCTOR SCREW
5. TIGHTEN BONDING LUG SCREW

NOTE: BONDING BUSHING, SET SCREW, LUG, LUG SCREW, COND. LUG SCREW, SHOWN AS COMPLETE UNIT.

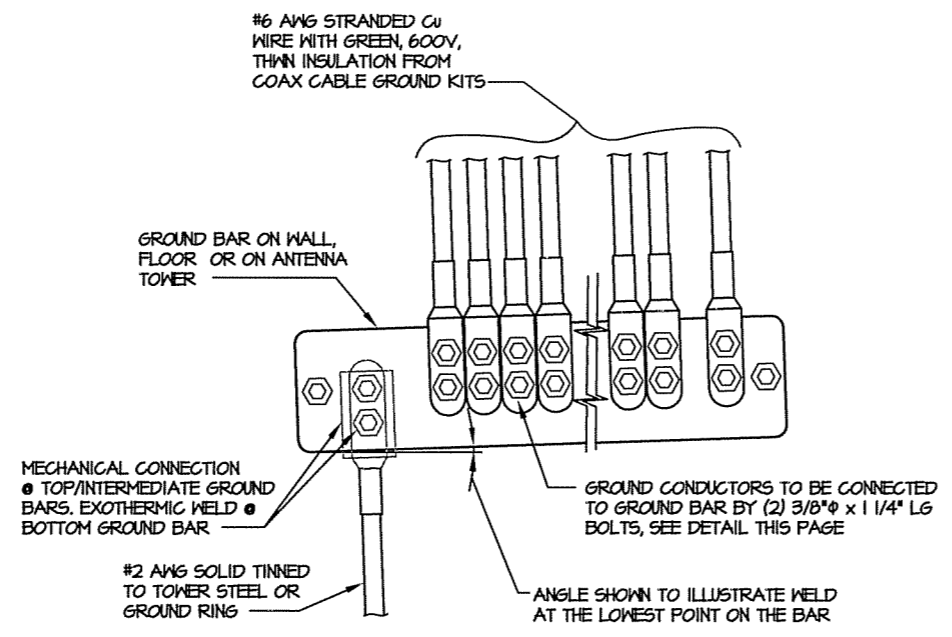
CONDUIT BOND/GROUND BUSHING
NTS



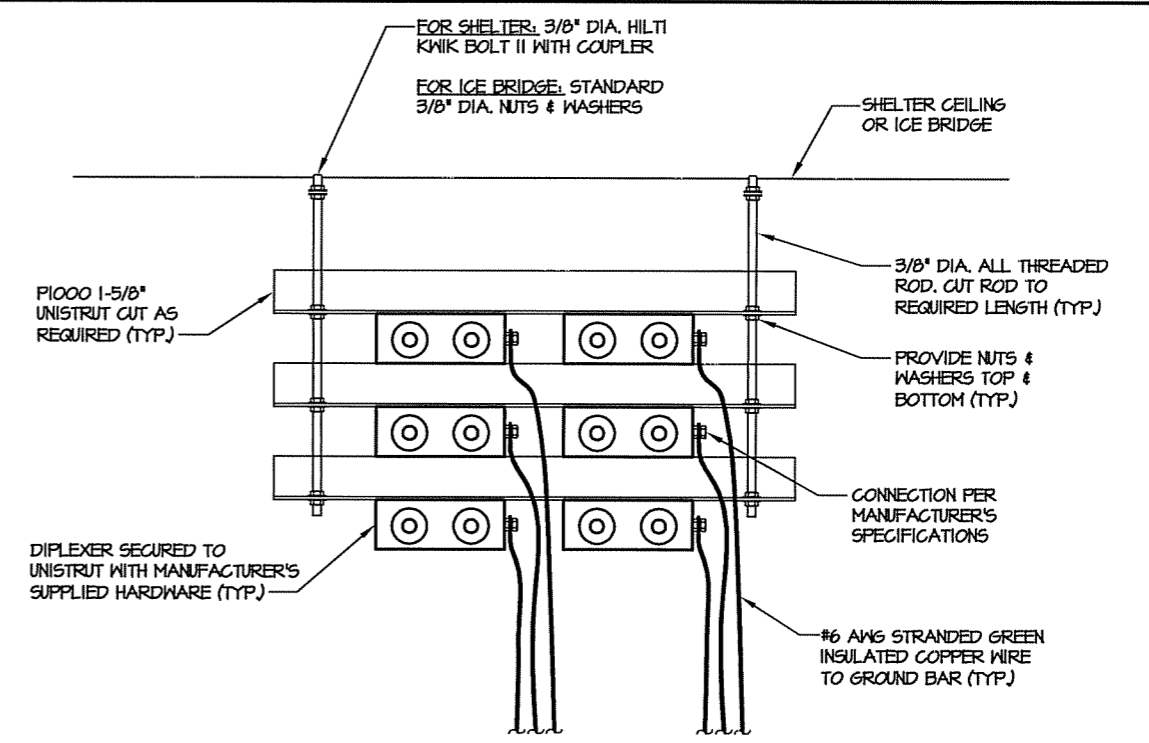
FENCE GROUNDING
NOT TO SCALE



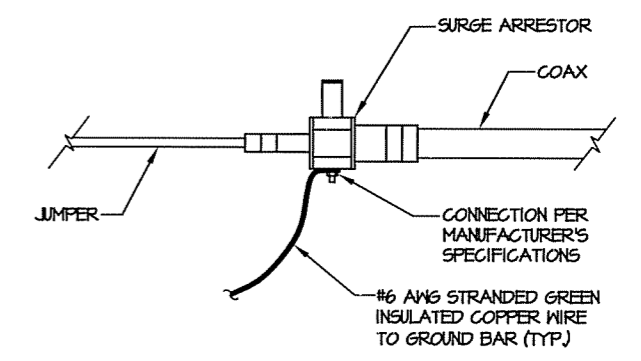
MECHANICAL GROUND CONNECTION
NOT TO SCALE



INSTALLATION OF GROUND WIRE TO COAX CABLE GROUND BAR
NTS

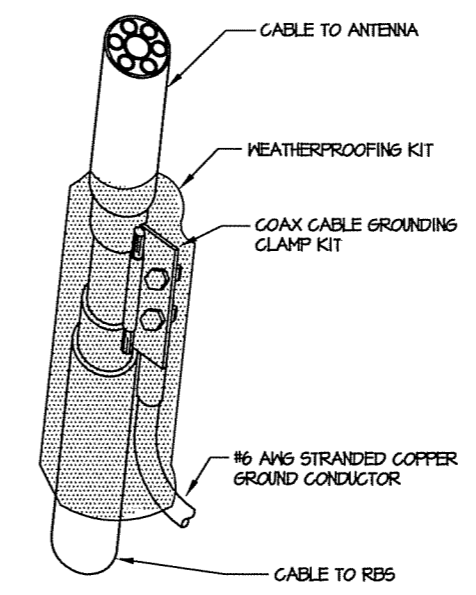


DIPLEXER GROUNDING DETAILS
NOT TO SCALE



NOTE: ON OUTDOOR SITES, INSTALL WEATHERPROOFING AT EACH CONNECTION PER AT&T SPECIFICATIONS

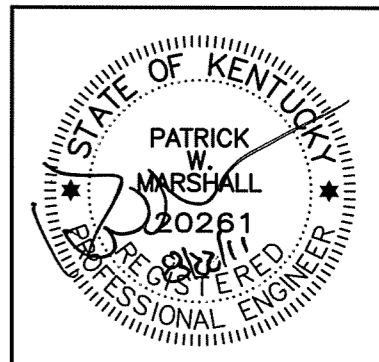
SURGE ARRESTOR GROUNDING DETAILS
NOT TO SCALE



NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND.
- ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR
- GROUNDING KIT & WEATHER PROOFING KIT SHALL BE TYPE & PART # AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

