COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF)	
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)	
AND HORVATH V. LLC FOR ISSUANCE OF A)	
CERTIFICATE OF PUBLIC)	CASE NO. 2022-00385
CONVENIENCE AND NECESSITY TO CONSTRUCT)	
A WIRELESS COMMUNICATIONS FACILITY)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF BALLARD)	

SITE NAME: BARLOW SE

* * * * * * *

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

Cellco Partnership, d/b/a Verizon Wireless and Horvath V. LLC ("Co-Applicants"), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submit this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Applicant with wireless communications services.

In support of this Application, Co-Applicants respectfully provide and states the following information:

1. The complete name and address of the Co-Applicants:

a. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2421 Holloway Road, Louisville, KY 40299. b. Horvath Towers V. LLC, having a local address of 306 West Main St., Suite 512, Frankfort, KY 40601.

2. Co-Applicant

a. Cellco Partnership, d/b/a Verizon Wireless is a Delaware general partnership and a copy of the Amended Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibit A**-

1.

b. Horvath Towers V. LLC is a Delaware Limited Liability Company organized in the State of Delaware on June 21, 2016. We attest that Horvath Towers V. LLC is in good standing with the State of Delaware and also authorized to transact business in the Commonwealth of Kentucky. A copy of the Certificate of Authority is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibit A-2**.

- 3. Co-Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicant submits this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.
- 4. The Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Applicant's FCC licenses to provide wireless services are attached to this Application or described as part of

Exhibit B, and the facility will be constructed and operated in accordance with applicable FCC regulations.

- 5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicants' services to an area currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant Cellco Partnership, d/b/a Verizon Wireless RF Design Engineer outlining said need is attached as **Exhibit Q-1**. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.
- 6. To address the above-described service needs, Applicant proposes to construct a WCF on the east side of Wayside Inn Road, Wickliffe, KY 42087 (North Latitude: (36° 01' 45.61", West Longitude 89° 00' 07.63"), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Lorea and Kenny Turner pursuant to a Deed recorded at Deed Book 77, Page 464 in the office of the County Clerk. The proposed WCF will consist of a 290-foot tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 295-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicants' radio electronics equipment and appurtenant equipment. The Co-Applicants' equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The

WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

- 7. 7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete along with a map showing the proposed location as well as the identified like facilities is attached as Exhibit E.
- 8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Applicant has also been included as part of **Exhibit C**.
- Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of Exhibit D.
- 10. Co-Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Co-Applicants' antennas on an existing structure. When suitable towers or structures exist, Co-Applicants attempt to co-locate on existing structures such as communications towers or other structures capable of supporting Co-Applicants' facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

- A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as Exhibit F.
- 12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Approval to construct the tower is attached as **Exhibit G**.
- 13. A geotechnical engineering report was performed at the WCF site by Power of Design, Louisville, KY, dated February 28, 2020, and is attached as Exhibit H. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of Exhibit H and R.
- Clear directions to the proposed WCF site from the County seat are attached as Exhibit I. The name and telephone number of the preparer of Exhibit I are included as part of this exhibit.
- 15. Co-Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit J**.
- 16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit D** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations.

- 17. The Construction Manager for the proposed facility is Vince Caprino and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits C & R**.
- 18. As noted on the Survey attached as part of Exhibit C, the surveyor has determined that the tower site and access easement are not within any flood hazard area per Flood Hazard Boundary Map, Community Panel Number 21007C0095C, Dated July 7. 2014.
- 19. **Exhibit C** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). Every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system is illustrated in **Exhibit C**.
- 20. Co-Applicants have notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and will be informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice to be sent by certified mail to each landowner are attached as **Exhibit K** and **Exhibit L**, respectively.

- 21. Co-Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit M**.
- 22. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit N**. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as **Exhibit O**.
- 23. The general area where the proposed facility is to be located is undeveloped and removed a significant distance from any residential structures. The nearest residential structure is 534' feet from the proposed tower site.
- 24. The process that was used by the Co-Applicant Cellco Partnership, d/b/a Verizon Wireless's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Co-Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the

service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Co-Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Co-Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit P**.

- 25. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area, as set out and documented in the RF Design Engineers' Statement of Need and Propagation Maps attached as Exhibit Q-1 and Q-2, respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.
- 26. Notices were sent to all properties within 500' from the proposed site. Green cards from the certified notices were returned for seven (7) of the eight (8) properties entitled to notice as shown in **Exhibit S**. The one (1) returned notice marked undeliverable is also attached under **Exhibit S**.
- 27. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.
- 28. All responses and requests associated with this Application may be directed to:

Russell L. Brown Clark, Quinn, Moses, Scott & Grahn, LLP 320 North Meridian Street, Suite 1100 Indianapolis, IN 46204 Phone: (317) 637-1321 FAX: (317) 687-2344 Email: rbrown@clarkquinnlaw.com

WHEREFORE, Applicant respectfully request that the PSC accept the foregoing Application for filing, and having met the requirements of KRS §§278.020(1), 278.650, and 278 .665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,

Russell L. Brown Clark, Quinn, Moses, Scott & Grahn, LLP 320 North Meridian Street, Suite 1100 Indianapolis, IN 46204 Phone: (317) 637-1321 / FAX: (317) 687-2344 Email: rbrown@clarkquinnlaw.com Attorney for Cellco Partnership d/b/a Verizon Wireless

LIST OF EXHIBITS

A -1 &	& -2 Applicant Entity
В	FCC License Documentation
С	Site Development Plan:
	500' Vicinity Map Legal Descriptions Flood Plain Certification Site Plan Vertical Tower Profile
D	Tower and Foundation Design
Е	Competing Utilities Map
F	FAA
G	KAZC Approval
Н	Geotechnical Report
Ι	Directions to WCF Site
J	Copy of Real Estate Agreement
Κ	Notification Listing
L	Copy of Property Owner Notification
М	Copy of County Judge/Executive notice
Ν	Copy of Posted Notices
0	Copy of Newspaper Legal Notice Advertisement
Р	Copy of Radio Frequency Design Search Area
Q -1	Copy of RF Design Engineer State of Need
Q -2	Copy of RF Design Propagation Maps
R	List of Qualified Professionals
S	Return Receipts from mailing

COMMONWEALTH OF KENTUCKY TREY GRAYSON SECRETARY OF STATE



1 Secretary of State Received and Filed 08/21/2005 12:06:09 PM Fee Roceipt: \$20.03

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of Verizon Hirelean			
has been adopted by See Addendua			
which is the "real name" of rou wast check over a Domestic General Partnership a Domestic Registered Limited Liabisty Partnership	a Foreign General Part		ity Partnership
a Domestic United Partnership	a Foreign Limited Party	q'ıfaren ist	
a Domestic Limited Liability Company	Ling a Foreign Umited Liab		y Whose Address is
Cne Verizoa Way	Basking Ridge	LNJ	07920
The certificate of essented name is executed by			

850-328 (7/M)

(Real advantation and for transmissions)

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COMMONWEALTH OF KENTUCKY ELAINE N. WALKER, SECRETARY OF STATE

Division of Business Filings Business Filings PO Box 718 Frankfort, KY 40602 (502) 564-3490 www.sos.ky.gov		Certificate of Assumed Foreign Business Entity)	Name	AAN
Pursuant to the provisions of KRs purpose, submits the following st	3 365, the undersig atement: rizon Wireles		ficale of assumed	name end, for thet
1. THO BASUMED HOME (a		the name on record with the Secret	uv of State.)	
2. The certificate of assumed na			6/21/2006	
		e estimately of other one		
3 The current principal office ad One Venizon Way	oreas (If any) is:	Peoking Dide-	NU	07000
Street Address of Post Office Box Nun	- h. e en	Basking Ridge	NJ	210
4. The principal office address is	hereby changed to:			
Sinet Address or Post Office Box Nur	nbere "	City	State	Zlp
5. This application will be effective or the delayed effective date can.	ve upon filing, unles not be prior to the d	s a delayed effective date and ate the application is filed. Th	/or time is provider e date and/or time	d. The offective date is (Delayed effective date and/or time)
6. The changes in the identity of	the pertners are as	follows: See Addendu	m for curren	
declare under penalty of perjury	under the laws of H	Centucky that the forgoing is tru	le and correct.	
and al And	GTE Wirelese	Incorporated		
Senature of Applicant	Jana A. Schap	ALL	sistant Secretary	1/21/2012 Date
A second se	· · · · · · · · · · · · · · · · · · ·			Charles .

(04/11)

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Addendum

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1.

The full name of the Partnership is Cellco Partnership, a Delaware general partnership composed of the following partners;

General Pariners of Cellco Parinership	Address
Bell Atlantic Mobile Systems LLC	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	Denver Place South Tower 999-18 th Street, Suite 1750 Denver, CO 80202
JV PartnerCo, LLC	Denver Place South Tower 999-18 th Street, Suite 1750 Denver, CO 80202

amcray ADD

Alison Lundergan Grimes Kentucky Secretary of State Received and Filed: 6/13/2017 1:26 PM Fee Receipt: S90.00

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COMMONWEALTH OF KENTUCKY ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

Division of Business Filings	Certificate of Aut	hority		FBE
Business Filings PO Box 718, Frankfort, KY 40602 (502) 564-3490 www.sos.ky.gov	(Foreign Business Entity)			
Pursuant to the provisions of KRS 14 on behalf of the entity named below i	A and KRS 271B, 273, 274,275, 362 and, for that purpose, submits the fol	2 and 386 the undersigne lowing statements:	d hereby applies for authorit	y to transact business in Kentuc
limited pa	trust (KRS 386). (X) limited rtnership (KRS 362). (III) Itd coo	ofit corporation (KRS 273 liability company (KRS 2 perative assn. (KRS) rative assn. (KRS)		rvice corporation (KRS 274) itted fiability company (KRS 275)
2. The name of the entity is HORV (The	ATH TOWERS V, LLC name must be identical to the name or	record with the Secretary	of State.)	•••••••••••••••••••••••••••••••••••••••
3. The name of the entity to be used	in Kentucky is (if applicable):		unavailable for use; otherwise	
4. The state or country under whose	law the entity is organized is. Delay		unavailable for use; otherwise	, leave blank.)
5. The date of organization is 6/21/		and the period of d	uration is	'
			(If left blank, the period	of duration is considered perpetu-
The mailing address of the entity's 312 W. Colfax Ave	s principal office is	South Bend	IN	46601
Street Address		City	State	Zip Code
7. The street address of the entity's	registered office in Kentucky is	·		
306 West Main Street - Suite 51		Frankfort	KY	40601
Streel Address (No P.O. Box Numbers)		City	State	Zip Code
and the name of the registered agent	at that office is CT Corporation S	System		
8. The names and business address	es of the entity's representatives (se	cretary, officers and direct	clors, managers, trustees or	general partners):
Jacqueline L. Stout	312 West Colfax Ave.	South Bend	iN	46601
Name	Street or P.O. Box	City	State	Zip Code
F. Howard Mandel	86 West Street	Chagrin Falls	OH	44022
Name	Street or P.O. Box	City	State	Zip Code
Name	Street or P.O. Box	City	State	Zip Code
more states or territories of the United States 10. I certify that, as of the date of filin 11. If a limited pannership, it elects to 12. If a limited liability company, ch 13. This application will be effective t	Individual shareholdes, not less than one h or District of Columbia to render a profession g this application, the above-named b be a limited liability limited partners eck box if manager-managed: upon filing, unless a delayed effective clive date cannot be prior to the date n which your business operates:	al service described in the stat entity validly exists under hip. Check the box if ap date and/or time is prov	ement of purposes of the corporal r the laws of the jurisdiction c plicable:	on.
		ing, please shade the box		
Please indicate the size of your busine Small (Fewer than 50 employees) Large (50 or more employees)	ess: Please Indicate wheth Women-Owned		ke up more than lifty percent Minority Owned	(50%) of your business ownership
Please indicate which of the following	best describes your business:			
	ining Services tail Trade Manufacturing ansportation, Communications, Electric,		on surance, Real Estate	
ACT		Jacqueline L. Stout, N	ember	1-6-17
Signature of Authorized Representative		Printed Name & T	itle	G-G-T
I CT Corporation System Type/Print Name of Registered Agent			registered agent on behalf o	of the business entity.
Aul Illain		ation System	Assistant Secret	ary 06/7/2017
Signature of Registered Agent	Printed Name		Title	Date

(05/17)

Commonwealth of Kentucky Michael G. Adams, Secretary of Sta

0988137 Michael G. Adams KY Secretary of State Received and Filed 1/10/2020 2:27:56 PM Fee receipt: \$15.00

Michael G. Adams Secretary of State P. O. Box 1150 Frankfort, KY 40602-1150 (502) 564-3490 http://www.sos.ky.gov	Annual Report Online Filing	ARP
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Company:HORVCompany ID:09881State of origin:DelawFormation date:6/13/2Date filed:1/10/2Fee:\$15.00

HORVATH TOWERS V, LLC 0988137 Delaware 6/13/2017 12:00:00 AM 1/10/2020 2:27:56 PM \$15.00

Principal Office

312 W. COLFAX AVE. SOUTH BEND, IN 46601

Registered Agent Name/Address

Jacqueline Stout

CT CORPORATION SYSTEM 306 WEST MAIN STREET SUITE 512 FRANKFORT, KY 40601

Members/Managers

Manager

312 W Colfax Ave, South Bend IN 46601

Business type:

Communications

Signatures

Signature Title Matthew C. Deputy, Esq. Attorney-in-fact

LARP



UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION ANTENNA STRUCTURE REGISTRATION



OWNER: Kentucky RSA No. 1 Partnership

FCC Registration Number (FRN): 0001836709

ATTN: Network Regulatory Kentucky RSA No. 1 Partnership	Antenna Structure Registration Number 1313667
5055 North Point Pkwy	
NP2NE Network Engineering Alpharetta, GA 30022	Issue Date
	02/05/2020
Location of Antenna Structure	Ground Elevation (AMSL)
TBD Wayside Inn Road - 2505006	425.0
Wickliffe, KY 42087	135.0 meters
County: BALLARD	Overall Height Above Ground (AGL)
oouniy.	89.9 meters
Latitude Longitude	Overall Height Above Mean Sea Level (AMSL)
37- 01- 45.6 N 089- 00- 07.6 W NAD83	
Center of Array Coordinates	224.9 meters Type of Structure
	LTOWER
N/A	
	Lattice Tower
Painting and Lighting Requirements:	
FAA Chapters 4, 8, 12	
FAA Chapters 4, 6, 12	
Paint and Light in Accordance with FAA Circular Number 70/7460-1L	
O an dittance	
Conditions:	

This registration is effective upon completion of the described antenna structure and notification to the Commission. YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854. To file electronically, connect to the antenna structure registration system by pointing your web browser to <u>http://wireless.fcc.gov/antenna</u>. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and *display* your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

Posting the Registration Number: The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).

Inspecting lights and equipment: The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.

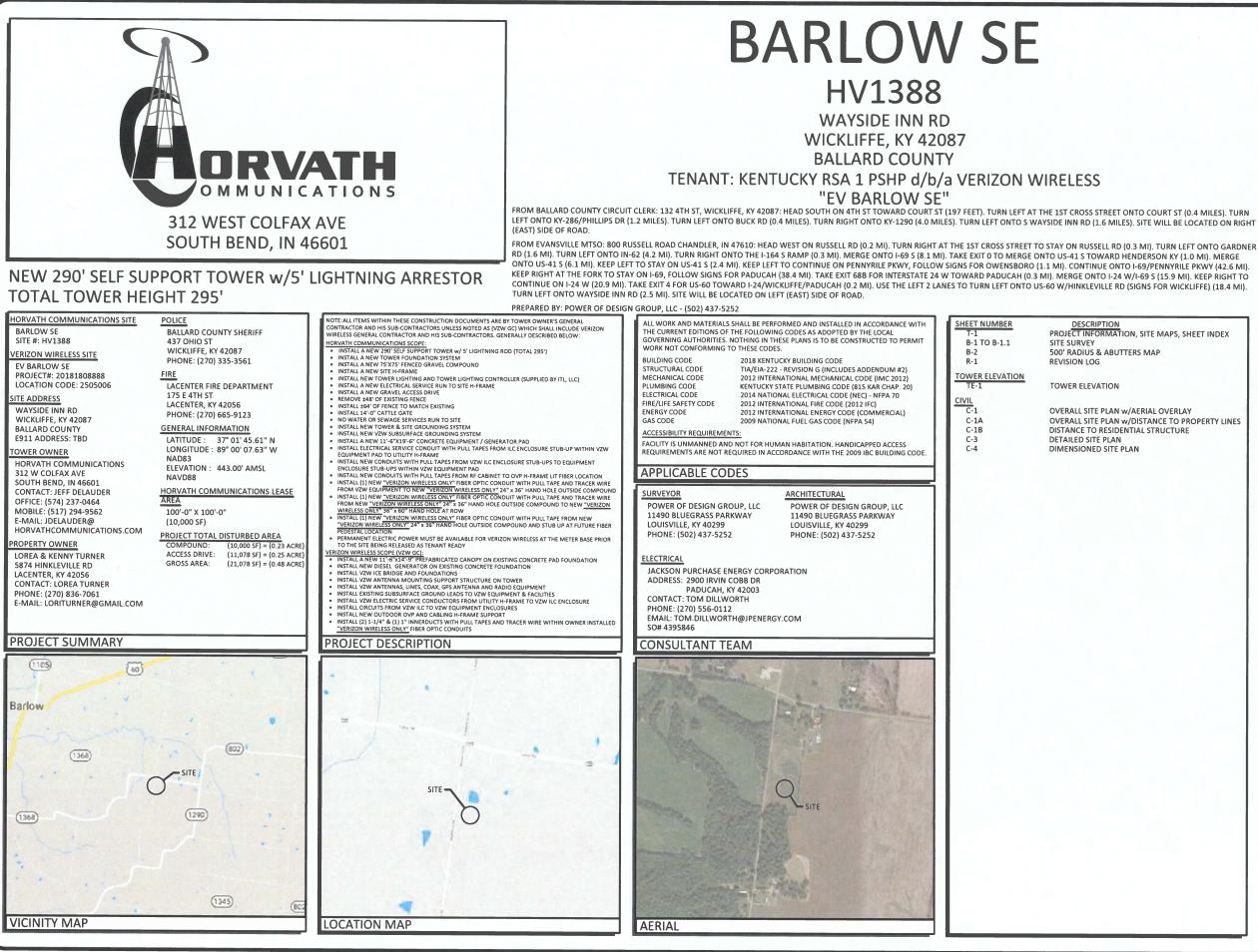
Reporting outages and malfunctions: When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.

Maintaining assigned painting: The antenna structure must be repainted as often as necessary to maintain good visibility.

Complying with environmental rules: If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).

Updating information: The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

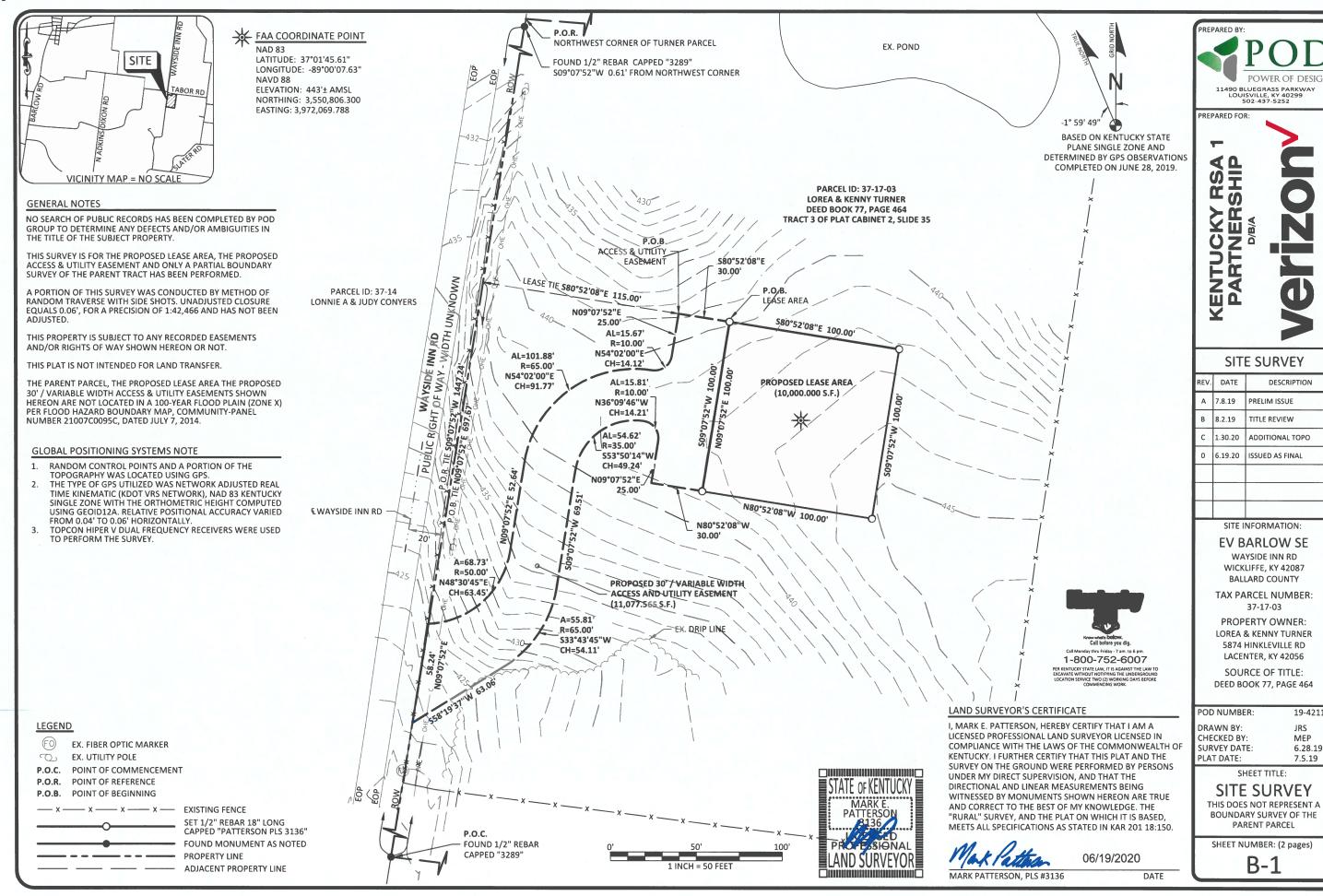
You can find additional information at [insert link] or by calling (877) 480-3201 (TTY 717-338-2824).



DESCRIPTION PROJECT INFORMATION, SITE MAPS, SHEET INDEX

OVERALL SITE PLAN w/AFRIAL OVERLAY OVERALL SITE PLAN w/DISTANCE TO PROPERTY LINES DISTANCE TO RESIDENTIAL STRUCTURE

-		
1:		POWER OF DESIGN UEGRASS PARKWAY WILLE, KY 40299 22-437-5252
	-	DRVATH MMUNICATIONS VEST COLFAX AVE
	SOUT	H BEND, IN 46601
		2/2022
	STATE O	MARK E. ATTERSON 16,300
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		ERMIT: 3594
	7	ONING
		AWINGS
REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL
1	8.26.22	UPDATED CURRENT
	SITE	INFORMATION:
	BA	RLOW SE
	WICH	AYSIDE INN RD KLIFFE, KY 42087 LARD COUNTY
		ATH SITE NUMBER: HV1388
-		WIRELESS SITE NAME:
		BARLOW SE
POD	NUMBER	19-42124
		POD MEP 03.10.20
		HEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX		
	SHI	EET NUMBER:
		T-1 I



DESCRIPTION

19-4211

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7.5.19

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3289" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS S09°07'52" W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3289" BEING SOUTH S09°07'52" W 0.61' FROM SAID NORTHWEST CORNER, THENCE WITH SAID TURNER LINE, N09°07'52" W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52" 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00'; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING **THE TRUE POINT OF BEGINNIN**G; THENCE S80°52'08"E 100.00' TO A SET IPC; THENCE N80°52'08"W 100.00' TO A SET IPC; THENCE N80°52'08"E 100.00' TO A SET IPC; THENCE S80°52'08"W 100.00' TO A SET IPC; THENCE N80°52'08"E 100.00' TO A SET IPC; THENCE S80°52'08"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000' TO A SET IPC; THENCE S80°52'08"E 100.00' TO THE POINT OF BEGINNING CONTAINING S000' S0UARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JUNE 28, 2019.

PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS AND UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3289" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS S09°07'52" W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3289" BEING SOUTH S09°07'52" W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52" E 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00' TO **THE TRUE POINT OF BEGINNING**; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA; S09°07'52" W 100.00' TO A SET 1/2", THENCE LEAVING SAID LEASE AREA, N80°52'08" W 30.00'; THENCE ALONG PROPOSED LEASE AREA, S09°07'52" W 100.00' TO THE LEFT HAVING AN ARC LENGTH OF 15.81', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF N36°09'46"W, AND A CHORD LENGTH OF 14.21'; THENCE ALONG THE ARC OF A COMPOUND CURVE TO THE LEFT HAVING AN ARC LENGTH OF 54.62', WITH A RADIUS OF 35.00', WITH A CHORD BEARING OF S33°43'45"W, AND A CHORD LENGTH OF 54.11'; THENCE ALONG THE ARC OF A COMPOUND CURVE TO THE LEFT HAVING AN ARC LENGTH OF 53.50'14"W, AND A CHORD LENGTH OF 54.01', WITH A CHORD BEARING OF S33°43'45"W, AND A CHORD LENGTH OF 54.24'; THENCE ALONG SAID TURNER, INFE, NO9°07'52" E 52.64'; THENCE ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 63.73', WITH A RADIUS OF 50.00', WITH A CHORD BEARING OF N34°02'00'E, AND A CHORD LENGTH OF 63.45'; THENCE ALONG SAID TURNER LINE, NO9°07'52" E 52.64'; THENCE ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.67', WITH A RADIUS OF 50.00', WITH A CHORD BEARING OF N54°02'00'E, AND A CHORD LENGTH OF 63.45'; THENCE ALONG SAID TURNER LINE, AND A CHORD LENGT

PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 77, PAGE 464 (NOT FIELD SURVEYED)

A TRACT OF LAND LYING ON THE SOUTH SIDE OF TABOR ROAD, AND THE EAST OF WAYSIDE INN ROAD CONSISTING OF 35.27 ACRES AND BEING DESIGNATED AS "TRACT 3" ON A PLAT OF WAVIER SURVEY OF THE MARK KNIGHT, ET AL, PROPERTY AS RECORDED IN PLAT CABINET 2 SLIDE 35 IN BALLARD COUNTY CLERK'S OFFICE. BEING A PART OF THE PROPERTY INHERITED BY GRANTORS MARK KNIGHT, LOREA TURNER, AND GARY KNIGHT, THE CHILDREN OF JIMMY BOB KNIGHT, SEE AFFIDAVIT OF DESCENT AND TRANSFER BY INTESTATE SUCCESSION, DATED MARCH 2, 2001 AND OF RECORD IN CABINET I, DRAWER 20, CARD #42768 IN THE BALLARD COUNTY CLERK'S OFFICE.

TITLE OF COMMITMENT, DEED BOOK 77, PAGE 464 (PARCEL ID: 37-17-03)

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN AC AND CURRENT TITLE SEARCH MAY DISCLOSE. INFORMATION REGARDING THESE MATTERS WERE GAINE FIDELITY NATIONAL TITLE, ORDER NO. C1905592LKY, PREPARED FOR VERIZON WIRELESS, DATED JULY 8 AT 8:00 AM. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID SEARCH AND THE NUMBERS IN THE COMMENTS CORRESPOND TO THE NUMBERING SYSTEM IN SAID REPORT.

SCHEDULE B, PART II (EXCEPTIONS)

- ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS F IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COM AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET. (NO SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS
- LIEN OF CITY, COUNTY AND OTHER REAL ESTATE TAXES FOR THE PERIOD 2019 AND ALL SUNOT YET DUE AND PAYABLE. (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP EXAMINE OR ADDRESS THIS ITEM.)
- 3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTA THE TITLE, OR EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECO BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. (POD GROU PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT ADD
- RIGHTS OF TENANTS IN POSSESSION, AS TENANTS ONLY, UNDER UNRECORDED UNEXPIRE LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS
- ALL COAL, OIL, GAS AND OTHER MINERAL RIGHTS HERETOFORE CONVEYED, EXCEPTED, RE LEASED, TOGETHER WITH ALL INCIDENTAL RIGHTS THERETO. (POD GROUP, LLC DID NOT E ADDRESS THIS ITEM.)
- 6. CONDITIONS, STIPULATIONS, RESTRICTIONS, BUILDING LINES AND EASEMENTS, TOGETHE INCIDENTAL RIGHTS, AS PROVIDED FOR ON THE RECORDED PLAT OF RECORD IN PLAT CAB THE OFFICE AFORESAID. (PLAT AS RECORDED IN PLAT CABINET 2, SLIDE 35, DOES AFFECT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT.)

TATE OF KENTUCK

MARK

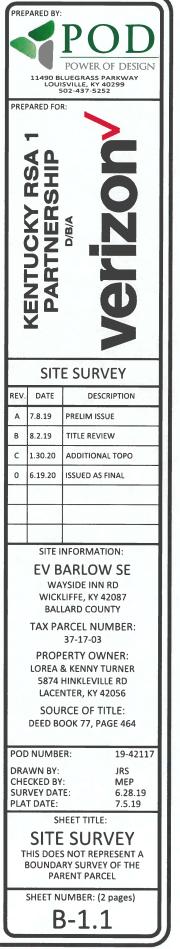
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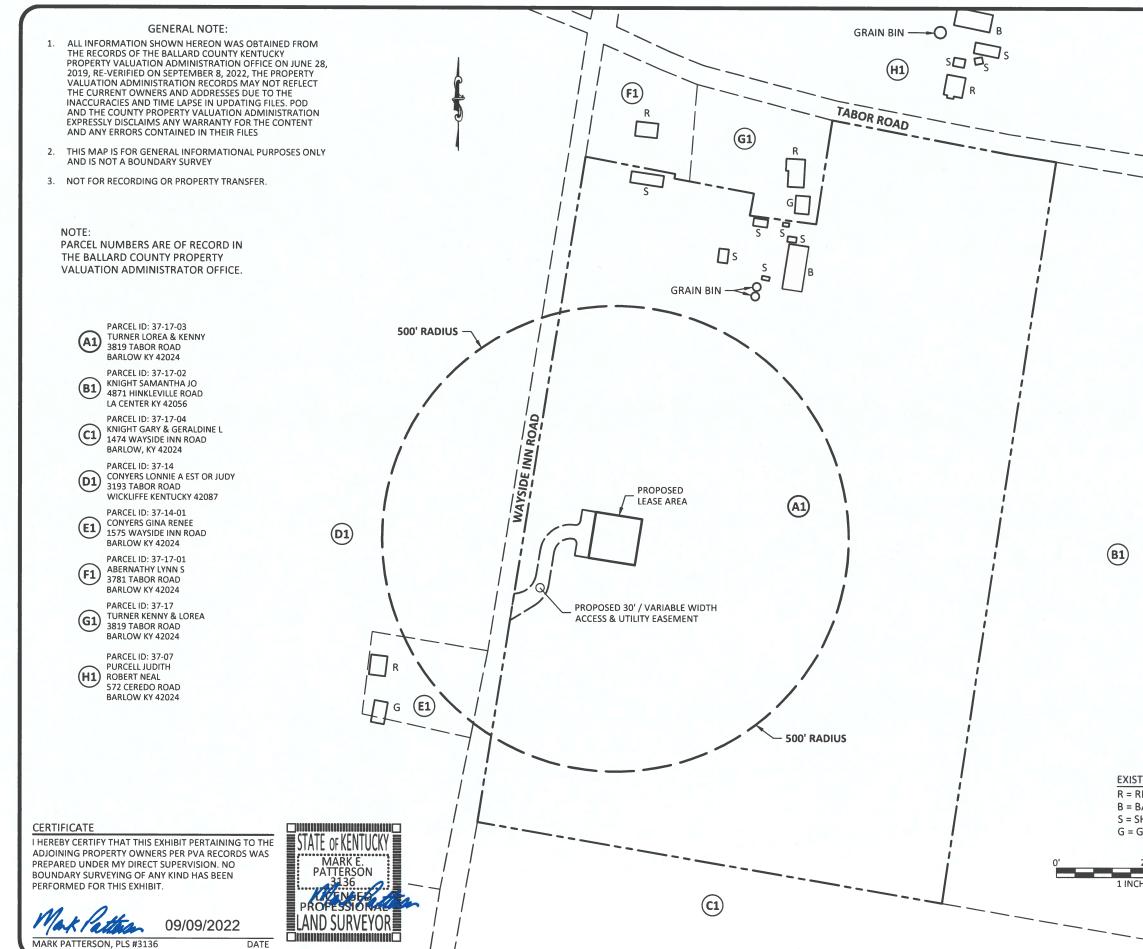
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MARK PATTERSON, PLS #3

06/19/2020 136 DATE	
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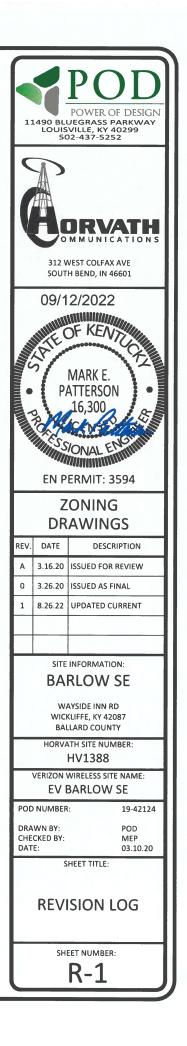


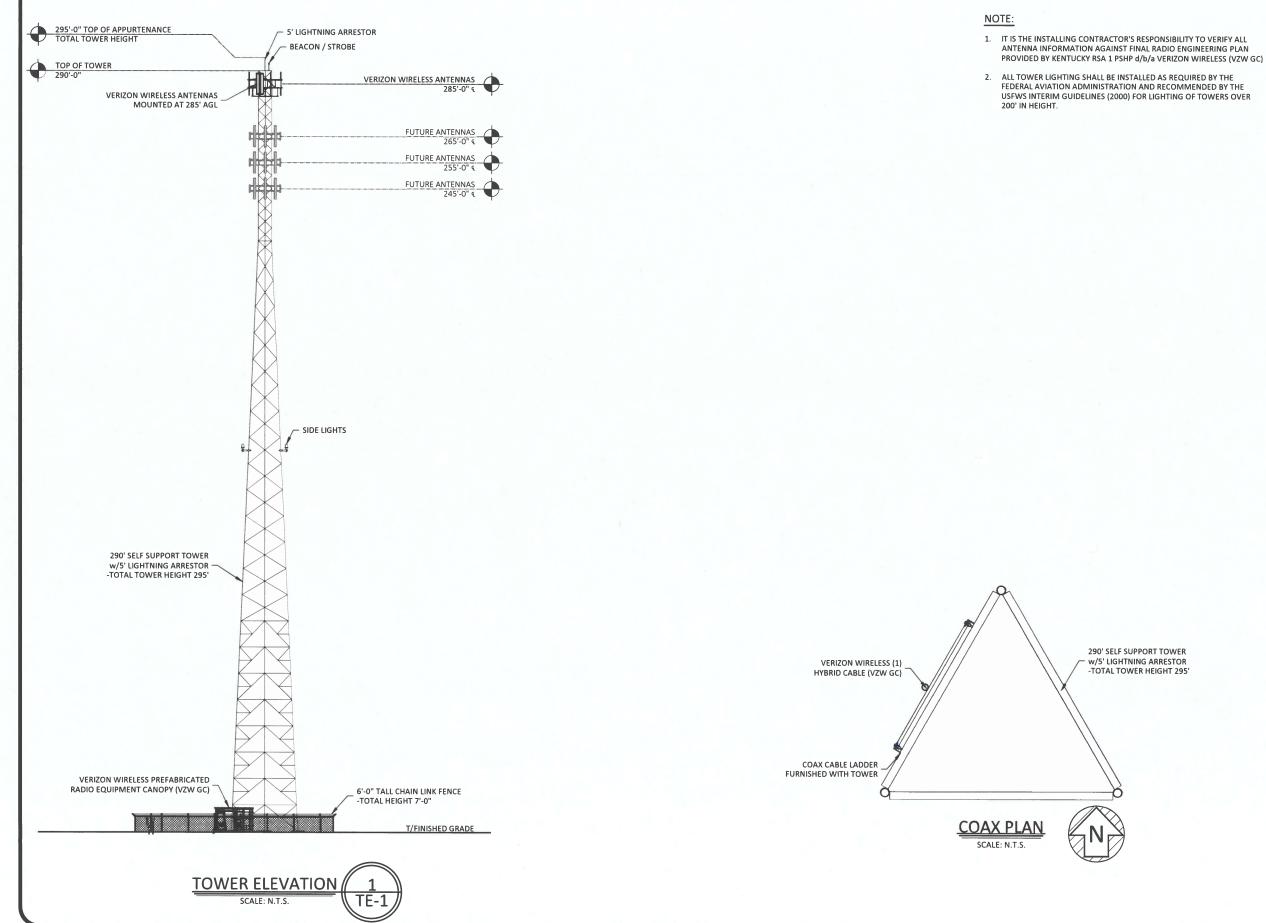
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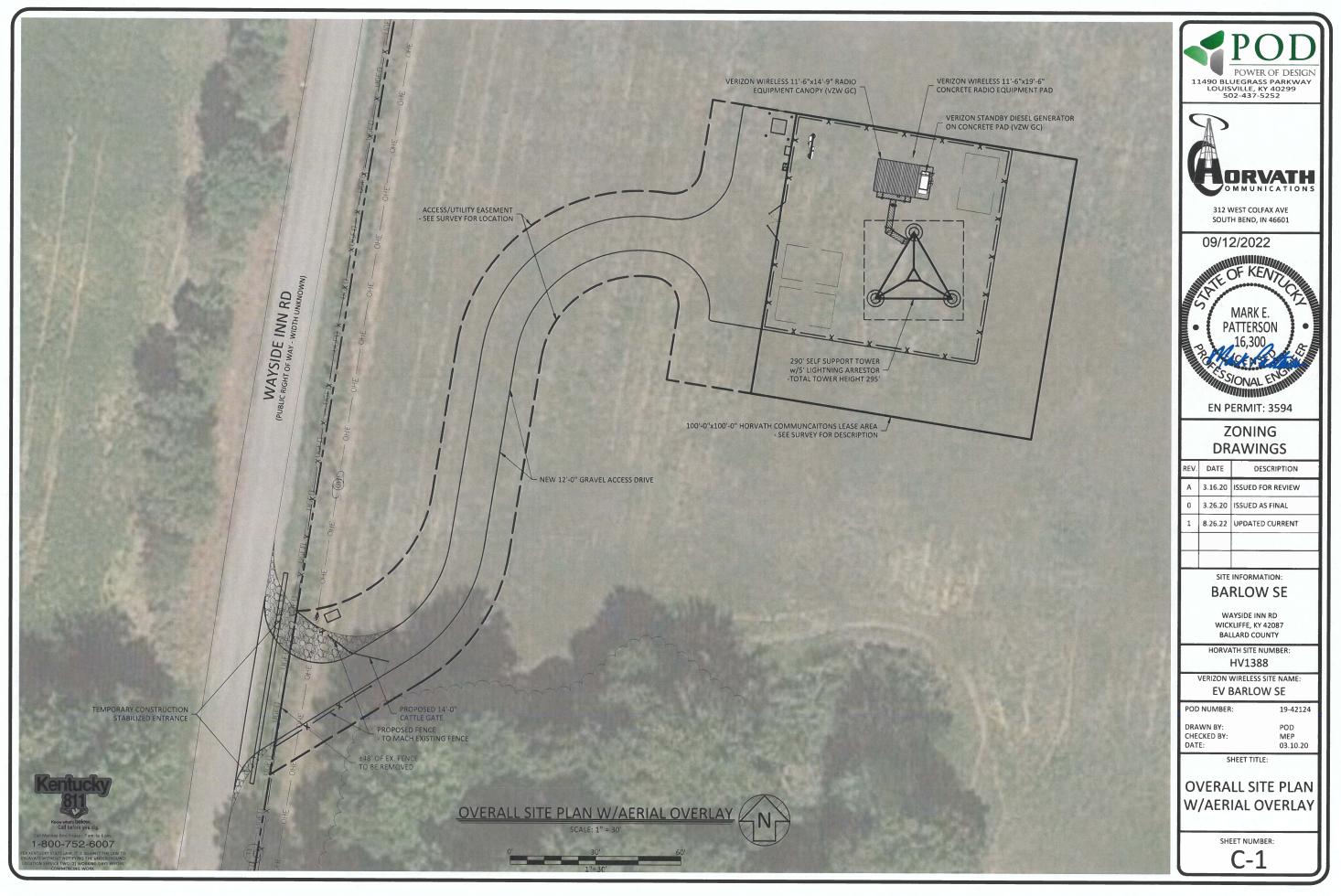
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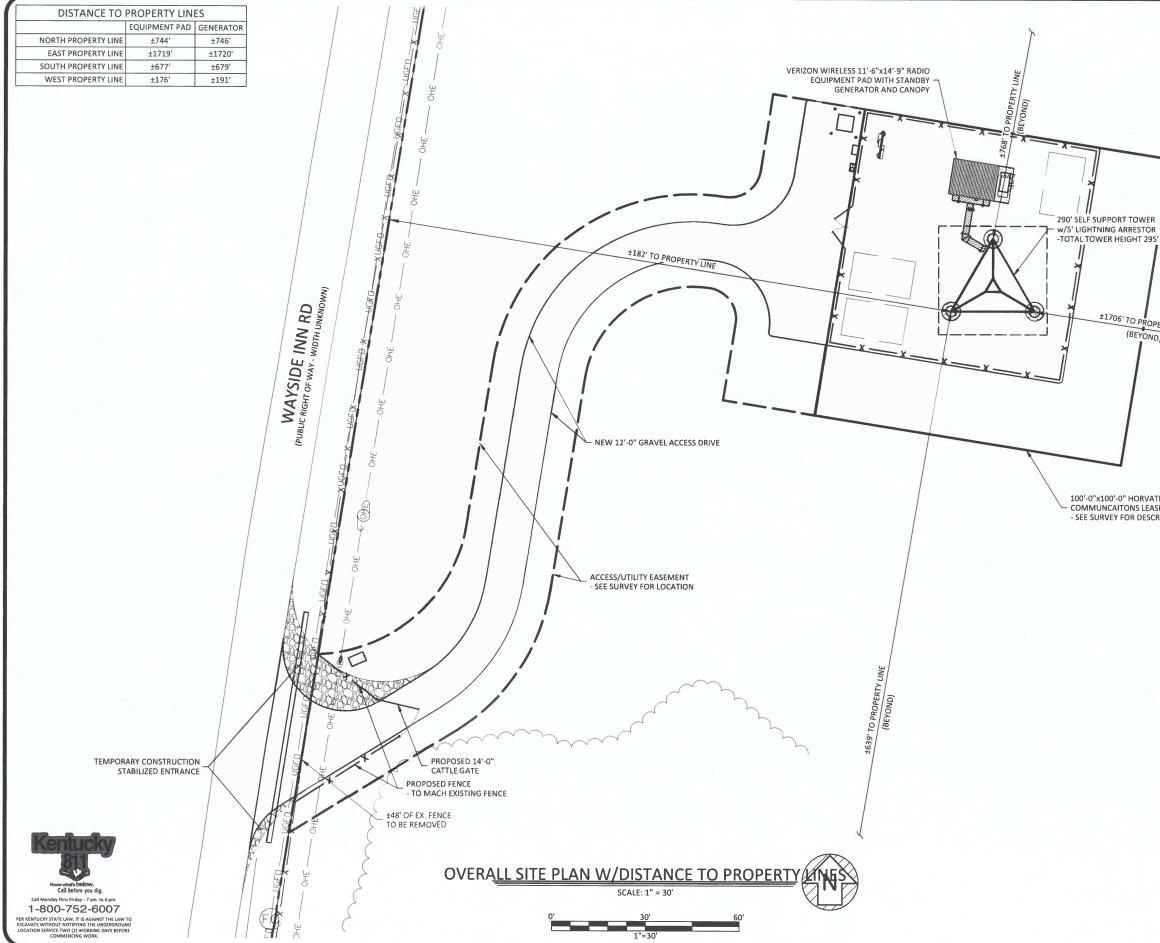
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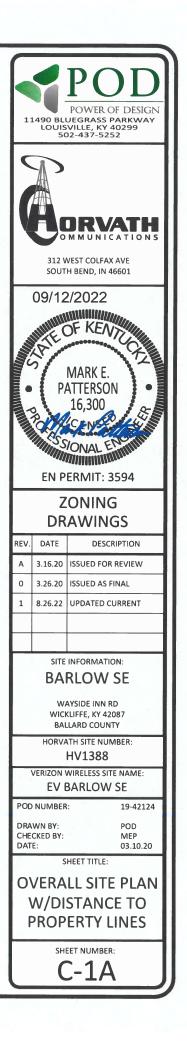