COAX CABLE GROUND KIT
NOT TO SCALE



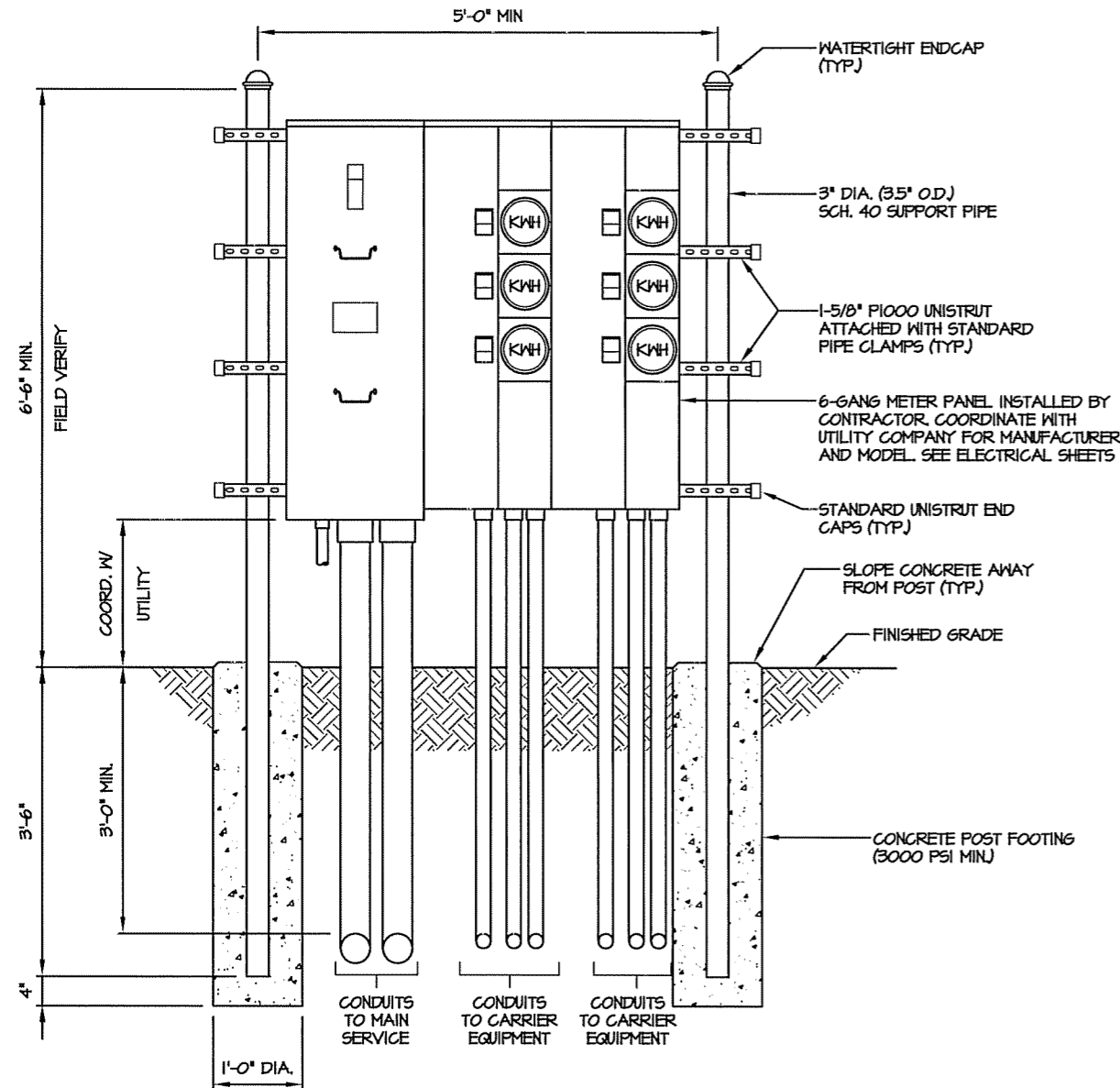
NUM	DATE	DESCRIPTION:
A	6/15/11	ISSUED FOR REVIEW
O	6/24/11	ISSUED FOR PERMITTING & CONSTRUCTION
-	8/22/11	DRIVING DIRECTIONS