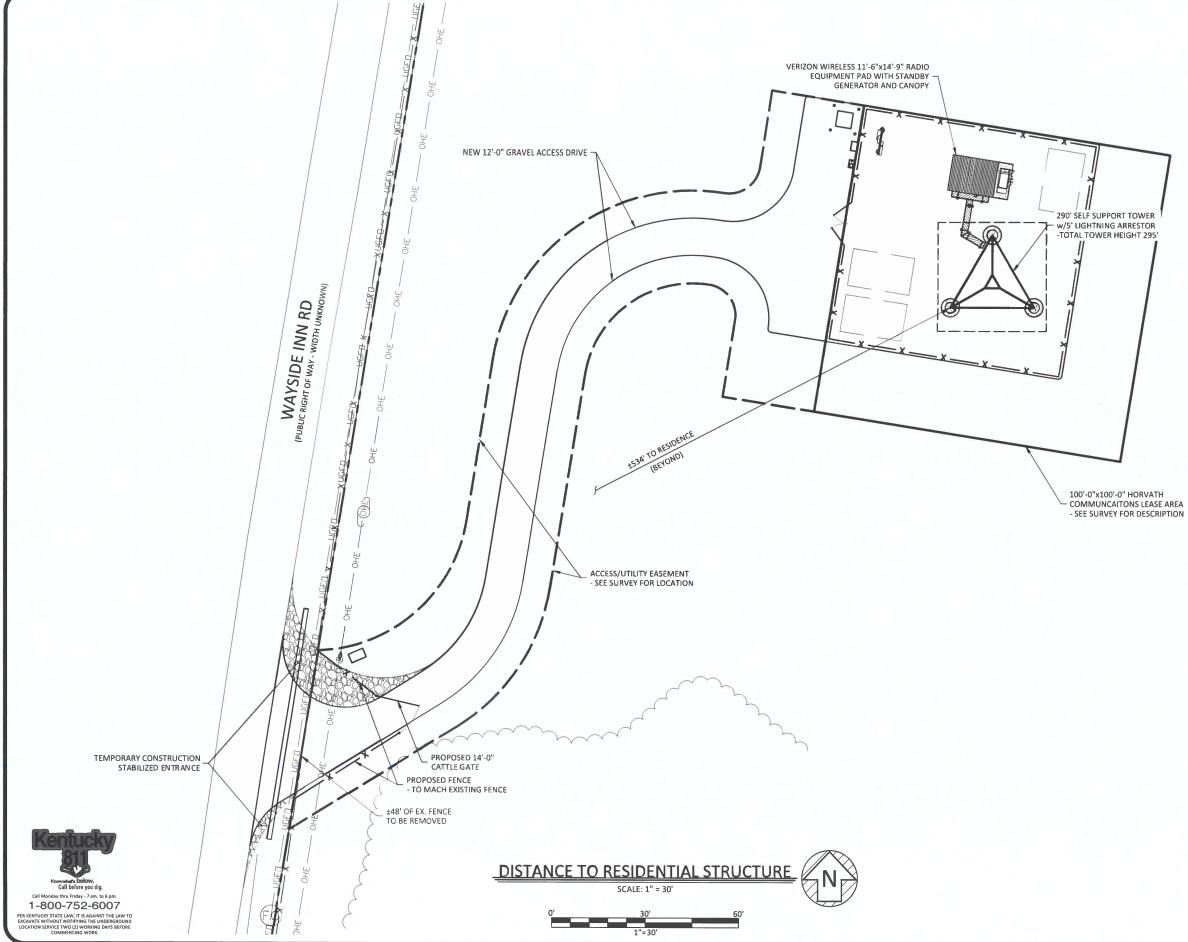
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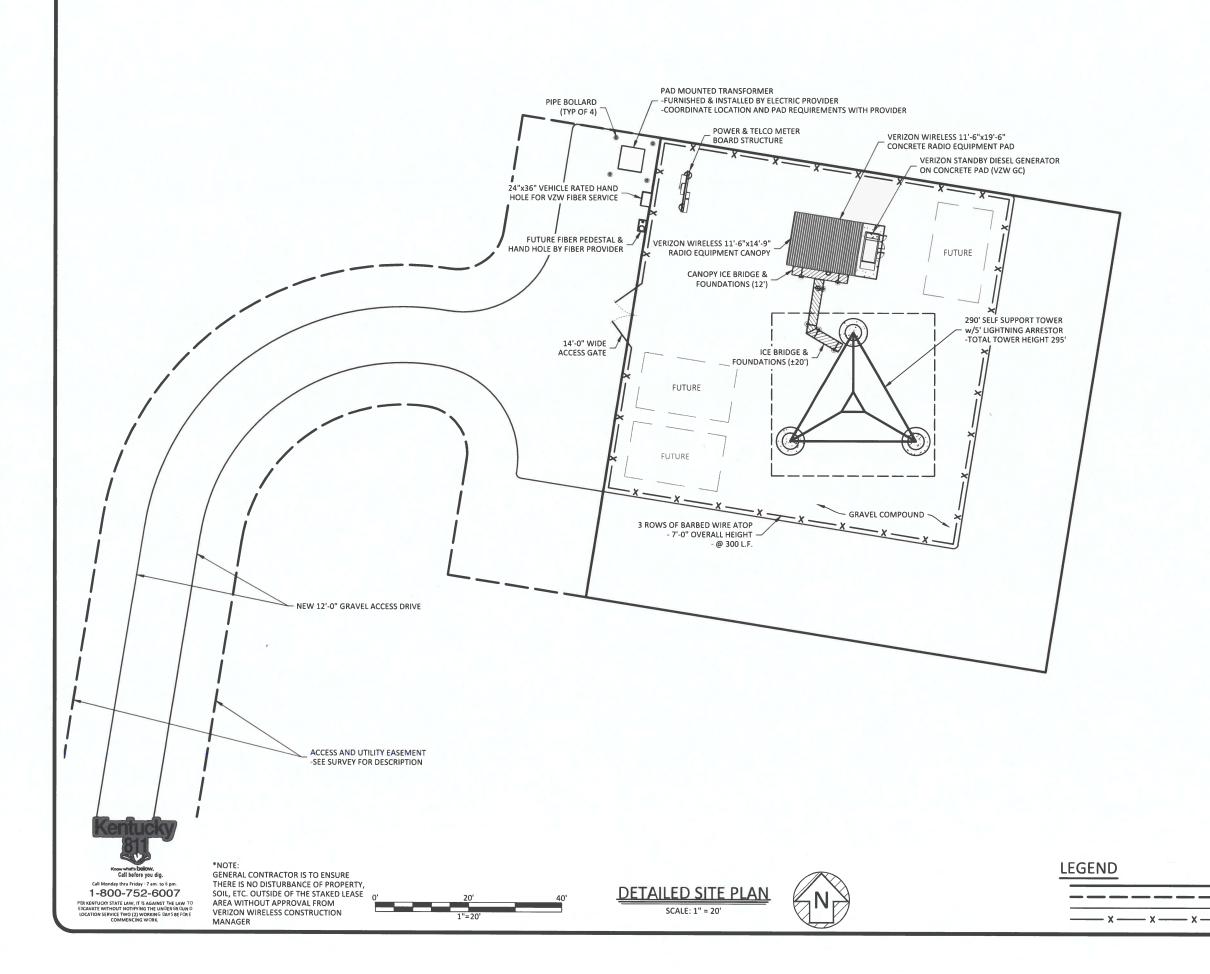


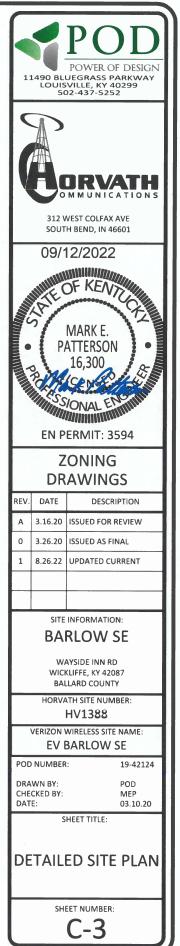
±1706' TO PROPERTY LINE (BEYONDI 100'-0"x100'-0" HORVATH COMMUNCAITONS LEASE AREA - SEE SURVEY FOR DESCRIPTION

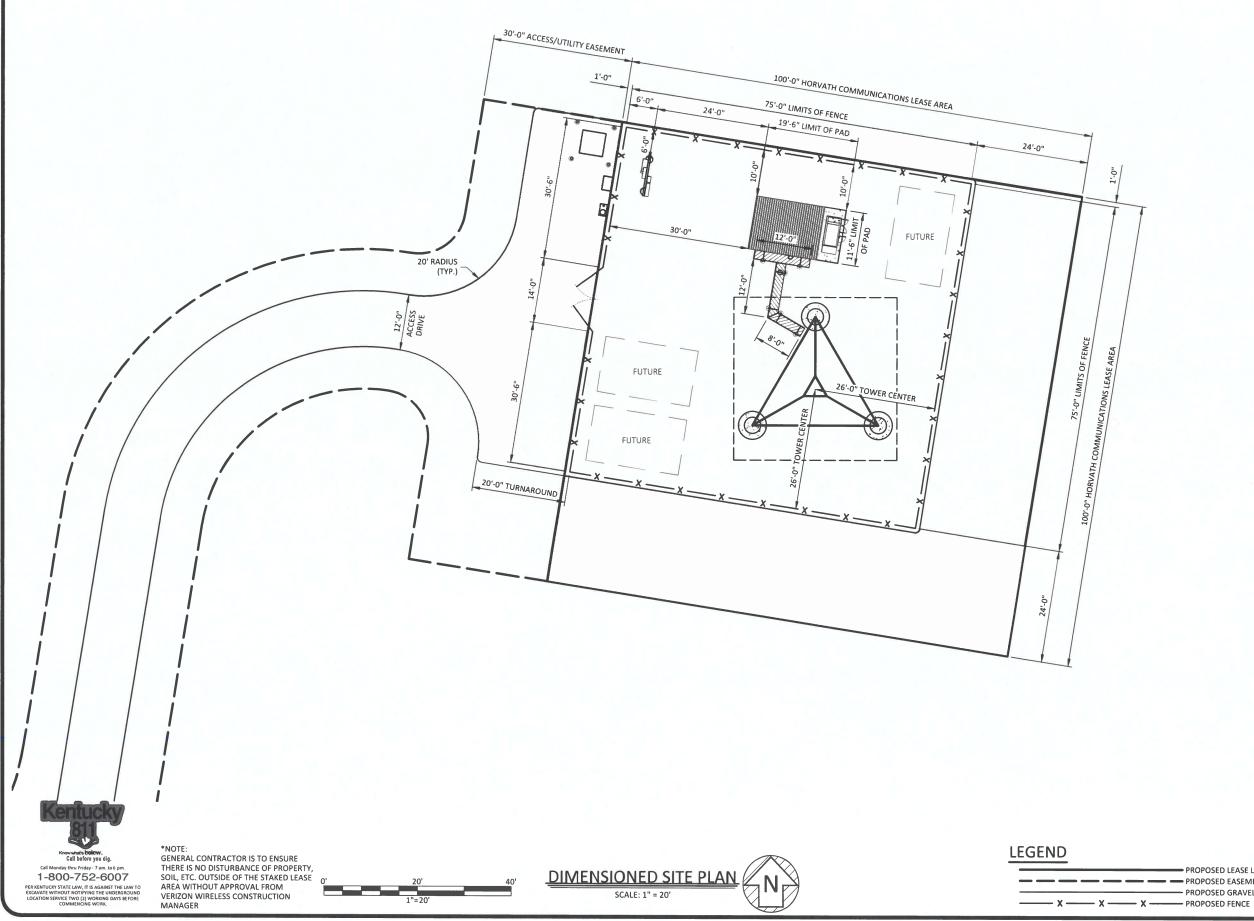




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PROPOSED LEASE LINE PROPOSED EASEMENT - PROPOSED GRAVEL



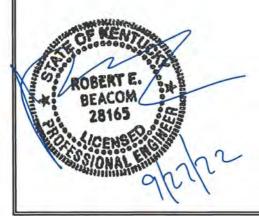
Structural Design Report 290' S3TL Series HD1 Self-Supporting Tower Site: Barlow, KY Site Number: HV1388

Prepared for: HORVATH COMMUNICATIONS INC by: Sabre Industries TM

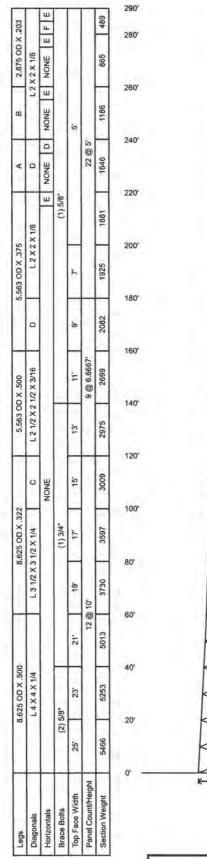
Job Number: 457708

September 27, 2022

Tower Profile	1-2
Foundation Design Summary	3
Maximum Leg Loads	4
Maximum Diagonal Loads	5
Maximum Foundation Loads	6
Calculations	7-25



Digitally Signed By Robert Beacom DN: c=US, st=Texas, I=Alvarado, o=SABRE INDUSTRIES, INC., cn=Robert Beacom, email=rebeacom@sabreindustri es.com Date: 2022.09.27 09:01:53



27' - 0"

Design Criteria - ANSI/TIA-222-G

ASCE 7-16 Ultimate Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Structure Class	
Risk Category	H.
Exposure Category	C
Topographic Category	1
Seismic Importance Factor, le	1.00
0.2-sec Spectral Response, Ss	1.791 g
1-sec Spectral Response, S1	0.595 g
Site Class	C
Seismic Design Category	D
Basic Seismic Force-Resisting System	Telecommunication Tower (Truss: Steel)

Base Reactions - Wind/Ice

Total Fo	undation	individual	Footing
Shear (kips)	53.1	Shear (kips)	33.21
Axial (kips)	143.9	Compression (kips)	395
Moment (ft-kips)	8772	Uplift (kips)	342

Base Reactions - Seismic

Total Foundation		Individual	Footing	
Shear (kips)	6.7	Shear (kips)	6.46	
Axial (kips)	82.41	Compression (kips)	88	
Moment (ft-kips)	1408	Uplift (kips)	49	

Material List

Display	Value	
A	4.500 OD X .337	
В	3.500 OD X .300	
C	L3X3X3/16	
D	L 2 X 2 X 3/16	
E	L 2 X 2 X 1/8	
F	NONE	

Notes

1) All legs are A500 (50 ksi Min. Yield).

2) All braces are A572 Grade 50.

3) All brace bolts are A325-X.

4) The tower model is S3TL Series HD1.

 Transmission lines are to be attached to standard 12 hole waveguide ladders with stackable hangers.

- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.

8) All unequal angles are oriented with the short leg vertical.

9) Weights shown are estimates. Final weights may vary.
10) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.

	Sabre Industries 7101 Southbridge Drive	Job:	457708	
Sabre Industries	P.O. Box 658	Customer	HORVATH COM	MUNICATIONS INC
INNOVATION DELIVERED	Sioux City, IA 51102-0658 Phone (712) 258-6800 Fac (712) 279-0814 side property of Satre Communications Corporation, constitutes a trade	Site Name	Barlow, KY HV13	388
		Description:	290' S3TL	
secret as defined by lowa Cate Ch. 550 and shall purpose whatsoever without the prior written conse	hot be reproduced, copied or used in whole or part for any int of Sebre Communications Corporation.	Date:	9/27/2022	By: REB

¹¹⁾ Tower Rating: 99.34%

Designed Appurtenance Loading

Elev	Description	Tx-Line	Elev	Description	Tx-Line	
285	(1) 208 sq. ft. EPA 4000# (no ice)	(6) 1 5/8"	225	(1) 278 sq. ft. EPA 6000# (no Ice)	(3) 1 5/8"	

	Sioux City, IA 51102-0658 Phone (712) 258-6690	Job:	457708		
Sabre Industries		Customer:	stomer: HORVATH COMMUNICATIONS INC		
INNOVATION DELIVERED		Site Name:	Barlow, KY HV13	388	
	Fac (712) 279-0814 motion contained herein is the sole property of Sebre Communications Corporation, constitutes a trade				
secret as defined by lows Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Salare Communications Corporation.	Date:	9/27/2022	By: REB		

Customer: HORVATH COMMUNICATIONS INC Site: Barlow, KY HV1388

290 ft. Model S3TL Series HD1 Self Supporting Tower

0-1

Notes:

 Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.

- 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 POD project no. 19-42119, dated: 2/28/20.
- See the geotechnical report for drilled pier installation requirements, if specified.

 7) The foundation is based on the following factored loads: Factored uplift (kips) = 342.00
 Factored download (kips) = 395.00
 Factored shear (kips) = 33.00

 The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

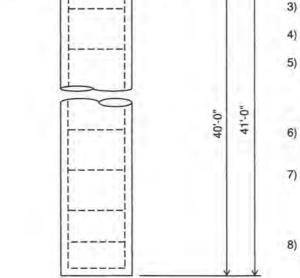
 Rebar Schedule per Pier

 Pier
 (16) #10 vertical rebar w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C

 Anchor Bolts per Leg

 (6) 1.5" dia. x 78" F1554-105 on a 13.25" B.C. w/ 9.5" max. projection above concrete.

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ELEVATION VIEW (29.8 cu. yds.) (3 REQUIRED; NOT TO SCALE)

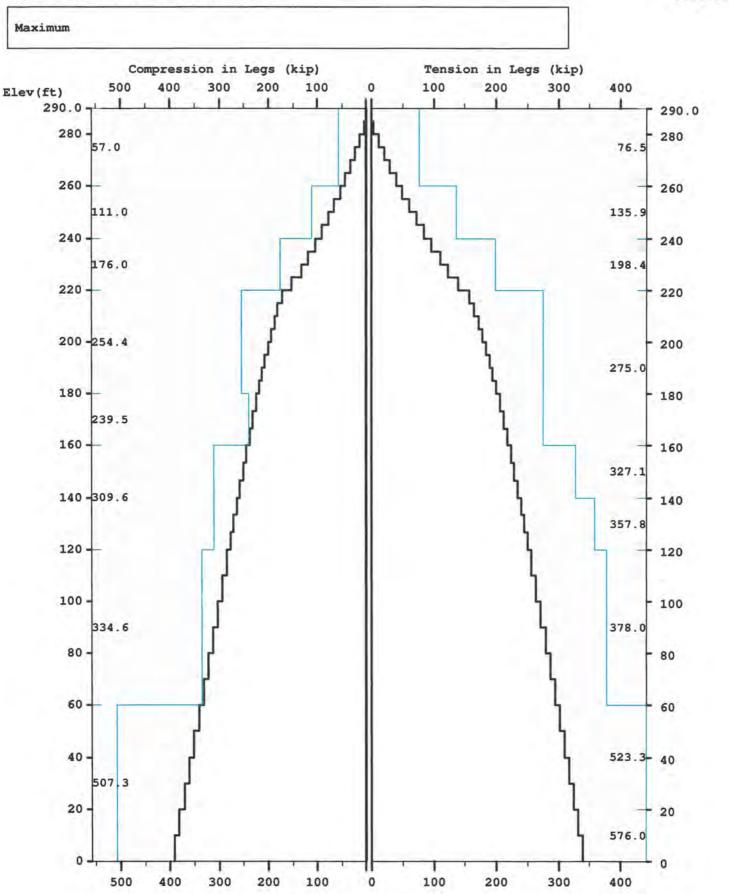
5'-0'

Dia

No.: 457708 Date: 09/27/22 By: REB

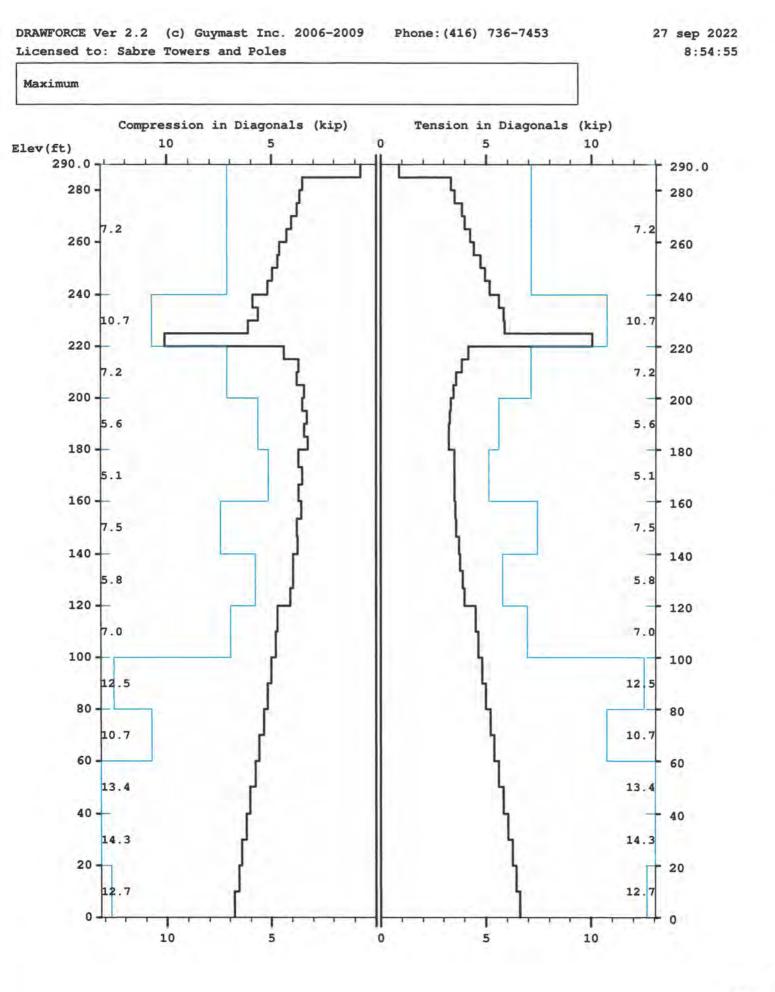


Grade



-7453 27 sep 2022 8:54:55

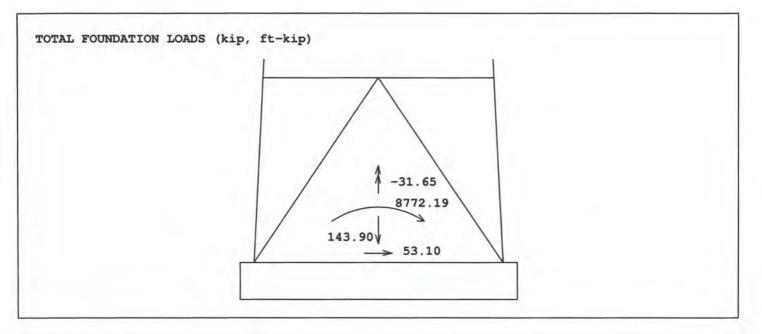


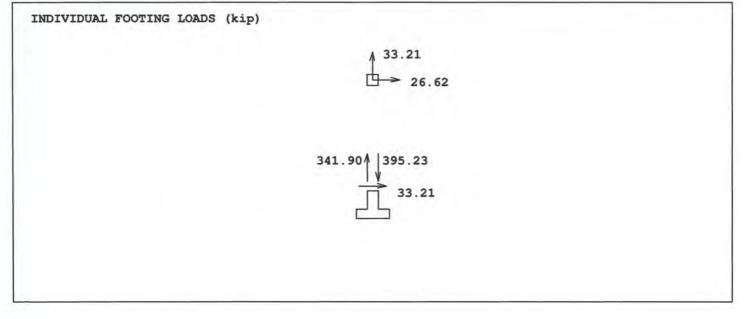


DRAWFORCE Ver 2.2	(c) Guymast	Inc. 2006-2009	Phone: (416)	736-7453	27
Licensed to: Sabre	Towers and P	oles			

27 sep 2022 8:54:55

Maximum





Latticed Tower Analysis (Unguyed) Processed under license at:	(c)2015 Guymast Inc. 416-736-7453
Sabre Towers and Poles	on: 27 sep 2022 at: 8:54:55

MAST GEOMETRY (ft)

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W. AT BOTTOM	F.W.AT TOP	TYPICAL PANEL HEIGHT	
x	3	285.00	290.00	5.00	5.00	5.00	
х	3	280.00	285.00	5.00	5.00	5.00	
х	3	275.00	280.00	5.00	5.00	5.00	
х	3	260.00	275.00	5.00	5.00	5.00	
х	3	255.00	260.00	5.00	5.00	5.00	
x	3	240.00	255.00	5.00	5.00	5.00	
x	3	235.00	240.00	5.00	5.00	5.00	
x	3	220.00	235.00	5.00	5.00	5.00	
x	3	215.00	220.00	5.50	5.00	5.00	
x	3	200.00	215.00	7.00	5.50	5.00	
x	3	180.00	200.00	9.00	7.00	5.00	
x	3	160.00	180.00	11.00	9.00	6.67	
х	3 3 3 3 3 3 3 3 3 3 3 3	140.00	160.00	13.00	11.00	6.67	
х	3	120.00	140.00	15.00	13.00	6.67	
x	333	100.00	120.00	17.00	15.00	10.00	
х	3	80.00	100.00	19.00	17.00	10.00	
х	3	60.00	80.00	21.00	19.00	10.00	
х	3	40.00	60.00	23.00	21.00	10.00	
х	3	20.00	40.00	25.00	23.00	10.00	
x	3	0.00	20.00	27.00	25.00	10.00	

MEMBER PROPERTIES

MEMBER	BOTTOM	TOP	X-SECTN	RADIUS	ELASTIC	THERMAL	
TYPE	ELEV	ELEV	AREA	OF GYRAT	MODULUS	EXPANSN	
	ft	ft	in.sq	in	ksi	/deg	
LE	260.00	290.00	1.704	0.947	29000.	0.0000117	
LE	240.00	260.00	3.016	0.947	29000.	0.0000117	
LE	220.00	240.00	4.407	0.947	29000.	0.0000117	
LE	160.00	220.00	6.111	0.947	29000.	0.0000117	
LE	120.00	160.00	7.952	0.947	29000.	0.0000117	
LE	60.00	120.00	8.399	0.947	29000.	0.0000117	
LE	0.00	60.00	12.763	0.947	29000.	0.0000117	
DI	240.00	290.00	0.484	0.626	29000.	0.0000117	
DI	220.00	240.00	0.715	0.626	29000.	0.0000117	
DI	180.00	220.00	0.484	0.626	29000.	0.0000117	
DI	160.00	180.00	0.715	0.626	29000.	0.0000117	
DI	120.00	160.00	0.902	0.626	29000.	0.0000117	
DI	100.00	120.00	1.090	0.626	29000.	0.0000117	
DI	60.00	100.00	1.688	0.626	29000.	0.0000117	
DI	0.00	60.00	1.938	0.626	29000.	0.0000117	
HO	285.00	290.00	0.484	0.626	29000.	0.0000117	
HO	275.00	280.00	0.484	0.626	29000.	0.0000117	
HO	255.00	260.00	0.484	0.626	29000.	0.0000117	
HO	235.00	240.00	0.715	0.626	29000.	0.0000117	
HO	215.00	220.00	0.484	0.626	29000.	0.0000117	
HO	213.00	220.00	0.404	0.020	23000.	0.0000117	

FACTORED MEMBER RESISTANCES

BOTTOM	TOP	P LEGS		DIA	DIAGONALS		HORIZONTALS		BRACING	
ELEV	ELEV	COMP	TENS	COMP	TENS	COMP	TENS	COMP	TENS	
ft	ft	kip	kip	kip	kip	kip	kip	kip	kip	
285.0	290.0	57.04	76.50	7.16	7.16	5.82	5.82	0.00	0.00	
280.0		57.04	76.50	7.16	7.16	0.00	0.00	0.00	0.00	
275.0	280.0	57.04	76.50	7.16	7.16	5.82	5.82	0.00	0.00	
260.0	275.0	57.04	76.50	7.16	7.16	0.00	0.00	0.00	0.00	
255.0	260.0	110.98	135.90	7.16	7.16	5.82	5.82	0.00	0.00	
240.0	255.0	110.98	135.90	7.16	7.16	0.00	0.00	0.00	0.00	
235.0	240.0	175.98	198.45	10.74	10.74	8.46	8.46	0.00	0.00	

220.0	235.0	175.98	198.45	10.74	10.74	0.00	0.00	0.00	0.00	
215.0	220.0	254.38	274.95	7.16	7.16	5.82	5.82	0.00	0.00	
200.0	215.0	254.38	274.95	7.16	7.16	0.00	0.00	0.00	0.00	
180.0	200.0	254.38	274.95	5.63	5.63	0.00	0.00	0.00	0.00	
160.0	180.0	239.46	274.95	5.14	5.14	0.00	0.00	0.00	0.00	
140.0	160.0	309.64	327.10	7.46	7.46	0.00	0.00	0.00	0.00	
120.0	140.0	309.64	357.75	5.78	5.78	0.00	0.00	0.00	0.00	
100.0	120.0	334.65	378.00	6.98	6.98	0.00	0.00	0.00	0.00	
80.0	100.0	334.65	378.00	12.53	12.53	0.00	0.00	0.00	0.00	
60.0	80.0	334.65	378.00	10.73	10.73	0.00	0.00	0.00	0.00	
40.0	60.0	507.33	523.32	13.43	13.43	0.00	0.00	0.00	0.00	
20.0	40.0	507.33	523.32	14.31	14.31	0.00	0.00	0.00	0.00	
0.0	20.0	507.33	576.00	12.68	12.68	0.00	0.00	0.00	0.00	

* Only 5 condition(s) shown in full * Some wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A

106 mph Ultimate wind with no ice. Wind Azimuth: 0. (1.2 D + 1.0 Wo)

PL - 0

MAST LOADING

LOAD	ELEV	APPLY. LC			FORC			ENTS
TYPE	-	RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
	ft	IC			kip	kip	ft-kip	ft-kip
c	285.0	0.00	0.0	0.0	6.53	4.80	0.00	0.00
C	225.0	0.00	0.0	0.0	8.30	7.20	0.00	0.00
D	290.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	285.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	285.0		42.0	0.0	0.09	0.05	0.03	0.05
D	260.0	0.00	42.0	0.0	0.09	0.05	0.03	0.05
D	260.0		42.0	0.0	0.10	0.07	0.03	0.05
0	240.0	0.00	42.0	0.0	0.09	0.07	0.03	0.05
D	240.0	0.00	42.0	0.0	0.10	0.10	0.03	0.05
D	225.0		42.0	0.0	0.09	0.09		
D	225.0	0.00	42.0	0.0	0.10	0.10	0.03	0.06
D	220.0	0.00	42.0	0.0	0.10	0.10	0.03	0.06
D	220.0	0.00	34.2	0.0	0.11	0.12	0.04	0.06
D	205.0	0.00	38.7	0.0	0.11	0.11	0.04	0.06
D	205.0	0.00	40.9	0.0	0.11	0.11	0.03	0.06
D	200.0	0.00	40.9	0.0	0.11	0.11	0.03	0.06
D	200.0	0.00	27.9	0.0	0.11	0.11	0.05	0.06
D	180.0	0.00	32.4	0.0	0.12	0.12	0.04	0.06
D	180.0	0.00	23.5	0.0	0.11	0.12	0.06	0.06
D	160.0	0.00	26.4	0.0	0.12	0.13	0.05	0.06
D	160.0	0.00	20.2	0.0	0.12	0.16	0.06	0.06
D	140.0	0.00	22.3	0.0	0.13	0.16	0.06	0.06
D	140.0	0.00	17.6	0.0	0.13	0.17	0.07	0.05
D	120.0	0.00	19.2	0.0	0.13	0.17	0.07	0.05
D	120.0	0.00	15.8	0.0	0.13	0.17	0.08	0.05
D	100.0	0.00	16.7	0.0	0.13	0.17	0.08	0.05
D	100.0	0.00	14.2	0.0	0.14	0.20	0.09	0.05
D	80.0	0.00	14.9	0.0	0.14	0.21	0.09	0.05
D	80.0	0.00	12.9	0.0	0.14	0.21	0.10	0.05
D	60.0	0.00	13.5	0.0	0.14	0.21	0.09	0.05
D	60.0	0.00	11.8	0.0	0.14	0.29		0.04
D	40.0			0.0	0.15	0.29		0.05
D	40.0	0.00	10.8	0.0	0.14	0.30		0.04
D	20.0		11.3	0.0	0.14	0.30		0.04
D	20.0	0.00	10.0	0.0		0.30		0.03
D	0.0			0.0		0.31	0.12	0.04

LOADING CONDITION k

106 mph Ultimate wind with no ice. Wind Azimuth: 0. (0.9 D + 1.0 Wo)

PL - 0

MAST LOADING

LOAD TYPE	ELEV	APPLY LO RADIUS	AD AT AZI	LOAD	HORIZ	S	VERTICAL	TORSNAL
TIFE	ft	ft	AGI	AGI	kip	kip	ft-kip	ft-kip
с	285.0	0.00	0.0	0.0	6.53	3.60	0.00	0.00
C	225.0	0.00	0.0	0.0	8.30	5.40	0.00	0.00
D	290.0	0.00	180.0	0.0	0.06	0.03	0.00	0.00
D	285.0	0.00	180.0	0.0	0.06	0.03	0.00	0.00
D	285.0	0.00	42.0	0.0	0.09	0.04	0.02	0.05
D	260.0	0.00	42.0	0.0	0.09	0.04	0.02	0.05
D	260.0	0.00	42.0	0.0	0.10	0.05	0.02	0.05
D	240.0	0.00	42.0	0.0	0.09	0.05	0.02	0.05
D	240.0	0,00	42.0	0.0	0.10	0.08	0.02	0.05
D	225.0	0.00	42.0	0.0	0.09	0.07	0.02	0.05
D	225.0	0.00	42.0	0.0	0.10	0.07	0.02	0.06
D	220.0	0.00	42.0	0.0	0.10	0.07	0.02	0.06
D	220.0	0.00	34.2	0.0	0.11	0.09	0.03	0.06
D	205.0	0.00	38.7	0.0	0.11	0.08	0.03	0.06
D	205.0	0.00	40.9	0.0	0.11	0.09	0.03	0.06
D	200.0	0.00	40.9	0.0	0.11	0.09	0.03	0.06
D	200.0	0.00	27.9	0.0	0.11	0.09	0.04	0.06
D	180.0	0.00	32.4	0.0	0.12	0.09	0.03	0.06
D	180.0	0.00	23.5	0.0	0.11	0.09	0.04	0.06
D	160.0	0.00	26.4	0.0	0.12	0.09	0.04	0.06
D	160.0	0.00	20.2	0.0	0.12	0.12	0.05	0.06
D	140.0	0.00	22.3	0.0	0.13	0.12	0.04	0.06
D	140.0	0.00	17.6	0.0	0.13	0.12	0.05	0.05
D	120.0	0.00	19.2	0.0	0.13	0.13	0.05	0.05
D	120.0	0.00	15.8	0.0	0.13	0.13	0.06	0.05
D	100.0	0.00	16.7	0.0	0.13	0.13	0.06	0.05
D	100.0	0.00	14.2	0.0	0.14	0.15	0.07	0.05
D	80.0	0.00	14.9	0.0	0.14	0.16	0.06	0.05
D	80.0	0.00	12.9	0.0	0.14	0.16	0.07	0.05
D	60.0	0.00	13.5	0.0	0.14	0.16	0.07	0.05
D	60.0	0.00	11.8	0.0	0.14	0.22	0.08	0.04
D	40.0	0.00	12.3	0.0	0.15	0.22	0,08	0.05
D	40.0	0.00	10.8	0.0	0.14	0.22	0.09	0.04
D	20.0	0.00	11.3	0.0	0.14	0.22	0.08	0.04
D	20.0	0.00	10.0	0.0	0.13	0.23	0.09	0.03
D	0.0	0.00	10.4	0.0	0.13	0.23	0.09	0.04

30 mph wind with 1.5 ice. Wind Azimuth: 0* (1.2 D + 1.0 Di + 1.0 Wi) PL - 0

MAST LOADING

LOAD	ELEV	APPLY. LO	AD. AT	LOAD	FORC	ES		ENTS
TYPE		RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
c	285.0	0.00	0.0	0.0	0.95	12.24	0.00	0.00
c	225.0	0.00	0.0	0.0	1.20	18.10	0.00	0.00
D	290.0	0.00	180.0	0.0	0.01	0.19	0.00	0.00
D	285.0	0.00	180.0	0.0	0.01	0.19	0.00	0.00
D	285.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	280.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	280.0	0.00	42.0	0.0	0.01	0.25	0.12	0.01
D	275.0	0.00	42.0	0.0	0.01	0.25	0.12	0.01
D	275.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	260.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	260.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	255.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	255.0	0.00	42.0	0.0	0.01	0.23	0.12	0.01
D	240.0	0.00	42.0	0.0	0.01	0.23	0.12	0.01
D	240.0	0.00	42.0	0.0	0.02	0.29	0.12	0.01
D	235.0	0.00	42.0	0.0	0.02	0.29	0.12	0.01
D	235.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	225.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	225.0	0.00	42.0	0.0	0.01	0.27	0.15	0.01
D	220.0	0.00	42.0	0.0	0.01	0.27	0.15	0.01
D	220.0	0.00	34.2	0.0	0.02	0.32	0.17	0.01
D	215.0	0.00	34.2	0.0	0.02	0.32	0.17	0.01
D	215.0	0.00	36.4	0.0	0.01	0.30	0.17	0.01

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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	120.0	0.00	15.8	0.0	0.02	0.41	0.34	0.01	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	110.0	0.00	15.8	0.0	0.02	0.41	0.34	0.01	
D 100.0 0.00 14.2 0.0 0.02 0.47 0.37 0.01 D 80.0 0.00 14.9 0.0 0.02 0.48 0.35 0.01 D 80.0 0.00 12.9 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.49 0.38 0.01 D 60.0 0.001 13.5 0.0 0.02 0.59 0.41 0.01 D 40.0 0.001 12.3 0.0 0.02 0.59 0.41 0.01 D 40.0 0.001 10.8 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.01	D	110.0	0.00	16.7	0.0	0.02	0.42	0.32	0.01	
D 80.0 0.00 14.9 0.0 0.02 0.48 0.35 0.01 D 80.0 0.00 12.9 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.58 0.42 0.01 D 60.0 0.00 11.8 0.0 0.02 0.58 0.42 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.00 <th< td=""><td>D</td><td>100.0</td><td>0.00</td><td>16.7</td><td>0.0</td><td>0.02</td><td>0.42</td><td>0.32</td><td>0.01</td><td></td></th<>	D	100.0	0.00	16.7	0.0	0.02	0.42	0.32	0.01	
D 80.0 0.00 14.9 0.0 0.02 0.48 0.35 0.01 D 80.0 0.00 12.9 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.58 0.42 0.01 D 60.0 0.00 11.8 0.0 0.02 0.58 0.42 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.00 <th< td=""><td>D</td><td>100.0</td><td>0.00</td><td>14.2</td><td>0.0</td><td>0.02</td><td>0.47</td><td>0.37</td><td>0.01</td><td></td></th<>	D	100.0	0.00	14.2	0.0	0.02	0.47	0.37	0.01	
D 80.0 0.00 12.9 0.0 0.02 0.48 0.40 0.01 D 60.0 0.00 13.5 0.0 0.02 0.49 0.38 0.01 D 60.0 0.00 11.8 0.0 0.02 0.58 0.42 0.01 D 40.0 0.00 11.8 0.0 0.02 0.58 0.42 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 11.3 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.00 0.01 0.55 0.21 0.00 D 20.0 0.00 10.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 <t< td=""><td>D</td><td>80.0</td><td>0.00</td><td>14.9</td><td>0.0</td><td>0.02</td><td>0.48</td><td></td><td>0.01</td><td></td></t<>	D	80.0	0.00	14.9	0.0	0.02	0.48		0.01	
D 60.0 0.00 13.5 0.0 0.02 0.49 0.38 0.01 D 60.0 0.00 11.8 0.0 0.02 0.58 0.42 0.01 D 40.0 0.00 12.3 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 12.3 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 20.0 0.00 10.0 0.00 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 <th< td=""><td>D</td><td>80.0</td><td>0.00</td><td>12.9</td><td>0.0</td><td>0.02</td><td>0.48</td><td>0.40</td><td></td><td></td></th<>	D	80.0	0.00	12.9	0.0	0.02	0.48	0.40		
D 60.0 0.00 11.8 0.0 0.02 0.58 0.42 0.01 D 40.0 0.00 12.3 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 12.3 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.56 0.37 0.00	D	60.0	0.00	13.5	0.0	0.02	0.49	0.38		
D 40.0 0.00 12.3 0.0 0.02 0.59 0.41 0.01 D 40.0 0.00 10.8 0.0 0.02 0.59 0.41 0.01 D 20.0 0.00 11.3 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.56 0.37 0.00	D	60.0	0.00	11.8	0.0	0.02	0.58	0.42		
D 40.0 0.00 10.8 0.0 0.02 0.59 0.44 0.00 D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.37 0.00	D		0.00	12.3	0.0					
D 20.0 0.00 11.3 0.0 0.02 0.59 0.43 0.00 D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.55 0.21 0.00	D	40.0	0.00		0.0					
D 20.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.56 0.37 0.00	D	20.0								
D 10.0 0.00 10.0 0.0 0.01 0.55 0.21 0.00 D 10.0 0.00 10.4 0.0 0.01 0.56 0.37 0.00	D	20.0								
D 10.0 0.00 10.4 0.0 0.01 0.56 0.37 0.00										
	-				111					

Seismic - Azimuth: 0. (1.2 D + 1.0 Ev + 1.0 Eh)

PL - 0

MAST LOADING

LOAD	ELEV	APPLY LOAL		LOAD	FORCE			INTS
TYPE		RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
	ft	ft			kip	kip	ft-kip	ft-kip
с	285.0	0.00	0.0	0.0	1.31	5.95	0.00	0.00
C	285.0	0.00	0.0	0.0	0.16	0.73	0.00	0.00
C	282.5	0.00	0.0	0.0	0.02	0.08	0.00	0.00
C	270.0	0.00	0.0	0.0	0.06	0.30	0.00	0.00
C	270.0	0.00	0.0	0.0	0.26	1.29	0.00	0.00
C	250.0	0.00	0.0	0.0	0.06	0.30	0.00	0.00
c	250.0	0.00	0.0	0.0	0.32	1.76	0.00	0.00
C	232.5	0.00	0.0	0.0	0.04	0.23	0.00	0.00
C	230.0	0.00	0.0	0.0	0.39	2.45	0.00	0.00
C	225.0	0.00	0.0	0.0	1.38	8.92	0.00	0.00
c	222.5	0.00	0.0	0.0	0.02	0.10	0.00	0.00
C	210.0	0.00	0.0	0.0	0.06	0.40	0.00	0.00
C	210.0	0.00	0.0	0.0	0.39	2.80	0.00	0.00
C	190.0	0.00	0.0	0.0	0.34	2.86	0.00	0.00
C	190.0	0.00	0.0	0.0	0.05	0.40	0.00	0.00
C	170.0	0.00	0.0	0.0	0.04	0.40	0.00	0.00
C	170.0	0.00	0.0	0.0	0.31	3.10	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.40	0.00	0.00
C	150.0	0.00	0.0	0.0	0.33	4.01	0.00	0.00
C	130.0	0.00	0.0	0.0	0.03	0.40	0.00	0.00
C	130.0	0.00	0.0	0.0	0.30	4.42	0.00	0.00
00000	110.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	110.0	0.00	0.0	0.0	0.23	4.47	0.00	0.00
С	90.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	90.0	0.00	0.0	0.0	0.21	5.35	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.40	0.00	0.00
C	70.0	0.00	0.0	0.0	0.15	5.55	0.00	0.00
С	50.0	0.00	0.0	0.0	0.01	0.40	0.00	0.00
С	50.0	0.00	0.0	0.0	0.12	7.45	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.40	0.00	0.00
C	30.0	0.00	0.0	0.0	0.06	7.81	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.40	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	8.13	0.00	0.00

D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
			-					
OADTN	IC CONDIT	TON CN	******					
LOADIN	IG CONDIT	ION CN		*******				
				1.0 Ev +				L - 0

MAST LOADING

LOAD	ELEV	APPLY LO.	AD. AT	LOAD		ES		ENTS	
TYPE		RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL	
	ft	ft			kip	kip	ft-kip	ft-kip	
c	285.0	0.00	0.0	0.0	1.31	2.45	0.00	0.00	
C	285.0	0.00	0.0	0.0	0.16	0.30	0.00	0.00	
C	282.5	0.00	0.0	0.0	0.02	0.03	0.00	0.00	
С	270.0	0.00	0.0	0.0	0.06	0.13	0.00	0.00	
C	270.0	0.00	0.0	0.0	0.26	0.53	0.00	0.00	
C	250.0	0.00	0.0	0.0	0.06	0.13	0.00	0.00	
000	250.0	0.00	0.0	0.0	0.32	0.73	0.00	0.00	
C	232.5	0.00	0.0	0.0	0.04	0.09	0.00	0.00	
C	230.0	0.00	0.0	0.0	0.39	1.01	0.00	0.00	
C	225.0	0.00	0.0	0.0	1.38	3.68	0.00	0.00	
C	222.5	0.00	0.0	0.0	0.02	0.04	0.00	0.00	
C	210.0	0.00	0.0	0.0	0.06	0.16	0.00	0.00	
C	210.0	0.00	0.0	0.0	0.39	1.15	0.00	0.00	
C	190.0	0.00	0.0	0.0	0.34	1.18	0.00	0.00	
C	190.0	0.00	0.0	0.0	0.05	0.16	0.00	0.00	
C	170.0	0.00	0.0	0.0	0.04	0.16	0.00	0.00	
C	170.0	0.00	0.0	0.0	0.31	1.28	0.00	0.00	
c	150.0	0.00	0.0	0.0	0.03	0.16	0.00	0.00	
C	150.0	0.00	0.0	0.0	0.33	1.66	0.00	0.00	
C	130.0	0.00	0.0	0.0	0.03	0.16	0.00	0.00	
C	130.0	0.00	0.0	0.0	0.30	1.82	0.00	0.00	
C	110.0	0.00	0.0	0.0	0.02	0.16	0.00	0.00	
00000	110.0	0.00	0.0	0.0	0.23	1.85	0.00	0.00	
C	90.0	0.00	0.0	0.0		0.16		0.00	
C	90.0	0.00	0.0	0.0		2.21		0.00	
C	70.0	0.00	0.0	0.0		0.16	0.00	0.00	
C	70.0	0.00	0.0	0.0	0.15	2.29	0.00	0.00	
00000	50.0	0.00	0.0	0.0	0.01	0.16	0.00	0.00	
C	50.0	0.00	0.0	0.0	0.12	3.08	0.00	0.00	
C	30.0	0.00	0.0	0.0	0.00	0.16	0.00	0.00	
C	30.0	0.00	0.0	0.0	0.06	3.22	0.00	0.00	
C	10.0	0.00	0.0	0.0		0.16	0.00	0.00	
C	10.0	0.00	0.0	0.0	0.01	3.35	0.00	0.00	
D	290.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00	
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00	

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG		HORIZ		BRACE		
290.0				0.50	1	0.00	A	
285.0	0.37 AC	0.88	S	0.08	s	0.00	A	
1.75.15	2.37 k	3.34	1	1.4.6				
280.0	11.12 k	3.52	~	1.02	в	0.00	A	
275.0			1000	0.20	в	0.00	A	
270.0	20.23 1	3.84	W	0.02	AC.	0.00	n	
	29.55 k	4.01	AF					
265.0	39.34 k	4.25	D	0.24	в	0.00	A	
260.0				0.73	A	0.00	A	
255.0	49.44 k	4.44	AF	0.31		0.00	A	
	61.07 k	4.75	D		1.1			
250.0	72.15 k	4.93		0,03	AC	0.00	A	
245.0				0.29	A	0.00	A	