KY-5006

GROUNDING DETAILS

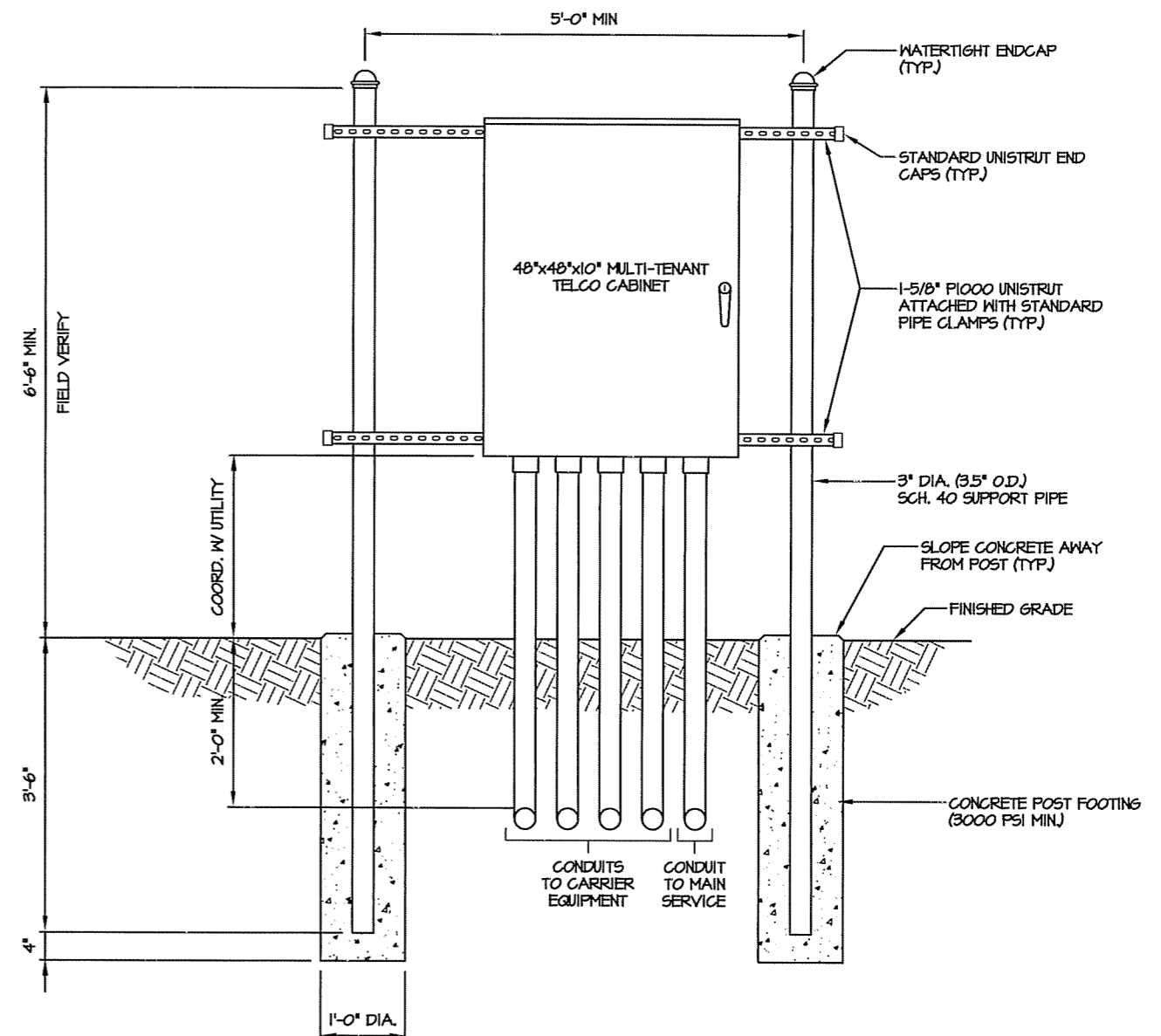
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CHECKED: PWM
JOB #: GTP004

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UTILITY FRAME DETAIL (GANG METER)

NTS



UTILITY FRAME DETAIL (TELCO)

NTS

NOTES:

1. CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
4. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
5. TELCO CABINET SHALL BE 48"x48"x10" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
6. ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND TO EXIST.

NUM	DATE	DESCRIPTION:
A	6/15/11	ISSUED FOR REVIEW
O	6/24/11	ISSUED FOR PERMITTING & CONSTRUCTION
I	8/22/11	DRIVING DIRECTIONS

KY-5006

UTILITY FRAME DETAILS

SITE NAME

DESIGNED: DCC
 DRAWN: DCC
 CHECKED: PWM

JOB #: GTP004

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