240.0	84.28 k	5.18 D	1 10 2	0.00.0
240.0	95.93 k	5.61 k	1.10 A	0.00 A
235.0	110.54 k	5.84 S	0.35 B	A 00.0
230.0	122.81 k	5.89 k	0.03 AK	0.00 A
225.0	139.47 k	10.03 AF	0.30 B	0.00 A
220.0	156.19 k	4.15 m	0.85 AD	0.00 A
215.0	165.01 k	3.87 U	0.31 A	A 00.0
210.0	171.19 k	3.61 m	0.05 A	0.00 A
205.0	178.11 k	3.47 U	0.21 A	0.00 A
200.0	183.62 k	3.35 m	0.07 A	0.00 A
195.0	189.47 k	3.30 F	0.15 A	A 00.0
190.0			0.13 A	0.00 A
185.0	194.48 k	3.25 m	0.12 A	0.00 A
180.0	199.74 k	3.26 F	0.13 A	0.00 A
173.3	205.06 k	3.51 m	0.14 A	0.00 A
166.7	211.44 k	3.51 F	0.11 A	0.00 A
160.0	217.14 k	3.50 AH	0.11 A	0.00 A
153.3	223.00 k	3.57 F	0.07 A	0.00 A
146.7	228.39 k	3.61 p	0.09 A	0.00 A
140.0	233.94 k	3.70 F	0.06 A	0.00 A
133.3	239.19 k	3.78 p	0.14 A	0.00 A
126.7	244.55 k	3.88 F	0.05 A	0.00 A
	249.76 k	3.99 p		
120.0	256.21 k	4.51 AH	0.12 A	0.00 A
110.0	263.96 k	4.65 p	0.11 A	0.00 A
100.0	271.60 k	4.82 AH	0.10 A	0.00 A
90.0	279.21 k	5.01 p	0.10 A	0.00 A
80.0	286.80 k	5.21 F	0.06 A	0.00 A
70.0	294.37 k	5.40 p	0.09 A	0.00 A
60.0	301.89 k	5.62 F	0.05 A	0.00 A
50.0	309.28 k	5.84 p	0.05 A	0.00 A
40.0	316.72 k	6.06 F	0.05 A	0.00 A
30.0	324.11 k	6.25 p	0.04 A	0.00 A
20.0	331.50 k	6.44 F	0.01 CE	0.00 A
10.0	338.78 k		0.04 A	0.00 A
0.0	556.76 K	6.60 p	0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0			-0.59 S	0.00 A

artis a	-0.62 B	-0.75 k	Ashan tak	
285.0	-5.24 S	-3.52 S	-0.06 1	0.00
280.0	-14.29 S	-3.65 D	-0.84 r	0.00
275.0	-24.01 T	-3.78 o	-0.16 AD	0.00
270.0	-33.55 S	-4.06 D	-0.02 A	0.00
265.0			-0.20 AD	0.00
260.0	-43.81 S	-4.26 D	-0.67 AC	0.00
255.0	-54.26 S	-4.61 S	-0.28 AC	0.00
250.0	-66.67 S	-4.70 AF	-0.03 A	0.00
245.0	-78.20 S	-4.98 D	-0.27 AC	0.00
240.0	-91.02 S	-5.18 D	-1.04 AC	0.00
235.0	-103.18 S	-5.92 S	-0.31 AD	0.00
	-118.87 S	-5.63 n		
230.0	-131.83 S	-6.13 S	-0.05 g	0.00
225.0	-153.56 S	-10.12 S	-0.26 AD	0.00
220.0	-170.80 S	-4.40 U	-0.99 B	0.00
215.0	-180.51 S	-3.71 m	-0.28 AC	0.00
210.0	-186.94 S	-3.79 U	-0.05 AC	0.00
205.0	-194.56 S	-3.42 p	-0.19 AC	0.00
200.0	-200.45 S		-0.06 AC	0.00
195.0		-3.50 0	-0.14 AC	0.00
190.0	-206.95 S	-3.28 p	-0.12 AC	0.00
185.0	-212.41 S	-3.41 U	-0.10 AC	0.00
180.0	-218.30 S	-3.24 p	-0.12 AC	0.00
173.3	-224.20 S	-3.70 U	-0.12 AC	0.00
166.7	-231.45 S	-3.50 F	-0.10 AC	0.00
160.0	-237.87 S	-3.68 U	-0.10 AC	0.00
153.3	-244.66 S	-3.56 U	-0.06 AC	0.00
	-250.95 S	-3.78 U		
146.7	-257.52 S	-3.73 U	-0.08 AC	0.00
140.0	-263.74 S	-3.94 U	-0.06 AC	0.00
133.3	-270.14 S	-3.98 U	-0.12 AC	0.00
126.7	-276.40 S	-4.10 U	-0.04 AC	0.00
120.0	-284.15 S	-4.69 U	-0.11 AC	0.00
110.0	-293.53 S	-4.81 U	-0.10 AC	0.00
100.0	-302.91 S	-5.01 U	-0.09 AC	0.00
90.0			-0.09 AC	0.00
80.0	-312.40 S	-5.18 U	-0.06 AC	0.00
70.0	-321.91 S	-5.38 U	-0.08 AC	0.00
60.0	-331.44 S	-5.59 U	-0.05 AC	0.00
50.0	-341.16 S	-5.78 U	-0.04 AC	0.00
40.0	-351.01 S	-6.03 U	-0.04 AC	0.00
30.0	-360.97 S	-6.22 U	-0.04 AC	0.00
50.0	-370.92 S	-6.43 U		0.00

20.0			0.00	AC	0.00 A
	-380.92 S -6.58	υ			
10.0			-0.04	AC	0.00 A
	-390.82 S -6.80	U			
0.0	****************		0.00	A	0.00 A

FORCE/RESISTANCE RATIO IN LEGS

MAST	LE	G COMPRE	SSION -	LEG TENSION FORCE/			
ELEV	MAX	COMP RESIST	RESIST RATIO	MAX TENS	TENS RESIST	RESIST RATIO	
290.00	0.62	57.04	0.01	0.37	76.50	0.00	
285.00						0.00	
280.00	5.24	57.04	0.09	2.37	76.50	0.03	
275.00	14.29	57.04	0.25	11.12	76.50	0.15	
270.00	24.01	57.04	0.42	20.23	76.50	0.26	
265.00	33.55	57.04	0.59	29.55	76.50	0.39	
260.00	43.81	57.04	0.77	39.34	76.50	0.51	
255.00	54.26	110.98	0.49	49.44	135.90	0.36	
	66.67	110.98	0.60	61.07	135.90	0.45	
250.00	78.20	110.98	0.70	72.15	135.90	0.53	
245.00	91.02	110.98	0.82	84.28	135.90	0.62	
240.00	103.18	175.98	0.59	95.93	198.45	0.48	
235.00	118.87	175.98	0.68	110.54	198.45	0.56	
230.00	131.83	175.98	0.75	122.81	198.45	0.62	
225.00	153.56	175.98	0.87	139.47	198.45	0.70	
220.00	170.80	254.38	0.67	156.19	274.95	0.57	
215.00	180.51	254.38	0.71	165.01	274.95	0.60	
210.00	186.94	254.38	0.73	171.19	274.95	0.62	
205.00	194.56	254.38	0.76	178.11	274.95	0.65	
200.00							
195.00	200.45	254.38	0.79	183.62	274.95	0.67	
190.00	206.95	254.38	0.81	189.47	274.95	0.69	
185.00	212.41	254.38	0.84	194.48	274.95	0.71	
180.00	218.30	254.38	0.86	199.74	274.95	0.73	
173.33	224.20	239.46	0.94	205.06	274.95	0.75	
166.67	231.45	239.46	0.97	211.44	274.95	0.77	
160.00	237.87	239.46	0.99	217.14	274.95	0.79	
	244.66	309.64	0.79	223.00	327.10	0.68	
153.33	250.95	309.64	0.81	228.39	327.10	0.70	
146.67	257.52	309.64	0.83	233.94	327.10	0.72	
140.00	263.74	309.64	0.85	239.19	357.75	0.67	
133.33	270.14	309.64	0.87	244.55	357.75	0.68	
126.67	276.40	309.64	0.89	249.76	357.75	0.70	
120.00	284.15	334.65	0.85	256.21	378.00	0.68	
110.00	293.53	334.65	0.88	263.96	378.00	0.70	
	223.33	334.03	0.00	203.30	5.5.00	0.70	

100.00	302 91	334.65	0.91	271.60	378 00	0.72
90.00						
80.00	312.40	334.65	0.93	279.21	378.00	0.74
	321.91	334.65	0.96	286,80	378.00	0.76
70.00	331.44	334.65	0.99	294.37	378.00	0.78
60.00	341.16	507.33	0.67	301.89	523.32	0.58
50.00						
40.00	351.01	507.33	0.69	309.28	523.32	0.59
30.00	360.97	507.33	0.71	316.72	523.32	0.61
	370.92	507.33	0.73	324.11	523.32	0.62
20.00	380.92	507.33	0.75	331.50	576.00	0.58
10.00	390 82	507.33	0 77	338.78	576.00	0.59
0.00		307.33	0.77	330.78	570.00	0.33

FORCE/RESISTANCE RATIO IN DIAGONALS

MAST			SSION - FORCE/		Sino in	FORCE/
ELEV	MAX	COMP	RESIST	MAX	TENS	RESIST
ft	COMP	RESIST	RATIO	TENS	RESIST	RATIO
290.00						
285.00	0.75	7.16	0.10	0.88	7.16	0.12
280.00	3.52	7.16	0.49	3.34	7.16	0.47
275.00	3.65	7.16	0.51	3.52	7.16	0.49
	3.78	7.16	0.53	3.84	7.16	0.54
270.00	4.06	7.16	0.57	4.01	7.16	0.56
265.00	4.26	7.16	0.60	4.25	7.16	0.59
260.00	4.61	7.16	0.64	4.44	7.16	0.62
255.00	4.70	7.16	0.66	4.75	7.16	0.66
250.00	4.98	7.16	0.70	4.93	7.16	0.69
245.00	5.18	7.16	0.72	5.18	7.16	0.72
240.00						
235.00	5.92	10.74	0.55	5.61	10.74	0.52
230.00	5.63	10.74	0.52	5.84	10.74	0.54
225.00	6.13	10.74	0.57	5.89	10.74	0.55
220.00	10.12	10.74	0,94	10.03	10.74	0.93
	4.40	7.16	0.62	4.15	7.16	0.58
215.00	3.71	7.16	0.52	3.87	7.16	0.54
210.00	3.79	7.16	0.53	3.61	7.16	0.50
205.00	3.42	7.16	0.48	3.47	7.16	0.48
200.00	3.50	5.63	0.62	3.35	5.63	0.59
195.00	3.28	5.63	0.58	3.30	5.63	0.59
190.00	3.41	5.63	0.60	3.25	5.63	0.58
185.00						
180.00	3.24	5.63	0.58	3.26	5.63	0.58
173.33	3.70	5.14	0.72	3.51	5.14	0.68
166.67	3.50	5.14	0.68	3.51	5.14	0.68
160.00	3.68	5.14	0.72	3.50	5.14	0.68

53.33 -	3.56	7.46	0.48	3.57	7.46	0.48
	3.78	7.46	0.51	3.61	7.46	0.48
46.67 -	3.73	7.46	0.50	3.70	7.46	0.50
40.00 -	3.94	5.78	0.68	3.78	5.78	0.65
33.33 -	3.98	5.78	0.69	3.88	5.78	0.67
26.67 -	4.10	5.78	0.71	3.99	5.78	0.69
20.00 -	4.69	6.98	0.67	4.51	6.98	0.65
10.00 -	4.81	6.98	0.69	4.65	6.98	0.67
0.00 -	5.01	12.53	0.40	4.82	12.53	0.38
0.00 -	5.18	12.53	0.41	5.01	12.53	0.40
0.00 -	5.38	10.73	0.50	5.21	10.73	0.49
0.00 -	5.59	10.73	0.52	5.40	10.73	0.50
0.00 -	5.78	13.43	0.43	5.62	13.43	0.42
0.00 -						
0.00 -	6.03	13.43	0.45	5.84	13.43	0.43
0.00 -	6.22	14.31	0.43	6.06	14.31	0.42
0.00 -	6.43	14.31	0.45	6.25	14.31	0.44
	6.58	12.68	0.52	6.44	12.68	0.51
.0.00 -	6.80	12.68	0.54	6.60	12.68	0.52
0.00 -						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

	LOADCO	MPONENTS		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
33.21 S	26.62 e	395.23 S	-341.90 k	33.21 S

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

F	ORIZONTA	L	DOWN		OVERTURNING	3	TORSION	
NORTH	EAST @	TOTAL 0.0		NORTH	EAST	e 0.0		
53.1 S	-42.7 J	53.1 S	143.9 BT	8772.2 S	-7326.2 J	8772.2 S	-31.6 P	
		*******				********		

Latticed Tower Analysis (Unguyed) (c)2015 Guymast Inc. 416-736-7453 Processed under license at:

Sabre Towers and Poles	on: 27 s	sep 2022	at:	8:55:04

* Only 1 condition(s) shown in full * Some wind loads may have been derived from full-scale wind tunnel testing LOADING CONDITION A

60 mph wind with no ice. Wind Azimuth: 0. (1.0 D + 1.0 Wo)

PL - 0

	A second second second
MACT	LOADING
Triber T	TOUDTING

LOAD ELEV APPLY. LOAD. AT LOAD FORCES MOMENTS TYPE ft ft AZI AZI HORIZ DOWN VERTICAL TOSNAL C 285.0 0.00 0.0 0.0 2.19 4.00 0.00 0.00 D 290.0 0.00 180.0 0.0 0.02 0.04 0.00 0.00 D 285.0 0.00 180.0 0.0 0.02 0.04 0.00 0.00 D 285.0 0.00 42.0 0.0 0.03 0.04 0.02 0.02 D 260.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.33 0.06 0.02 0.02 D 225.0 0.00 42.0 0.0 0.33 0.08 0.02 0.02 D 220.0 0.00 34.2 0.0 0.04 <th></th> <th>10000</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>and the little</th> <th>ini i</th> <th></th>		10000						and the little	ini i	
ftftftkipkipft-kipft-kipC285.00.000.00.02.194.000.000.00D290.00.00180.00.02.786.000.000.00D285.00.00180.00.00.020.040.000.00D285.00.0042.00.00.030.040.020.02D260.00.0042.00.00.030.060.020.02D240.00.0042.00.00.030.060.020.02D240.00.0042.00.00.030.060.020.02D240.00.0042.00.00.030.080.020.02D225.00.0042.00.00.030.080.020.02D225.00.0042.00.00.030.080.030.02D220.00.0034.20.00.030.080.030.02D205.00.0038.70.00.040.090.030.02D205.00.0032.40.00.040.090.030.02D200.00.0022.30.00.040.100.050.02D180.00.0022.30.00.040.100.050.02D180.00.0017.60.00.040.11 <td< th=""><th>LOAD</th><th>ELEV</th><th></th><th></th><th>LOAD</th><th></th><th></th><th></th><th></th><th></th></td<>	LOAD	ELEV			LOAD					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TYPE			AZI	AZI					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		ft	ft			kip	kip	ft-kip	ft-kip	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		285.0		0.0		2.19	4.00			
D 285.0 0.00 180.0 0.0 0.02 0.04 0.00 0.00 D 285.0 0.00 42.0 0.0 0.03 0.04 0.02 0.02 D 260.0 0.00 42.0 0.0 0.03 0.04 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.08 0.02 0.02 D 225.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 220.0 0.00 34.2 0.0 0.04 0.09 0.03 0.02 D 205.0 0.00 38.7 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 22.5 0.0	C	225.0	0.00	0.0	0.0	2.78	6.00	0.00	0.00	
D 285.0 0.00 42.0 0.0 0.03 0.04 0.02 0.02 D 260.0 0.00 42.0 0.0 0.03 0.04 0.02 0.02 D 260.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.08 0.02 0.02 D 225.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 220.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 205.0 0.00 34.2 0.0 0.04 0.09 0.03 0.02 D 205.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 20.9 0.00	D	290.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00	
D 260.0 0.00 42.0 0.0 0.03 0.04 0.02 0.02 D 260.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.08 0.02 0.02 D 225.0 0.00 42.0 0.0 0.03 0.08 0.02 0.02 D 225.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 220.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 205.0 0.00 38.7 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 32.4 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 23.5 0.0	D	285.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	285.0	0.00	42.0	0.0	0.03	0.04	0.02	0.02	
D 240.0 0.00 42.0 0.0 0.03 0.06 0.02 0.02 D 240.0 0.00 42.0 0.0 0.03 0.08 0.02 0.02 D 225.0 0.00 42.0 0.0 0.03 0.08 0.02 0.02 D 225.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 220.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 200.0 0.00 34.2 0.0 0.04 0.10 0.03 0.02 D 205.0 0.00 34.2 0.0 0.04 0.09 0.03 0.02 D 205.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 32.4 0.0 0.04 0.10 0.03 0.02 D 160.0 0.00 22.3 0.0	D	260.0	0.00	42.0	0.0	0.03	0.04	0.02	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	260.0	0.00	42.0	0.0	0.03	0.06	0.02	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	240.0	0.00	42.0	0.0	0.03	0.06	0.02	0.02	
D 225.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 220.0 0.00 42.0 0.0 0.03 0.08 0.03 0.02 D 220.0 0.00 34.2 0.0 0.04 0.10 0.03 0.02 D 205.0 0.00 38.7 0.0 0.04 0.09 0.03 0.02 D 205.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 27.9 0.0 0.04 0.10 0.03 0.02 D 180.0 0.00 23.5 0.0 0.04 0.10 0.05 0.02 D 160.0 0.00 26.4 0.0 0.04 0.11 0.04 0.02 D 160.0 0.00 22.3 0.0	D	240.0	0.00	42.0	0.0	0.03	0.08	0.02	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	225.0	0.00	42.0	0.0	0.03	0.08	0.02	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	225.0	0.00	42.0	0.0	0.03	0.08	0.03	0.02	
D 205.0 0.00 38.7 0.0 0.04 0.09 0.03 0.02 D 205.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 40.9 0.0 0.04 0.09 0.03 0.02 D 200.0 0.00 32.4 0.0 0.04 0.10 0.04 0.02 D 180.0 0.00 23.5 0.0 0.04 0.10 0.05 0.02 D 160.0 0.00 26.4 0.0 0.04 0.11 0.04 0.02 D 160.0 0.00 22.3 0.0 0.04 0.11 0.05 0.02 D 140.0 0.00 17.6 0.0 0.05 0.14 0.06 0.02 D 120.0 0.00 15.8 0.0	D	220.0	0.00	42.0	0.0	0.03	0.08	0.03	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	220.0	0.00	34.2	0.0	0.04	0.10	0.03	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		205.0	0.00	38.7	0.0	0.04	0.09	0.03	0.02	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	205.0	0.00	40.9	0.0	0.04	0.09	0.03	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	200.0	0.00			0.04	0.09	0.03	0.02	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	200.0	0.00	27.9		0.04	0.10	0.04	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		180.0				0.04		0.03	0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	180.0			0.0	0.04			0.02	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D	160.0						0.05	0.02	
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D 40.0 0.00 10.8 0.0 0.05 0.25 0.10 0.01 D 20.0 0.00 11.3 0.0 0.05 0.25 0.10 0.01 D 20.0 0.00 11.3 0.0 0.05 0.25 0.09 0.01 D 20.0 0.00 10.0 0.0 0.04 0.25 0.10 0.01										
D 20.0 0.00 11.3 0.0 0.05 0.25 0.09 0.01 D 20.0 0.00 10.0 0.0 0.04 0.25 0.10 0.01										
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D 0.0 0.00 10.4 0.0 0.04 0.26 0.10 0.01										
	D	0.0	0.00	10.4	0.0	0.04	0.26	0.10	0.01	

MAXIMUM MAST DISPLACEMENTS:

ELEV	DEN	FLECTIONS (f	t)	TILTS	(DEG)	TWIST
ft	NORTH	EAST	DOWN	NORTH	EAST	DEG
290.0	1.864 S	-1.638 J	0.019 S	0.917 S	-0.824 J	0.111 h
285.0	1.784 S	-1.566 J	0.018 S	0.917 S	-0.824 J	0.111 h
280.0	1.703 S	-1.493 J	0.017 S	0.915 S	-0.822 J	0.111 h
275.0	1.623 S	-1.421 J	0.017 S	0.906 S	-0.813 J	0.110 h
270.0			0.016 S			0.109 h
265.0	1.466 S	-1.280 J	0.015 S	0.870 S	-0.778 J	0.107 h
260.0	1.391 S		0.014 S	0.842 S	-0.752 J	
255.0		-1.147 J	0.014 S	0.822 S		
250.0		-1.083 J	0.013 S	0.798 S		
245.0	1.175 S	-1.021 J	0.013 S	0.769 S		
240.0		-0.962 J	0.012 S	0.735 S		0.090 h
235.0	1.045 S	-0.905 J	0.012 S	0.709 S	-0.628 J	
230.0	0.984 S	-0.852 J	0.011 S	0.678 S		
225.0	0.925 S	-0.799 J	0.011 S	0.645 S	-0.569 J	0.079 h
220.0	0.869 S	-0.750 J	0.010 S	0.606 S	-0.534 J	0.075 h
215.0	0.817 S	-0.704 J	0.010 S	0.577 S	-0.508 J	0.069 h
210.0	0.767 S	-0.660 J	0.009 S	0.550 S	-0.483 J	0.063 h
205.0	0.720 S	-0.618 J	0.009 S	0.523 S	-0.459 J	0.058 h
200.0	0.675 S	-0.579 J	0.009 S	0.498 S	-0.436 J	0.053 h
195.0	0.632 S	-0.541 J	0.008 S	0.473 S	-0.414 J	0.049 h
190.0	0.591 S	-0.506 J	0.008 S	0.450 S	-0.393 J	0.045 h
185.0	0.552 S	-0.472 J	0.008 S	0.427 S	-0.372 J	0.041 h
180.0	0.515 S	-0.440 J	0.008 S	0.405 S	-0.352 J	0.037 h

76 S -0.327 J 49 S -0.302 J	0.034 h
49 C _0 302 T	
-U.JUL U	0.031 h
22 S -0.278 J	0.028 h
02 S -0.261 J	0.025 h
83 S -0.244 J	0.023 h
65 S -0.228 J	0.021 h
47 S -0.212 J	0.019 h
29 S -0.196 J	0.017 h
12 S -0.181 J	0.015 h
88 S -0.161 J	0.013 h
65 S -0.141 J	0.011 h
43 S -0.121 J	0.010 h
21 S -0.102 J	0.008 h
99 S -0.084 J	0.007 h
78 S -0.066 J	0.006 h
64 S -0.054 J	0.005 h
51 S -0.043 J	0.004 h
38 S -0.032 J	0.003 h
25 S -0.021 J	0.002 h
12 S -0.010 J	0.001 h
A 000.0 A 00	0.000 A
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0			0.14 A	0.00 A
285.0	0.04 S	0.33 S	0.03 S	0.00 A
280.0	0.00 A	1.07 A	0.40 B	0.00 A
275.0	2.75 A	1.14 D	0.08 B	0.00 A
270.0	5.68 B	1.31 V	0.01 S	0.00 A
265.0	8.81 A	1.33 V	0.09 B	0.00 A
260.0	12.03 A	1.43 D	0.27 A	
	15.41 A	1.46 D		0.00 A
255.0	19.18 A	1.61 V	0.11 A	0.00 A
250.0	22.88 A	1.64 D	0.01 S	0.00 A
245.0	26.87 A	1.74 V	0.11 A	0.00 A
240.0	30.75 A	1.84 A	0.39 A	0.00 A
235.0	35.49 A	1.97 S	0.13 B	0.00 A
230.0	39.56 A	1.97 A	0.00 a	0.00 A
225.0			0.11 B	A 00.0
220.0	43.67 A	3.35 V	0.23 т	0.00 A
215.0	49.24 A	1.34 C	0.12 A	0.00 A
210.0	51.98 A	1.33 U	0.02 A	0.00 A
205.0	54.03 A	1.18 C	0.08 A	0.00 A
200.0	56.19 A	1.18 U	0.03 A	0.00 A
195.0	57.98 A	1.11 C	0.06 A	0.00 A
	59.83 A	1.13 F	0.170/00	
190.0	61.44 A	1.08 C	0.05 A	0.00 A
185.0	63.09 A	1.11 X	0.04 A	0.00 A
180.0	64.79 A	1.18 C	0.05 A	0.00 A
173.3	66.79 A	1.20 X	0.05 A	0.00 A
166.7	68.60 A	1.18 X	0.04 A	0.00 A
160.0			0.04 A	0.00 A
	70.41 A	1.22 X		

153.3	72.06 A	1.23)	0.03 A	0.00 A
146.7			0.03 A	0.00 A
140.0	73.75 A	1.27 3	0.02 A	0.00 A
	75.36 A	1.29 2	¢ .	
133.3	76.98 A	1.33 2	0.05 A	0.00 A
126.7	78.56 A	1.36 1	0.02 A	A 00.0
120.0			0.05 A	0.00 A
110.0	80.52 A	1.54 1	0.04 A	0.00 A
	82.87 A	1.60 3	(
100.0	85.16 A	1.66 1	0.04 A	A 00.0
90.0	87.42 A	1.73 2	0.04 A	0.00 A
80.0			0.02 A	0.00 A
70.0	89.66 A	1.81 H	0.03 A	0.00 A
	91.90 A	1.88 1	0.02 A	0.00 A
60.0	94.05 A	1.96 3	¢	
50.0	96.09 A	2.03 1	0.02 A	0.00 A
40.0			0.02 A	0.00 A
30.0	98.13 A	2.11 3	0.02 A	0.00 A
20.0	100.16 A	2.18 3	0.00 A	0.00 A
	102.17 A	2.25 1	r	
10.0	104.14 A	2.30	0.02 A	0.00 A
0.0			0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0			-0.22 S	0.00 A
285.0	-0.28 A	-0.21 A	-0.01 A	0.00 A
205.0	-2.56 S	-1.23 S	0.01 R	0.00 4
280.0	-5.65 S	-1.26 D	-0.22 T	0.00 A
275.0	-5.65 5	-1.20 D	-0.04 T	0.00 A
2.2.2	-9.03 T	-1.25 D		
270.0	-12.23 S	-1.38 D	-0.01 A	0.00 A
265.0		1.50 5	-0.05 T	0.00 A
260.0	-15.74 S	-1.43 V	-0.20 S	0.00 A
260.0	-19.26 S	-1.57 S		0.00 A
255.0			-0.08 S	0.00 A
250.0	-23.54 S	-1.56 D	-0.01 A	0.00 A
200.0	-27.44 S	-1.68 V	0.01 1	0.00 1
245.0	-31.82 S	1 74 0	-0.08 S	0.00 A
240.0	-31,82 5	-1.74 D	-0.32 S	0.00 A
	-35.93 S	-2.02 S	0.000	
235.0	-41.35 S	-1.87 D	-0.09 T	0.00 A
230.0			-0.02 g	0.00 A
	-45.75 S	-2.07 S	-0.07 T	0.00 A
225.0	-54.31 S	-3.41 S	-0.07 1	0.00 A
220.0			-0.38 B	0.00 A
215.0	-60.15 S	-1.53 U	-0.08 S	0.00 A
	-63.60 S	-1.22 C		
210.0	-65.80 S	-1.30 U	-0.01 S	0.00 A
	-05.00 5	-1.30 0		

205.0	-68.51 S	-1.14 F	-0,06 S	0.00 A
200.0			-0.02 S	0.00 A
195.0	-70.57 S	-1.20 U	-0.04 S	0.00 A
190.0	-72.89 S	-1.11 X	-0.04 S	0.00 A
185.0	-74.82 S	-1.17 U	-0.03 S	0.00 A
180.0	-76.94 S	-1.09 X	-0.03 s	0.00 A
173.3	-79.04 S	-1.27 U	-0.04 S	0.00 A
	-81.67 S	-1.19 X		
166.7	-83.99 S	-1.27 U	-0.03 s	0.00 A
160.0	-86.48 S	-1.22 X	-0.03 S	0.00 A
153.3	-88.80 S	-1.30 U	-0.02 S	0.00 A
146.7	-91.24 S	-1.28 U	-0.02 S	0.00 A
140.0	-93.55 S	-1.36 U	-0.02 S	0.00 A
133.3	-95.93 S	-1.36 U	-0.04 S	0.00 A
126.7	-98.26 S	-1.41 U	-0.01 S	0.00 A
120.0			-0.03 S	0.00 A
110.0	-101.16 S	-1.62 U	-0.03 S	0.00 A
100.0	-104.67 S	-1.66 U	-0.03 S	0.00 A
90.0	-108.22 S	-1.74 U	-0.02 S	0.00 A
80.0	-111.84 S	-1.80 U	-0.02 S	0.00 A
70.0	-115.49 S	-1.87 U	-0.02 S	0.00 A
60.0	-119.15 S	-1.95 U	-0.01 S	0.00 A
	-122.94 S	-2.02 U	-0.01 S	0.00 A
50.0	-126.84 S	-2.10 U		
40.0	-130.79 S	-2.17 U	-0.01 S	0.00 A
30.0	-134.74 S	-2.25 U	-0.01 S	0.00 A
20.0	-138.72 S	-2.30 U	0.00 S	0.00 A
10.0	-142.67 S	-2.38 U	-0.01 S	0.00 A
0.0			0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

	LOADCO	MPONENTS		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
11.95 S	9.63 e	144.45 S	-104.96 A	11.95 S

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

	HORIZONTA	L	DOWN		OVERTURNING	3	TORSION
NORTH	EAST	TOTAL 0.0		NORTH	EAST	TOTAL @ 0.0	
18.2	-14.7	18.2	50.2	2986.5	-2502.7	2986.5	10.6
S	3	S	S	S	J	S	n

Seismic Load Effects Equivalent Lateral Force Procedure ANSI/TIA-222-G

					Ve	rtical Distributio	n of Seismic	Forces		
		Description	<u>h. (ft.)</u>	w, (kips)	W ₂ (kips)	w.h. ^{ke}	Feror En (kips)	Ev (kips)	1.2 D + 1.0 Ev (kips)	0.9 D - 1.0 (kips)
Parameters		Antenna Load	285.00	4.0000	4.0000	21,488,0376	1.3143	1.1464	5.9464	2.4536
Risk Category	Û.	Structure - Section 1	285.00	0.4890	0.4890	2,626.9126	0.1607	0.1401	0.7269	0.3000
R	3.000	Ladder/Line	282.50	0.0512	0.0973	271.3892	0.0166	0.0147	0.0761	0.0314
Ss	1.791	Ladder/Line	270.00	0.2048	0.2048	1,013.4147	0.0620	0.0587	0.3045	0.1256
S ₁	0.595	Structure - Section 2	270.00	0.8650	0.1946	4,280.2915	0.2618	0.2479	1.2859	0.5306
Site Class	C	Ladder/Line	250.00	0.2048	0.0000	901,5707	0.0551	0.0587	0.3045	0.1256
T _L (sec)	12.000	Structure - Section 3	250.00	1.1860	0.0000	5,221.0101	0.3193	0.3399	1.7631	0.7275
Fa	1.200	Ladder/Line	232.50	0.1536	0.0000	605.5791	0.0370	0.0440	0.2283	0.0942
Fv	1.405	Structure - Section 4	230.00	1.6460	0.0000	6,383.7413	0.3905	0.4717	2.4469	1.0097
SMS	2.149	Antenna Load	225.00	6.0000	0.0000	22,505.7032	1.3765	1.7196	8.9196	3.6804
SMI	0.836	Ladder/Line	222,50	0.0668	0.0000	246,3454	0.0151	0.0191	0.0993	0.0410
SDS	1.433	Ladder/Line	210.00	0.2672	0.0000	902.5030	0.0552	0.0766	0.3972	0.1639
Spi	0.557	Structure - Section 5	210.00	1.8810	0.0000	6,353.3242	0.3886	0.5391	2.7963	1.1538
Ts	0.389	Ladder/Line	190.00	0.2672	0.0000	775.1800	0.0474	0.0766	0.3972	0.1639
lo	1.000	Structure - Section 6	190.00	1.9250	0.0000	5,584.6612	0.3416	0.5517	2.8617	1.1808
Ω	1.500	Ladder/Line	170.00	0.2672	0.0000	654.6416	0.0400	0.0766	0.3972	0.1639
Cs	0.121	Structure - Section 7	170.00	2.0820	0.0000	5,100.9124	0.3120	0.5967	3.0951	1.277
h (ft)	290.00	Ladder/Line	150.00	0.2672	0.0000	541.2615	0.0331	0.0766	0.3972	0.1639
Kr	4,540	Structure - Section 8	150.00	2.6990	0.0000	5,467.3082	0.3344	0.7735	4.0123	1.6556
W _a (ft)	13.34	Ladder/Line	130.00	0.2672	0.0000	435,4852	0.0266	0.0766	0.3972	0.163
W _o (ft)	27.00	Structure - Section 9	130.00	2.9750	0.0000	4,848.6841	0.2966	0.8526	4.4226	1.8249
W (kips)	55.436	Ladder/Line	110.00	0.2672	0.0000	337.8568	0.0207	0.0766	0.3972	0,1639
W ₁ (kips)	21.848	Structure - Section 10	110.00	3.0090	0.0000	3,804.6821	0.2327	0.8624	4.4732	1.845
W ₂ (kips)	4.986	Ladder/Line	90.00	0.2672	0.0000	249.0623	0.0152	0.0766	0.3972	0.1639
f ₁ (Hertz)	0.650	Structure - Section 11	90.00	3.5970	0.0000	3,352.8331	0.2051	1.0309	5.3473	2.2064
T (sec)	1.539	Ladder/Line	70.00	0.2672	0.0000	170.0055	0.0104	0.0766	0.3972	0.1639
Ka	1.5195	Structure - Section 12	70.00	3.7300	0.0000	2,373.2053	0.1452	1.0690	5.5450	2.2880
V _s (kips)	6.708	Ladder/Line	50.00	0.2672	0.0000	101.9580	0.0062	0.0766	0.3972	0.1639
ismic Design Category	D	Structure - Section 13	50.00	5.0130	0.0000	1,912.8575	0.1170	1.4367	7.4523	3.0750
		Ladder/Line Structure - Section 14	30.00 30.00	0.2672 5.2530	0.0000	46.9161 922.3445	0.0029	0.0766	0.3972 7.8091	0.1639
		Ladder/Line	10.00	0.2672	0.0000	8.8376	0.0005	0.0766	0.3972	0.1639
		Structure - Section 15	10.00	5.4660	0.0000	180.7880	0.0111	1.5666	8.1258	3.3528
		Statistics Fight of	Σ	55.44	4.9857	109,669.30	6.71	15.89	82.41	34.00

					Leg Conn	ection Deta	ils					
					Top Splice		1		Bo	ottom Splice/	Base	
Bottom Elevation (ft)	Top Elevation (ft)	Pipe Dimensions	Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)	Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia (in)
280	290	2.875 OD X .203					1	6	0.75	6.50	1.00	8.50
260	280	2.875 OD X .203	6	0.75	6.50	1.00	8.50	6	0.75	6.50	1.00	8.50
240	260	3.500 OD X .300	6	0.75	6.50	1.00	8.50	6	1.00	9.00	1.25	11.50
220	240	4.500 OD X .337	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
200	220	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
180	200	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
160	180	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
140	160	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
120	140	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.25	12.50	1.75	15.75
100	120	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1,25	12.50	1.50	15.75
80	100	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
60	80	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
40	60	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
20	40	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
0	20	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.50	13.25	1.75	17.00

		Dia	gonal Braci	ng Connec	tion Detail	s		
Bottom Elevation (ft)	Top Elevation (ft)	Angle Shape	Bolt Qty.	Bolt Dia. (in)	Bolt End Distance (in)	Bolt Spacing (in)	Gage Distance From Heel (in)	Gusset Plate Thickness (in)
280	290	L 2 X 2 X 1/8	1	0.625	1.500	1.1.1.1	1.125	0.375
260	280	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
240	260	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
220	240	L 2 X 2 X 3/16	1	0.625	1.500	1	1.125	0.375
200	220	L 2 X 2 X 1/8	1	0.625	1.500	Margan and	1.125	0.375
180	200	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
160	180	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
140	160	L 2 1/2 X 2 1/2 X 3/16	1	0.625	1.500		1.375	0.375
120	140	L 2 1/2 X 2 1/2 X 3/16	1	0.750	1.500	1.1.2.23	1.375	0.375
100	120	L3X3X3/16	1	0.750	1.625	·	1.750	0.375
80	100	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
60	80	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625	1.5	1.750	0.375
40	60	L4X4X1/4	1	0.750	1.625		2.000	0.375
20	40	L4X4X1/4	2	0.625	1.625	2.1250	2.000	0.500
0	20	L4X4X1/4	2	0.625	1.625	2.1250	2.000	0.500

DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES

40

290' S3TL Series HD1 HORVATH COMMUNICATIONS INC Barlow, KY (457708) 09/27/22 REB

	Factored Uplift (kips)	342		
	Factored Download (kips)	395		
	Factored Shear (kips)	33		
	Ultimate Bearing Pressure	13.825		
	Bearing Φs	0.75		
	Bearing Design Strength (ksf)	10.36875		
	Water Table Below Grade (ft)	24		
	Bolt Circle Diameter (in)	13.25		
	Top of Concrete to Top			
	of Bottom Threads (in)	65.125		
	Pier Diameter (ft)	5	Minimum Pier Diameter (ft)	2.44
	Ht. Above Ground (ft)	1		
	Pier Length Below Ground (ft)	40		
	Rebar Quantity	16		
	Rebar Diameter (in)	1.27		
	Rebar Area (in ²)	20.27	Minimum Area of Steel (in ²)	14.14
	Rebar Spacing (in)	10.09		
	Tie Diameter (in)	0.5		
	Tie Spacing (in)	12		
	ťc (ksi)	4.5		
	fy (ksi)	60		
	Unit Wt. of Concrete (kcf)	0.15		
	Volume of Concrete (yd ³)	29.82		
	volume of concrete (ya)	23.02	Length to ignore download (ft)	
	Ignore bottom length in download?			
1	Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	Ult. Skin Friction (Uplift)	γ (kcf)
	3	0.10	0.10	0.11
	20	0.30	0.30	0.11
-	28	0.75	0.75	0.11
	33	0.75	0.75	0.11
	37	1.00	1.00	0.11
_				

0.75

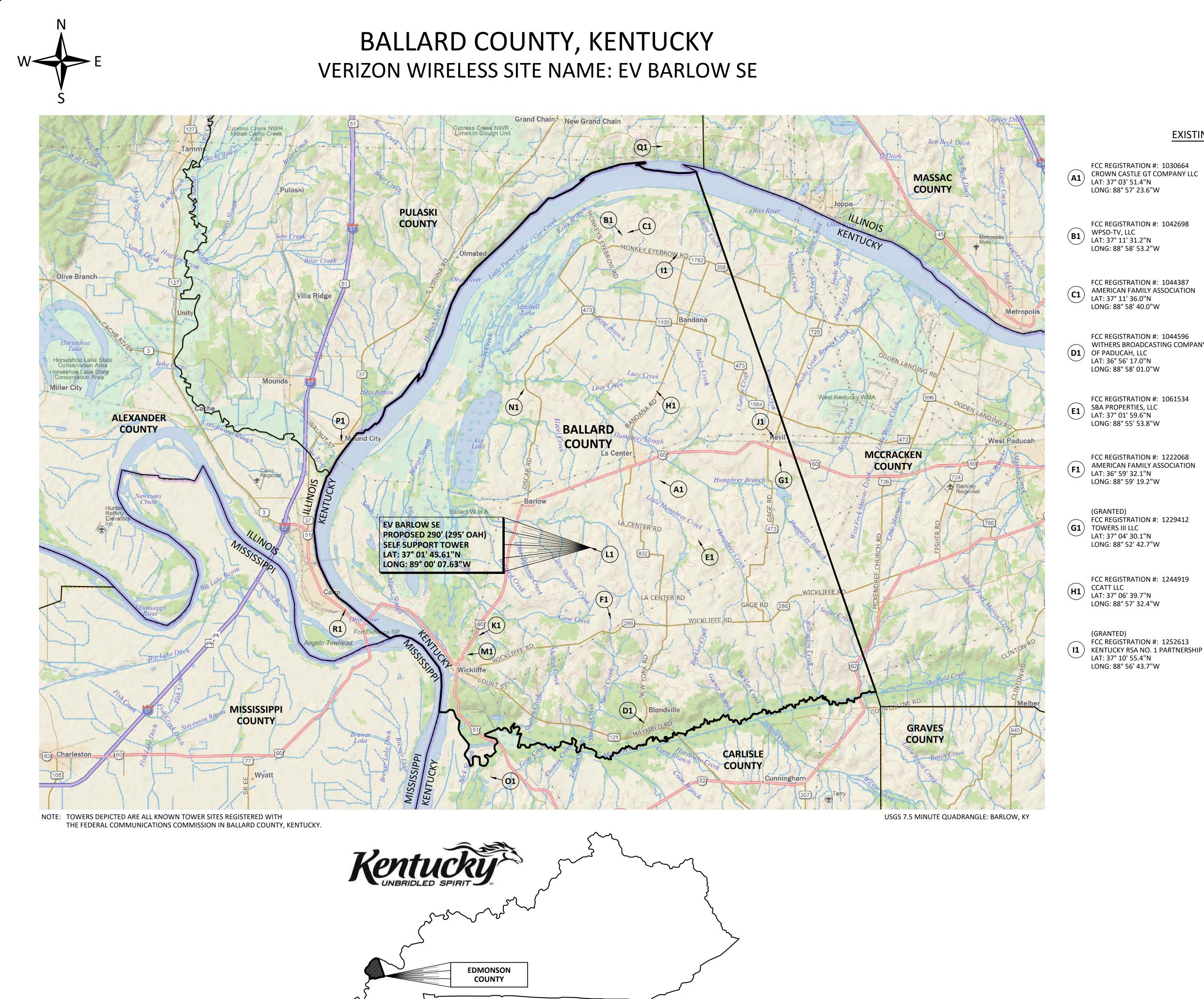
0.75

0.11

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DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES (CONTINUED)

Download:			
Φ _s , Download Friction	0.75		
Q _f , Skin Friction (kips)	336.2	W _s (kips)	86.4
Q _b , End Bearing Strength (kips)	271.5	W _c (kips)	120.8
Download Design Strength (kips)	455.7	Factored Net Download (kips)	436.2
Uplift (skin friction):			
Φ _s , Uplift	0.75		
Q _f , Skin Friction (kips)	336.2		
W _c (kips)	120.8		
W _w (kips)	19.6		
Uplift Design Strength (kips)	343.1	Factored Uplift (kips)	342.0
Uplift (cone):			
W _{s,cone} (kips)	3255.5		
W _{w,cone} (kips)	161.7		
W _c (kips)	120.8		
W _{w.cvl} (kips)	19.6		
Uplift Design Strength (kips)	2875.5	Factored Uplift (kips)	342.0
Tension:			
Design Tensile Strength (kips)	1094.5	Tu (kips)	342.0
Shear:		State State 1	
φV _n (kips)	249.0	V _u (kips)	33.0
φV _c =φ2(1+N _u /(500A _g))f' _c ^{1/2} b _w d (kips)	249.0		
V _s (kips)	0.0	*** $V_s max = 4 f'_c^{1/2} b_w d$ (kips)	772.8
Maximum Spacing (in)	7.81	(Only if Shear Ties are Required) *** Ref. ACI 11.5.5 & 11.5.6.3	-
Anchor Bolt Pull-Out:			
$\phi P_{c} = \phi \lambda (2/3) f'_{c}^{1/2} (2.8 A_{SLOPE} + 4 A_{FLAT})$	425.8	P _u (kips)	342.0
Rebar Development Length (in)	42.89	Required Development Length (in	N/A
Condition	1 is OK, 0 Fails		
Download	1		
Uplift	1	1	
Area of Steel	1		
Shear Anchor Bolt Pull-Out	1	1	
Interaction Diagram	1		



			PREPARED B	Y:	
EXISTING	G TOW	<u>'ER LEGEND</u>	PREPARED F	OR:	
1030664 MPANY LLC	JI	FCC REGISTRATION #: 1265272 TV6 HOLDINGS LLC LAT: 37° 05' 12.6"N LONG: 88° 52' 56.7"W			
1042698	(K1)	FCC REGISTRATION #: 1265530 KENTUCKY RSA NO. 1 PARTNERSHIP LAT: 36° 59' 01.1"N LONG: 89° 04' 29.2"W		/B/A	N
1044387 SOCIATION		(GRANTED) FCC REGISTRATION #: 1313667 KENTUCKY RSA NO. 1 PARTNERSHIP LAT: 37° 01' 45.6"N LONG: 88° 00' 07.6"W			
1044596 NG COMPANY	M1	FCC REGISTRATION #: 1318625 KENTUCKY STATE POLICE LAT: 36° 58' 24.9"N LONG: 89° 04' 58.4"W			
1061534	N1	(GRANTED) FCC REGISTRATION #: 1321587 KENTUCKY RSA NO. 1 PARTNERSHIP LAT: 37° 06' 42.1"N LONG: 89° 02' 44.5"W	REV. DATE		DNS ESCRIPTION
1222068 SOCIATION	01	FCC REGISTRATION #: 1030662 CROWN CASTLE GT COMPANY LLC LAT: 36° 54' 35.5"N LONG: 89° 04' 01.6"W	A 9.12.22		FOR REVIEW
1229412	(P1)	FCC REGISTRATION #: 1009365 ILLINOIS BELL TELEPHONE COMPANY LAT: 37° 05' 04.2"N LONG: 89° 09' 51.5"W			
1244919	Q1	FCC REGISTRATION #: 1008907 ROY WALKER COMMUNICATIONS INC LAT: 37° 14' 18.0"N LONG: 88° 57' 18.0"W	SITE	E INFORM	ATION:
1252613 PARTNERSHIP	R1	FCC REGISTRATION #: 1315224 TILLMAN INFRASTRUCTURE, LLC LAT: 36° 59' 49.1"N LONG: 89° 09' 43.4"W	WIC BA	BARLC /AYSIDE IN CKLIFFE, K ALLARD CC PARCEL N 37-17-0	NN RD Y 42087 DUNTY NUMBER:
			LORE/ 587	DPERTY C A & KENN 4 HINKLE CENTER, K	Y TURNER /ILLE RD
				URCE OF BOOK 77,	TITLE: PAGE 464
			POD NUM DRAWN BY CHECKED SURVEY DA PLAT DATE	Y: BY: ATE:	22-138399 DAP MEP 6.28.19 9.12.22
				SHEET TIT	ID MAP
			SHEET	NUMBER	



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

Issued Date: 05/24/2021

Network Regulatory Kentucky RSA No. 1 Partnership 5055 North Point Pkwy Alpharetta, GA 30005

** Extension **

A Determination was issued by the Federal Aviation Administration (FAA) concerning:

Structure:	Antenna Tower EV Barlow SE - C - 2505006
Location:	Wickliffe, KY
Latitude:	37-01-45.61N NAD 83
Longitude:	89-00-07.63W
Heights:	443 feet site elevation (SE)
	299 feet above ground level (AGL)
	742 feet above mean sea level (AMSL)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 11/24/2022 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

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

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ASO-26576-OE.

Signature Control No: 415690004-481750742

Angelique Eersteling Technician

Attachment(s) Additional Information

cc: FCC

Additional information for ASN 2019-ASO-26576-OE

All conditions previously cited in the original FAA determination will remain in effect.



KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR Governor Department of Aviation, 90 Airport Road Frankfort, KY 40601 www.transportation.ky.gov 502-564-0151

JIM GRAY Secretary

APPROVAL OF APPLICATION

Monday, August 22, 2022

APPLICANT Verizon Wireless c/o CMI ACQ 121 Village Blvd Madison, MS 39910

SUBJECT: AS-BALLARD-PAH-2022-084

STRUCTURE:	Antenna Tower
LOCATION:	Wickliffe, KY
COORDINATES:	37°01'45.61" N / 89°00'07.63" W
HEIGHT:	299' AGL / 742'AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct an Antenna Tower near Wickliffe, KY.

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

Medium Intensity Dual Obstruction Lighting is required in accordance with 602 KAR 50:100 and FAA Advisory Circular 70/74601-1 L

Brad Schwandt

Airport Zoning Administrator Department of Aviation Brad.Schwandt@ky.gov AirportZoning@ky.gov



An Equal Opportunity Employer M/F/D

Date: February 28, 2020

POD Job Number: 19-42119

GEOTECHNICAL REPORT

EV BARLOW SE 37° 01' 45.61" N 89° 00' 07.63" W

Wayside Inn Rd, Wickliffe, KY 42087

Prepared For:



Prepared By:



11490 Bluegrass Parkway | Louisville, Kentucky 40299 | 502.437.5252 POWER OF DESIGN GROUP, LLC



February 28, 2020

Mr. Mike Rerecich Verizon Wireless 2421 Holloway Road Louisville, KY 40299

Re: Geotechnical Report – PROPOSED 290' SELF-SUPPORT TOWER w/ 5' LIGHTNING ARRESTOR Site Name: EV BARLOW SE SE Site Address: Wayside Inn Rd, Wickliffe, Ballard County, Kentucky Coordinates: N37° 01' 45.61", W89° 00' 07.63" POD Project No. 19-42119

Dear Mr. Rerecich:

Attached is our geotechnical engineering report for the referenced project. This report contains our findings, an engineering interpretation of these findings with respect to the available project characteristics, and recommendations to aid design and construction of the tower and equipment support foundations.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact our office.

Cordially,

Max Pat

Mark Patterson, P.E. Project Engineer License No.: KY 16300

Copies submitted:

(3) Mr. Mike Rerecich



DigiSigner Document ID: 7e69f489-c18c-4bb1-8aca-ca9e806653d2

Geotechnical Report

EV BARLOW SE February 28, 2020

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BORING LOCATION PLAN BORING LOGS SOIL SAMPLE CLASSIFICATION DigiSigner Document ID: 7e69f489-c18c-4bb1-8aca-ca9e806653d2

Geotechnical Report

EV BARLOW SE February 28, 2020

Geotechnical Report PROPOSED 290' SELF-SUPPORT TOWER w/ 5' LIGHTNING ARRESTOR Site Name: EV BARLOW SE Wayside Inn Rd, Wickliffe, Ballard County, Kentucky N37° 01' 45.61", W89° 00' 07.63"

1. PURPOSE AND SCOPE

The purpose of this study was to determine the general subsurface conditions at the site of the proposed tower by drilling three borings and to evaluate this data with respect to foundation concept and design for the proposed tower. Also included is an evaluation of the site with respect to potential construction problems and recommendations dealing with quality control during construction.

2. PROJECT CHARACTERISTICS

Verizon is proposing to construct a self-support tower and either an equipment shelter, slab or platform at N37^{*} 01' 45.61", W89^{*} 00' 07.63", Wayside Inn Rd, Wickliffe, Ballard County, Kentucky. The site is located in a grass covered farm field in a rural area southeast of Barlow. The proposed lease area will be 10,000 square feet and will be accessed by a short access road running north off Wayside Inn Road. The proposed elevation at the tower location is about EL 443 and there is about 5-feet of change in elevation across the proposed lease area. The proposed tower location is shown on the Boring Location Plan in the Appendix.

3. SUBSURFACE CONDITIONS

The subsurface conditions were explored by drilling three test borings near the base of the proposed tower. The Geotechnical Soil Test Boring Logs, which are included in the Appendix, describes the materials and conditions encountered. A sheet defining the terms and symbols used on the boring logs is also included in the Appendix. The general subsurface conditions disclosed by the test borings are discussed in the following paragraphs.

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Quaternary age Loess silt.

The borings encountered about 6 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered clayey silt (ML) to the scheduled termination depths of 20 feet in B-2 and B-3 and to about 18.5 feet in B-1. The SPT N-values in the silt were between 3 and 8 blows per foot (bpf) generally indicating a soft to medium stiff consistency. At about 18.5 feet in B-1, silty clay (CL) of low plasticity was encountered with SPT N-values between 15 and 100 bpf generally indicating a stiff to hard consistency that was inflated by a significant about of rock fragments in many of the samples. A layer of dense, silty fine sand (SP) was encountered between about 33.5 feet and 37 feet

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before returning to the silty clay at about 37 feet to the scheduled termination depth of 40 feet.

Groundwater was noted on the drilling equipment in B-1 at about 28 feet and at 24 feet at completion. Groundwater was not encountered in Borings B-2 and B-3. It must be noted, however, that short-term water readings in test borings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is not stationary but will fluctuate seasonally.

Based on the limited subsurface conditions encountered at the site and using Table 1615.1.1 of the 2018 Kentucky Building Code, the site class is considered "C". Seismic design requirements for telecommunication towers are given in section 1622 of the code. A detailed seismic study was beyond the scope of this report.

4. FOUNDATION DESIGN RECOMMENDATIONS

The following design recommendations are based on the previously described project information, the subsurface conditions encountered in our borings, the results of our laboratory testing, empirical correlations for the soil types encountered, our analyses, and our experience. If there is any change in the project criteria or structure location, you should retain us to review our recommendations so that we can determine if any modifications are required. The findings of such a review can then be presented in a supplemental report or addendum.

We recommend that the geotechnical engineer be retained to review the near-final project plans and specifications, pertaining to the geotechnical aspects of the project, prior to bidding and construction. We recommend this review to check that our assumptions and evaluations are appropriate based on the current project information provided to us, and to check that our foundation and earthwork recommendations were properly interpreted and implemented.

4.1. Proposed Tower

Our findings indicate that the proposed self-support tower can be supported on drilled piers or on a common mat foundation.

4.1.1. Drilled Piers

The following table summarizes the recommended values for use in analyzing lateral and frictional resistance for the various strata encountered at the test boring. It is important to note that these values are estimated based on the

EV BARLOW SE February 28, 2020

standard penetration test results and soil types and were not directly measured. The all values provided are ultimate values and appropriate factors of safety should be used in conjunction with these values. If the piers will bear deeper than about 40 feet, a deeper boring should be drilled to determine the nature of the deeper material.

Depth Below Ground Surface, feet	0-3	3 - 20	20-28	28-33	33-37	37 - 40
Ultimate Bearing Pressure (psf)		5,500	13,825	13,825	24,180	13,825
C Undrained Shear Strength, psf	500	1000	2,500	2,500	0	2,500
Ø Angle of Internal Friction degrees	0	0	0	0	32°	0
Total Unit Weight, pcf	110	120	120	130	120	130
Soil Modulus Parameter k, pci	30	500	750	750	90	750
Passive Soil Pressure, psf/one foot of depth		675 + 40(D-3)	1,675 + 40(D-20)	1,675 + 43(D-28)	52024 (D²)	1,675 + 43(D-37)
Side Friction, psf	100	300	750	750	1000	750

Note: D = Depth below ground surface (in feet) to point at which the passive pressure is calculated.

It is important that the drilled piers be installed by an experienced, competent drilled pier contractor who will be responsible for properly installing the piers in accordance with industry standards and generally accepted methods, without causing deterioration of the subgrade. The recommendations contained herein relate only to the soil-pier interaction and do not account for the structural design of the piers.

4.1.2. Mat Foundation

The tower could be supported on a common mat foundation bearing on the silty soils at least 3 feet in depth can be designed using a net allowable bearing pressure of 2,000 pounds per square foot may be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. The friction value can be increased to 0.30 between the concrete and silty soils. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

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It is important that the mat be designed with an adequate factor of safety with regard to overturning under the maximum design wind load.

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the natural clay and designed for a net allowable soil pressure of 1,500 pounds per square foot. The piers should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

4.3. Equipment Slab

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 85 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the silty soil and designed for a net allowable soil pressure of 1,500 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil, they should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 85 lbs/cu.in. can be used for design of the floor slabs.

EV BARLOW SE February 28, 2020

4.5. Drainage and Groundwater Considerations

Good site drainage must be provided. Surface run-off water should be drained away from the tower and platform and not allowed to pond.

At the time of this investigation, groundwater was encountered has high as 24 feet. Any seepage should be able to be pumped with sumps. It is important that all foundation concrete be placed the same day the excavation is made.

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

It is possible that variations in subsurface conditions will be encountered during construction. Although only minor variations that can be readily evaluated and adjusted for during construction are anticipated, it is recommended the geotechnical engineer, or a qualified representative be retained to perform continuous inspection and review during construction of the soils-related phases of the work. This will permit correlation between the test boring data and the actual soil conditions encountered during construction.

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

- Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
- Make provisions for ground water removal from the drilled shaft excavation. Groundwater was encountered has high has 24 feet during the soil drilling and some significant seepage may be encountered. The drilled pier contractor should have pumps on hand to remove water from the drilled pier.
- Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.
- Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly

EV BARLOW SE February 28, 2020

placed concrete.

Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

5.2 Fill Compaction

All engineered fill placed adjacent to and above the tower foundation should be compacted to a dry density of at least 95 percent of the standard Proctor maximum dry density (ASTM D-698). This minimum compaction requirement should be increased to 98 percent for any fill placed below the tower foundation bearing elevation. Any fill placed beneath the tower foundation should be limited to well-graded sand and gravel or crushed stone. The compaction should be accomplished by placing the fill in about 8 inch (or less) loose lifts and mechanically compacting each lift to at least the specified minimum dry density. Field density tests should be performed on each lift as necessary to ensure that adequate moisture conditioning and compaction is being achieved.

Compaction by flooding is not considered acceptable. This method will generally not achieve the desired compaction and the large quantities of water will tend to soften the foundation soils.

5.3 Construction Dewatering

At the time of this investigation, groundwater was encountered at about 24 feet. Any seepage should be able to be pumped with sumps.

If groundwater is encountered in the drilled pier excavations, it may be difficult to dewater since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the termie method.

6 FIELD INVESTIGATION

Three soil test borings were drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings were terminated at the scheduled depths of 20 and 40 feet. The split-spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory. Pocket Penetrometer tests, moisture contents and Atterberg limits were performed and noted on the boring logs.

EV BARLOW SE February 28, 2020

The boring logs are included in the Appendix along with a sheet defining the terms and symbols used on the logs and an explanation of the Standard Penetration Test (SPT) procedure. The logs present visual descriptions of the soil strata encountered, Unified System soil classifications, groundwater observations, sampling information, laboratory test results, and other pertinent field data and observations.

7 WARRANTY AND LIMITATIONS OF STUDY

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either express or implied. POD Group is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

A geotechnical study is inherently limited since the engineering recommendations are developed from information obtained from test borings, which depict subsurface conditions only at the specific locations, times and depths shown on the logs. Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soil conditions to change from those described in this report.

The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly completed. If significant variations or changes are in evidence, it may then be necessary to reevaluate the recommendations of this report. Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

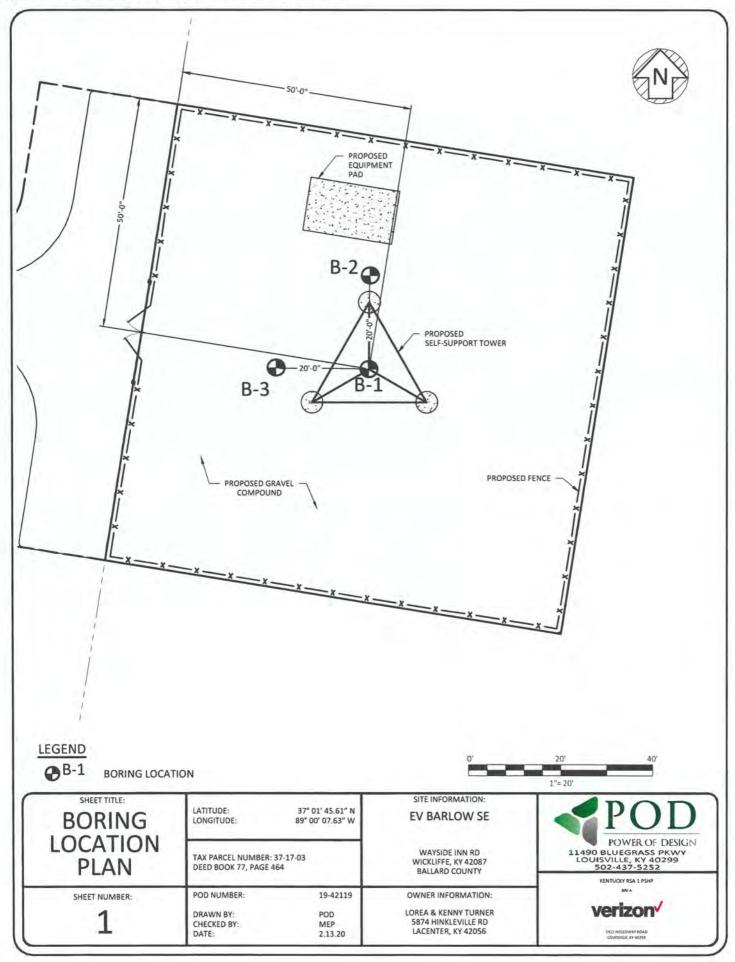
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APPENDIX

BORING LOCATION PLAN BORING LOGS SOIL SAMPLE CLASSIFICATION

DigiSigner Document ID: 7e69f489-c18c-4bb1-8aca-ca9e806653d2



	Pro	ject:	EV Ba	arlow SE								City,	Stat	e		Wickli	ffe, KY	
Meth	nod:		H.S.A.	Boring Dat	te:		18-Feb	-20	_		-	Locati	on: P	roposed	Tower			-
Inside	e Diame	eter: 2	1/4"	Drill Rig Ty	/pe:	_		66	DT			Hamn	ner T	ype: Au	ito			
			oundwater no wealth Drill	ted at 28' on ro		_	completic ut 6 inche	_	topso	oil wa	s enc	Weat		he grou	nd surfa	ce		_
				ing co	1.00.001	1		1					1				112	110
	From (ft)	To (ft)	Mat	erial Descriptio	n		Sample Depth (ft)	Sample Type		6-inch	increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive
	0.5	18.5	CLAYEY SILT	CLAYEY SILT (ML) - soft, moist, brown			1-2.5	SS	1,	1,	2	18	3,	1.00		28%		0.0
	3.5 - medium stiff 8.5 - very moist		- medium stiff				3.5 -5	SS	3,	3,	4	6	7,			28%		3.3
						6-7.5	SS	з,	з,	3	16	6,			27%		1.3	
			- very moist				8.5-10	SS	2,	З,	3	16	6,			27%		0.5
							13.5-15	SS	з,	З,	5	12	8,			23%		0.5
	18.5	33.5	SILTY CLAY (CL) - very stiff, reddish brown with rock, chert and gravel fragments			18.5-20	SS	5,	7,	10	10	17,			18%		4.5	
	23.5 - hard, moist		- hard, moist w	ith gravel, sand a	ind chert		23.5-25	SS	28,	50,	50	12	100,			12%		
							28.5-30	SS	26,	49,	50	13	99,			13%		
	33.5	37.0	- SILTY fine SAN	ND (SP) - dense, liį	ght orange		33.5-35	SS	18,	24,	31	13	55,			19%		
	37.0	40.0		L) - stiff, very ligh orange brown	nt gray and		38.5-40	SS	4,	7,	8	9	15,			24%		
			Boring	Terminated at 40	Teet													

Signer	r Docur	ment IB		POWER OF DESIGN	36653d2			B	Bor	ing I	Log			Borin Page	1 of 1			
	Pro	ject:		Barlow SE		-				City,	Stat	e	-	Wickli	ffe, KY			
Meth	nod:		H.S.A.	Boring Date:	18-Feb	-20				Locatio	on: P	roposed	Towe	Tower				
_	e Diame			Drill Rig Type:		66	5 D1	г				ype: Au	uto					
	indwat		wealth Dri	lling Co. Note:	About 6 inche	sof	tons	oilwa	s on	Weat		he grou	nd surfa	CO				
Drille	er: cor	I		ling co		501	lops		is end	-	l			1				
	From (ft)	To (ft)	Ma	aterial Description	Sample Depth (ft)	Sample Type		Blows per 6-inch	increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive		
	0.5	20.0		LT (ML) - soft, moist, brown	1-2.5	SS	0,		3	13	4,			27%		1.0		
		3.5	- medium stif	f, brown-gray	3.5 -5	SS	2,		3	14	6,			24%		2.0		
		6.0	- light brown		6-7.5	SS	3,	з,	4	18	7,			25%		1.0		
		8.5	- soft, very m	oist	8.5-10	SS	2,	2,	2	15	4,			26%		0.5		
		13.5	- medium stif	Ŧ	13.5-15	SS	2,	З,	5	16	8,			23%		1.0		
		17.0	- red with roc	k and chert fragments														
		-	Boring	g Terminated at 20 feet	18.5-20	SS	7,	12,	17	12	29,			14%		2.0		

signer Doc i	POWER OF DESIGN										Boring: B-3 Page 1 of 1							
Pr	oject:	EV B	arlow SE							City,	Stat	e		Wickliffe, KY Tower				
Method:		H.S.A.	Boring Date:	1	8-Feb	-20	-		-	Locatio	on: P	roposed	Tower					
Inside Diar	neter: 2 1	./4"	Drill Rig Type:			66	DT				_	ype: Au						
Groundwa			Notes	About	6 incho			iluur		Weat		he grou	ad curfa					
Driller: C	ommon	wealth Dril	ling Co			Sort	opso	on wa	is end	-	l	-	iu suria		_	1		
Fron (ft)		Ма	terial Description		Sample Depth (ft)	Sample Type	Diame and	6-inch	increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive		
0.5	20.0	CLAYEY SIL	۲ (ML) - soft, slightly moist, brown		1-2.5	SS	1,	2,	2	12	4,			27%		1.0		
	3.5	- medium stiff	, brown-gray		3.5 -5	SS	з,	з,	5	18	8,			25%		1.4		
	6.0	- moist			6-7.5	SS	2,	з,	5	14	8,			26%		1.0		
					8.5-10	SS	2,	з,	4	13	7,			25%		0.5		
	13.5	- reddish brow	vn		13.5-15	SS	3,	з,	4	15	7,			22%		0.5		
	17.0	- very stiff wit	h rock and chert fragments	1	8.5-20	SS	6,	8,	17	16	20			13%		4.5		
		Boring	Terminated at 20 feet				0,	8,	12	16	20,			13%		4.5		

					SOIL INFOR		
	GRAINED SOILS S & GRAVELS)	F	INE GRAIN)	PARTI	CLE SIZE
N	Relative Density	N	Consist	tency	Qu, KSF Estimated	Boulders	Greater than 300 mm (12 in)
0-4	Very Loose	0-1	Very S	Soft	0-0.5	Cobbles	75 mm to 300 mm (3 to 12 in)
5-10	Loose	2-4	Sot		0.5-1	Gravel	4.74 mm to 75 mm (3/16 to 3 in)
11-20	Firm	5-8	Firr	m	1-2	Coarse Sand	2 mm to 4.75 mm
21-30	Very Firm	9-15	Stif	ff	2-4	Medium Sand	0.425 mm to 2 mm
31-50	Dense	16-30	Very		4-8	Fine Sand	0.075 mm to 0.425 mm
Over 50	Very Dense	Over 31	Har		8+	Silts & Clays	Less than 0.075 mm
otain relative dens 40 lb. hammer falli	ity and consistency information.	A standa either be o	ard 1.4-inch of a trip, free	I.D./2-in e-fall de	nch O.D. split-l sign, or actuate	barrel sampler is ed by a rope and	ple for examination and testing and driven three 6-inch increments with cathead. The blow counts required es.
			ROCK PF	ROPER	RTIES		
	QUALITY DESIGNATION (RQD)				ROCK HARD	
Percent RQD	Quality		Very H			broken by heavy	
0-25	Very Poor		Hard:			be broken by thu mmer blows.	mb pressure, but can be broken by
25-50	Poor		Mode				ff along sharp edges by considerable
50-75	Fair		Hard:				broken with light hammer blows.
75-90			Soft:				ery easily with thumb pressure at
				0-0-			th firm hand pressure.
90-100	Excellent		Very S	Soft:	Rock disinte hard to very		ompresses when touched; can be
lecovery =	Length of Rock Core Recov Length of Core Run	ilin-	X100	NC	REC	Core Diameter BQ NQ HQ	Inches 1-7/16 1-7/8 2-1/2
		ilin-		NG 43	19-1-1-	BQ NQ	1-7/16 1-7/8
	Length of Core Run m of 4 in. and longer Rock Pieces	ilin-	<u>ed</u> X100	NG 43	RQD	BQ NQ	1-7/16 1-7/8
	Length of Core Run m of 4 in. and longer Rock Pieces	s Recovere	<u>ed</u> X100 SYN	NC 43	RQD	BQ NQ HQ	1-7/16 1-7/8
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DIRECTIONS TO SITE

FROM BALLARD COUNTY CIRCUIT CLERK: 132 4TH ST, WICKLIFFE, KY 42087: HEAD SOUTH ON 4TH ST TOWARD COURT ST (197 FEET). TURN LEFT AT THE 1ST CROSS STREET ONTO COURT ST (0.4 MILES). TURN LEFT ONTO KY-286/PHILLIPS DR (1.2 MILES). TURN LEFT ONTO BUCK RD (0.4 MILES). TURN RIGHT ONTO KY-1290 (4.0 MILES). TURN LEFT ONTO S WAYSIDE INN RD (1.6 MILES). SITE WILL BE LOCATED ON RIGHT (EAST) SIDE OF ROAD.

Prepared by: POWER OF DESIGN 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 502-437-5252 SITE NAME: EV Barlow SE SITE NUMBER: 49ちんぷイ ATTY/DATE

LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this <u>13</u> day of <u>anuar</u> 2019, ²⁰ between Kenny Turner and Lorea Turner, Husband and Wife, and both residents of the State of Kentucky with a mailing address of 3819 Tabor Rd., Barlow, Kentucky 42024, hereinafter collectively designated LESSOR and Cellco Partnership d/b/a Verizon Wireless with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

WITNESSETH

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

GRANT. In accordance with this Agreement, LESSOR hereby grants to LESSEE the right to 1. install, maintain and operate a telecommunications tower, facility, and equipment ("Use") upon the Premises (as hereinafter defined), which are a part of that real property owned, leased or controlled by LESSOR at 0 Wayside Inn Rd., Wickliffe, Kentucky 42087 (the "Property"). The Property is legally described on Exhibit "A" attached hereto and made a part hereof. The Premises are a portion of the Property including a portion of the parcel of land space (the "Land Space") consisting of approximately 100' x 100', or 10,000 square feet of land, as shown in detail on Exhibit "B" attached hereto and made a part hereof. LESSOR hereby grants permission to LESSEE to install, maintain and operate the telecommunications tower, facility, and equipment, antennas and appurtenances described in Exhibit "B" attached hereto. LESSEE reserves the right to replace the aforementioned equipment with similar and comparable equipment. In addition, LESSOR hereby grants to LESSEE a non-exclusive right (the "Easements") over the Property for access, ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along a thirty foot (30') wide right-of-way extending from the nearest public right-of-way, Wayside Inn Rd., to the Land Space, and for the installation and maintenance of utility wires, poles, cables, conduits, fiber, and pipes over, under, or along one or more rights of way from the Land Space, said Land Space and Rights of Way (hereinafter collectively referred to as the "Premises") being substantially as described herein in Exhibit "B" attached hereto and made a part hereof. The Property is also shown on the Tax Map of the City of Wickliffe as Tax Map ID Number 37-17-03 and is further described in a certain Warranty Deed dated November 9, 2005, and recorded on November 10, 2005, and recorded in the Office of the Ballard County Recorder in Deed Book 77, Page 464.

In the event any public utility is unable to use the Easements, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE.

LESSEE may survey the Premises and said survey shall then become Exhibit "C" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "B". Cost for such work shall be borne by the LESSEE.

2. <u>INITIAL TERM</u>. This Agreement shall be effective as of the date of execution by both Parties ("Effective Date"). The initial term of the Agreement shall be for five (5) years beginning on the first (1st) day of the month following the Commencement Date (as hereinafter defined). The

"Commencement Date" shall be the first (1st) day of the month after LESSEE begins installation of LESSEE's communications equipment once the construction of the new tower has been completed. LESSOR and LESSEE agree that they shall acknowledge, in writing, the Commencement Date once construction of the telecommunications facility has commenced.

3. <u>EXTENSIONS</u>. This Agreement shall automatically be extended for 4 additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least three (3) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

4. <u>RENTAL</u>.

(a). Rental payments shall begin on the Commencement Date and be due at a total annual rental of **Second Second Se**

(b). For any party to whom rental payments are to be made, LESSOR or any successor in interest of LESSOR hereby agrees to provide to LESSEE (i) a completed, current version of Internal Revenue Service Form W-9, or equivalent; (ii) complete and fully executed state and local withholding forms if required; and (iii) other documentation to verify LESSOR's or such other party's right to receive rental as is reasonably requested by LESSEE. Rental shall accrue in accordance with this Agreement, but LESSEE shall have no obligation to deliver rental payments until the requested documentation has been received by LESSEE. Upon receipt of the requested documentation, LESSEE shall deliver the accrued rental payments as directed by LESSOR.

(c). T	he annual rental for the first (1st) five (5) year extension term shall	
	; the annual r	rental for the second
(2nd) five (5)	year extension term shall be increased to any second s	
	the annual rental for the third (3rd) five (5) year exte	nsion term shall be
increased to		; and the
annual rental	for the fourth (4th) five (5) year extension term shall be increased	to

(d). ADDITIONAL EXTENSIONS. If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to the annual rental payable

with respect to the immediately preceding five (5) year term. The initial term and all extensions shall be collectively referred to herein as the "Term".

5. <u>ACCESS</u>. LESSEE shall have the non-exclusive right of ingress and egress from a public right-of-way, 7 days a week, 24 hours a day, over the Property to and from the Premises for the purpose of installation, operation and maintenance of LESSEE's communications equipment over or along a thirty foot (30') right-of-way ("Easement"), which shall be depicted on Exhibit "B". LESSEE may use the Easement for the installation, operation and maintenance of wires, cables, conduits and pipes for all necessary electrical, telephone, fiber and other similar support services. In the event it is necessary, LESSOR agrees to grant LESSEE or the provider the right to install such services on, through, over and/or under the Property, provided the location of such services shall be reasonably approved by LESSOR. Notwithstanding anything to the contrary, the Premises shall include such additional space sufficient for LESSEE's radio frequency signage and/or barricades as are necessary to ensure LESSEE's compliance with Laws (as defined in Paragraph 27).

6. <u>CONDITION OF PROPERTY</u>. LESSOR shall deliver the Premises to LESSEE in a condition ready for LESSEE's Use and clean and free of debris. LESSOR represents and warrants to LESSEE that as of the Effective Date, the Premises (a) in compliance with all Laws; and (b) in compliance with all EH&S Laws (as defined in Paragraph 24).

7. <u>IMPROVEMENTS</u>. The communications equipment including, without limitation, the tower, equipment shelters/platforms, antenna mounts, antennas, conduits, and other improvements shall be at LESSEE's expense and installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its communications equipment, antennas, conduits, fencing and other screening, or other improvements or any portion thereof and the frequencies over which the communications equipment operates, whether or not any of the communications equipment, antennas, conduits or other improvements are listed on any exhibit.

8. <u>GOVERNMENT APPROVALS</u>. LESSEE's Use is contingent upon LESSEE obtaining all of the certificates, permits and other approvals (collectively the "Government Approvals") that may be required by any Federal, State or Local authorities (collectively, the "Government Entities") as well as a satisfactory soil boring test, environmental studies, or any other due diligence LESSEE chooses that will permit LESSEE's Use. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to LESSEE's Use.

9. <u>TERMINATION</u>. LESSEE may, unless otherwise stated, immediately terminate this Agreement upon written notice to LESSOR in the event that (i) any applications for such Government Approvals should be finally rejected; (ii) any Government Approval issued to LESSEE is canceled, expires, lapses or is otherwise withdrawn or terminated by any Government Entity; (iii) LESSEE determines that such Government Approvals may not be obtained in a timely manner; (iv) LESSEE determines any structural analysis is unsatisfactory; (v) LESSEE, in its sole discretion, determines the Use of the Premises is obsolete or unnecessary; (vi) with 3 months prior notice to LESSOR, upon the annual anniversary of the Commencement Date; or (vii) at any time before the Commencement Date for any reason or no reason in LESSEE's sole discretion.

10. INDEMNIFICATION. Subject to Paragraph 12, each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnified Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents. The indemnified Party will provide the indemnifying Party with prompt, written notice of any claim covered by this indemnification; provided that any failure of the indemnified Party to provide any such notice, or to provide it promptly, shall not relieve the indemnifying Party from its indemnification obligation in respect of such claim, except to the extent the indemnifying Party can establish actual prejudice and direct damages as a result thereof. The indemnified Party will cooperate appropriately with the indemnifying Party in connection with the indemnifying Party's defense of such claim. The indemnifying Party shall defend any indemnified Party, at the indemnified Party's request, against any claim with counsel reasonably satisfactory to the indemnified Party. The indemnifying Party shall not settle or compromise any such claim or consent to the entry of any judgment without the prior written consent of each indemnified Party and without an unconditional release of all claims by each claimant or plaintiff in favor of each indemnified Party.

11. INSURANCE. The Parties agree that at their own cost and expense, each will maintain commercial general liability insurance with limits not less than \$2,000,000 for injury to or death of one or more persons in any one occurrence and \$2,000,000 for damage or destruction in any one occurrence. The Parties agree to include the other Party as an additional insured. The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss – Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

12. <u>LIMITATION OF LIABILITY</u>. Except for indemnification pursuant to Paragraphs 10 and 24, a violation of Paragraph 30, or a violation of law, neither Party shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

13. INTERFERENCE.

(a). LESSOR agrees that LESSOR and other occupants of the Property will not cause interference to LESSEE's equipment (that is measurable in accordance with industry standards to the then existing equipment of LESSEE).

(b). Without limiting any other rights or remedies, if interference occurs and continues for a period in excess of 48 hours following notice to the interfering party via telephone to

LESSEE'S Network Operations Center (at (800) 224-6620/(800) 621-2622) or to LESSOR at (270) 836-7061, the interfering party shall or shall require any other user to reduce power or cease operations of the interfering equipment until the interference is cured.

(c). The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and therefore the Parties shall have the right to equitable remedies such as, without limitation, injunctive relief and specific performance.

14. <u>REMOVAL AT END OF TERM</u>. Upon expiration or within ninety (90) days of earlier termination, LESSEE shall remove LESSEE's Communications Equipment (except footings) and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that the communications equipment shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LESSEE to remain on the Premises after termination of the Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

15. <u>HOLDOVER</u>. If upon expiration of the Term the Parties are negotiating a new lease or a lease extension, then this Agreement shall continue during such negotiations on a month to month basis at the rental in effect as of the date of the expiration of the Term. In the event that the Parties are not in the process of negotiating a new lease or lease extension and LESSEE holds over after the expiration or earlier termination of the Term, then LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

RIGHT OF FIRST REFUSAL. If at any time after the Effective Date, LESSOR receives an offer 16. or letter of intent from any person or entity that is in the business of owning, managing or operating communications facilities or is in the business of acquiring landlord interests in agreements relating to communications facilities, to purchase fee title, an easement, a lease, a license, or any other interest in the Premises or any portion thereof or to acquire any interest in this Agreement, or an option for any of the foregoing, LESSOR shall provide written notice to LESSEE of said offer ("LESSOR's Notice"). LESSOR's Notice shall include the prospective buyer's name, the purchase price being offered, any other consideration being offered, the other terms and conditions of the offer, a description of the portion of and interest in the Premises and/or this Agreement which will be conveyed in the proposed transaction, and a copy of any letters of intent or form agreements presented to LESSOR by the third party offeror. LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the terms and conditions of such offer or by effectuating a transaction with substantially equivalent financial terms. If LESSEE fails to provide written notice to LESSOR that LESSEE intends to meet such bona fide offer within thirty (30) days after receipt of LESSOR's Notice, LESSOR may proceed with the proposed transaction in accordance with the terms and conditions of such third party offer, in which event this Agreement shall continue in full force and effect and the right of first refusal described in this Paragraph shall survive any such conveyance to a third party. If LESSEE provides LESSOR with notice of LESSEE's intention to meet the third party offer within thirty (30) days after receipt of LESSOR's Notice, then if LESSOR's Notice describes a transaction involving greater space than the Premises, LESSEE

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may elect to proceed with a transaction covering only the Premises and the purchase price shall be pro-rated on a square footage basis. Further, LESSOR acknowledges and agrees that if LESSEE exercises this right of first refusal, LESSEE may require a reasonable period of time to conduct due diligence and effectuate the closing of a transaction on substantially equivalent financial terms of the third party offer. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale for which LESSEE has any right of first refusal.

17. <u>RIGHTS UPON SALE</u>. Should LESSOR, at any time during the Term, decide (i) to sell or otherwise transfer all or any part of the Property, or (ii) to grant to a third party by easement or other legal instrument an interest in and to any portion of the Premises, such sale, transfer, or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder. In the event that LESSOR completes any such sale, transfer, or grant described in this Paragraph without executing an assignment of the Agreement whereby the third party agrees in writing to assume all obligations of LESSOR under this Agreement, then LESSOR shall not be released from its obligations to LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of the Agreement.

18. <u>LESSOR'S TITLE.</u> LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises. LESSOR represents and warrants to LESSEE as of the Effective Date and covenants during the Term that LESSOR has full authority to enter into and execute this Agreement and that there are no liens, judgments, covenants, easements, restrictions or other impediments of title that will adversely affect LESSEE's Use.

19. <u>ASSIGNMENT</u>. Without any approval or consent of the other Party, this Agreement may be sold, assigned or transferred by either Party to (i) any entity in which the Party directly or indirectly holds an equity or similar interest; (ii) any entity which directly or indirectly holds an equity or similar interest; or (iii) any entity directly or indirectly under common control with the Party. LESSEE may assign this Agreement to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the FCC in which the Property is located by reason of a merger, acquisition or other business reorganization without approval or consent of LESSOR. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the other Party, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of either Party shall constitute an assignment hereunder. LESSEE may sublet the Premises in LESSEE's sole discretion.

20. <u>NOTICES</u>. Except for notices permitted via telephone in accordance with Paragraph 13, all notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LESSOR: Kenny Turner and Lorea Turner 3819 Tabor Rd. Barlow, Kentucky 42024 LESSEE: Cellco Partnership d/b/a Verizon Wireless 180 Washington Valley Road Bedminster, New Jersey 07921 Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

21. <u>SUBORDINATION AND NON-DISTURBANCE</u>. If applicable and within fifteen (15) days of the Effective Date, LESSOR shall obtain a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's rights under this Agreement. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will honor all of the terms of the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that the Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

22. <u>DEFAULT</u>. It is a "Default" if (i) either Party fails to comply with this Agreement and does not remedy the failure within thirty (30) days after written notice by the other Party or, if the failure cannot reasonably be remedied in such time, if the failing Party does not commence a remedy within the allotted thirty (30) days and diligently pursue the cure to completion within ninety (90) days after the initial written notice, or (ii) LESSOR fails to comply with this Agreement and the failure substantially interferes with LESSEE's Use, in LESSEE's reasonable discretion, and

LESSOR does not remedy the failure within five (5) days after written notice from LESSEE or, if the failure cannot reasonably be remedied in such time, if LESSOR does not commence a remedy within the allotted five (5) days and diligently pursue the cure to completion within fifteen (15) days after the initial written notice. The cure periods set forth in this Paragraph 22 do not extend the period of time in which either Party has to cure interference pursuant to Paragraph 13 of this Agreement.

23. <u>REMEDIES</u>. In the event of a Default, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Property is located. Further, upon a Default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. If LESSEE undertakes any such performance on LESSOR's behalf and LESSOR does not pay LESSEE the full undisputed amount within thirty (30) days of its receipt of an invoice setting forth the amount due, LESSEE may offset the full undisputed amount due against all fees due and owing to LESSOR under this Agreement until the full undisputed amount is fully reimbursed to LESSEE.

24. ENVIRONMENTAL. LESSEE shall conduct its business in compliance with all applicable laws governing the protection of the environment or employee health and safety ("EH&S Laws"). LESSEE shall indemnify and hold harmless the LESSOR from claims to the extent resulting from LESSEE's violation of any applicable EH&S Laws or to the extent that LESSEE causes a release of any regulated substance to the environment. LESSOR shall indemnify and hold harmless LESSEE from all claims resulting from the violation of any applicable EH&S Laws by LESSOR or its employees, contractors or agents, or a release of any regulated substance to the environment caused by LESSOR, its employees, contractors or agents, except to the extent resulting from the activities of LESSEE. The Parties recognize that LESSEE is only leasing a small portion of LESSOR's property and that LESSEE shall not be responsible for any environmental condition or issue except to the extent resulting from LESSEE's specific activities and responsibilities. In the event that LESSEE encounters any hazardous substances that do not result from its activities, LESSEE may relocate its facilities to avoid such hazardous substances to a mutually agreeable location or, if LESSEE desires to remove at its own cost all or some the hazardous substances or materials (such as soil) containing those hazardous substances, LESSOR agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

25. <u>CASUALTY</u>. If a fire or other casualty damages the Property or the Premises and substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, rent shall abate until LESSEE'S Use is restored. If LESSEE's Use is not restored within forty-five (45) days, LESSEE may terminate this Agreement.

26. <u>CONDEMNATION</u>. If a condemnation of any portion of the Property or Premises substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, LESSEE may terminate this Agreement. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to LESSEE's communications equipment, relocation costs and, specifically excluding loss of LESSEE's leasehold interest, any other damages LESSEE may incur as a result of any such condemnation.

27. <u>APPLICABLE LAWS</u>. During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, EH&S Laws, rules, regulations, ordinances, directives, covenants, easements, consent decrees, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (i) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises. It shall be LESSOR's obligation to comply with all Laws relating to the Property, without regard to specific use (including, without limitation, modifications required to enable LESSEE to obtain all necessary building permits).

28. <u>TAXES</u>.

(a). LESSOR shall invoice and LESSEE shall pay any applicable transaction tax (including sales, use, gross receipts, or excise tax) imposed on the LESSEE and required to be collected by the LESSOR based on any service, rental space, or equipment provided by the LESSOR to the LESSEE. LESSEE shall pay all personal property taxes, fees, assessments, or other taxes and charges imposed by any Government Entity that are imposed on the LESSEE and required to be paid by the LESSEE that are directly attributable to the LESSEE's equipment or LESSEE's use and occupancy of the Premises. Payment shall be made by LESSEE within sixty (60) days after presentation of a receipted bill and/or assessment notice which is the basis for such taxes or charges. LESSOR shall pay all ad valorem, personal property, real estate, sales and use taxes, fees, assessments or other taxes or charges that are attributable to LESSOR's Property or any portion thereof imposed by any Government Entity.

(b). LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by the LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

29. <u>ACCESS TO TOWER</u>. LESSOR agrees the LESSEE shall have free access to the Tower at all times for the purpose of installing and maintaining the said equipment. LESSOR shall furnish LESSEE with necessary means of access for the purpose of ingress and egress to this site and Tower location. It is agreed, however, that only authorized engineers, employees or properly authorized contractors of LESSEE or persons under their direct supervision will be permitted to enter said premises.

30. <u>NON-DISCLOSURE</u>. The Parties agree this Agreement and any information exchanged between the Parties regarding the Agreement are confidential. The Parties agree not to provide

copies of this Agreement or any other confidential information to any third party without the prior written consent of the other or as required by law. If a disclosure is required by law, prior to disclosure, the Party shall notify the other Party and cooperate to take lawful steps to resist, narrow, or eliminate the need for that disclosure.

31. <u>MOST FAVORED LESSEE</u>. LESSOR represents and warrants that the rent, benefits and terms and conditions granted to LESSEE by LESSOR hereunder are now and shall be, during the Term, no less favorable than the rent, benefits and terms and conditions for substantially the same or similar tenancies or licenses granted by LESSOR to other parties. If at any time during the Term LESSOR shall offer more favorable rent, benefits or terms and conditions for substantially the same or similar tenancies or licenses as those granted hereunder, then LESSOR shall, within thirty (30) days after the effective date of such offering, notify LESSEE of such fact and offer LESSEE the more favorable offering. If LESSEE chooses, the parties shall then enter into an amendment that shall be effective retroactively to the effective date of the more favorable offering, and shall provide the same rent, benefits or terms and conditions to LESSEE. LESSEE shall have the right to decline to accept the offering. LESSOR's compliance with this requirement shall be subject, at LESSEE's option, to independent verification.

MISCELLANEOUS. This Agreement contains all agreements, promises and understandings 32. between the LESSOR and the LESSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either the LESSOR or the LESSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights hereunder shall not waive such rights and such party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed, interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice of law rules. Except as expressly set forth in this Agreement, nothing in this Agreement shall grant, suggest or imply any authority for one Party to use the name, trademarks, service marks or trade names of the other for any purpose whatsoever. LESSOR agrees to execute a Memorandum of this Agreement, which LESSEE may record with the appropriate recording officer. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement.

[Signature page follows. The remainder of this page is intentionally blank.]

10

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

omme B.C.

WITNESS

Kenny Turner

Turner LMAN

Lorea Turner

Date: 08-13-2019

WITNESS Digon

LESSEE:

CELLCO_BARTNERSHIP d/b/a Verizon Wireless By: Ed Maher Its: Director - Network Field Engineering X Date:

EXHIBIT "A"

DESCRIPTION OF PROPERTY

A tract of land lying on the South side of Tabor Road, and the East of Wayside Inn Road consisting of 35.27 acres and being designated as Tract 3 on a plat of wavier survey of the Mark Knight, et al, property as recorded in Plat Cabinet 2, Slide 35, in Ballard County Clerk's Office.

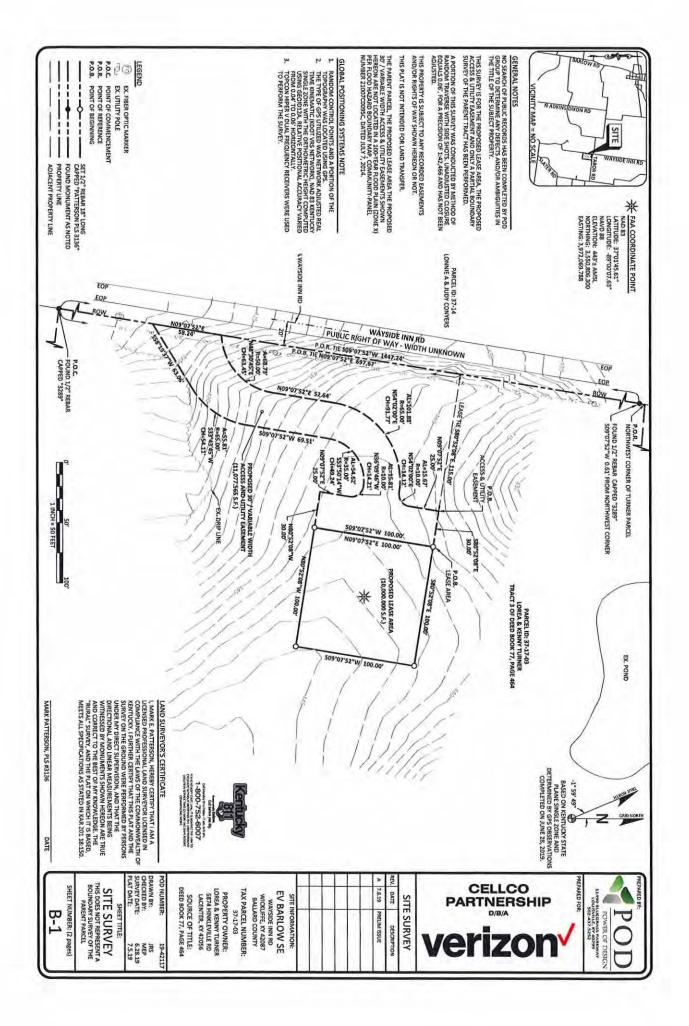
Being the same property acquired by KENNY TURNER and LOREA TURNER, her husband, by Deed dated November 9, 2005, of record in Deed Book 77, Page 464, and by Affidavit of Descent of record in Cabinet 1, Drawer 20 Slide 42768, both in the Office of the Clerk of Ballard County, Kenlucky.

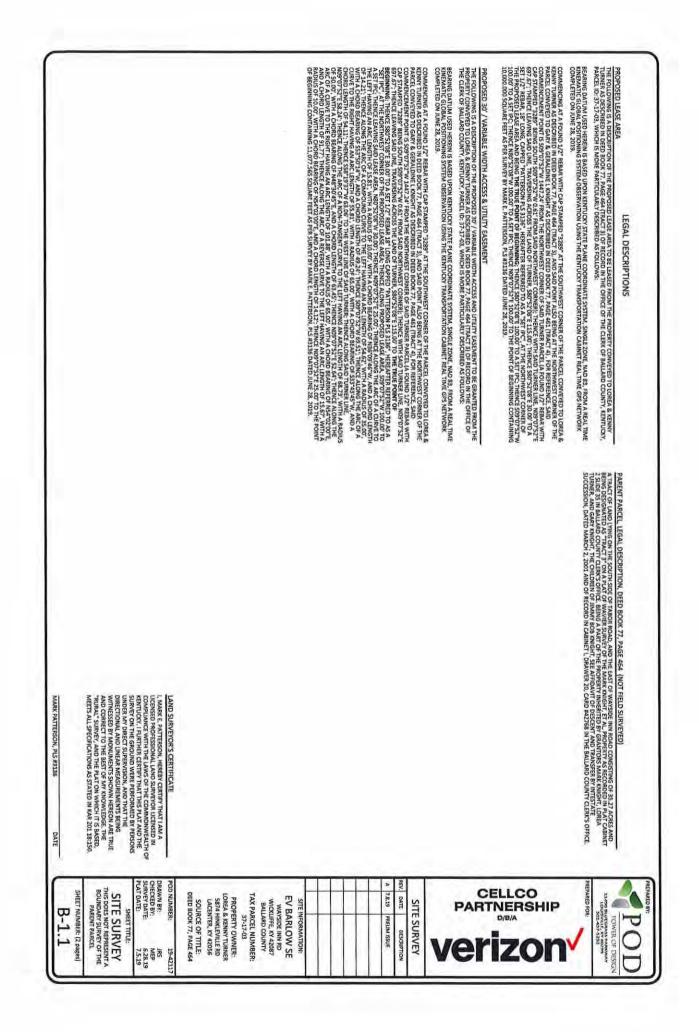
EXHIBIT "B"

SITE PLAN OF THE PREMISES AND DESCRIPTION OF TOWER EQUIPMENT

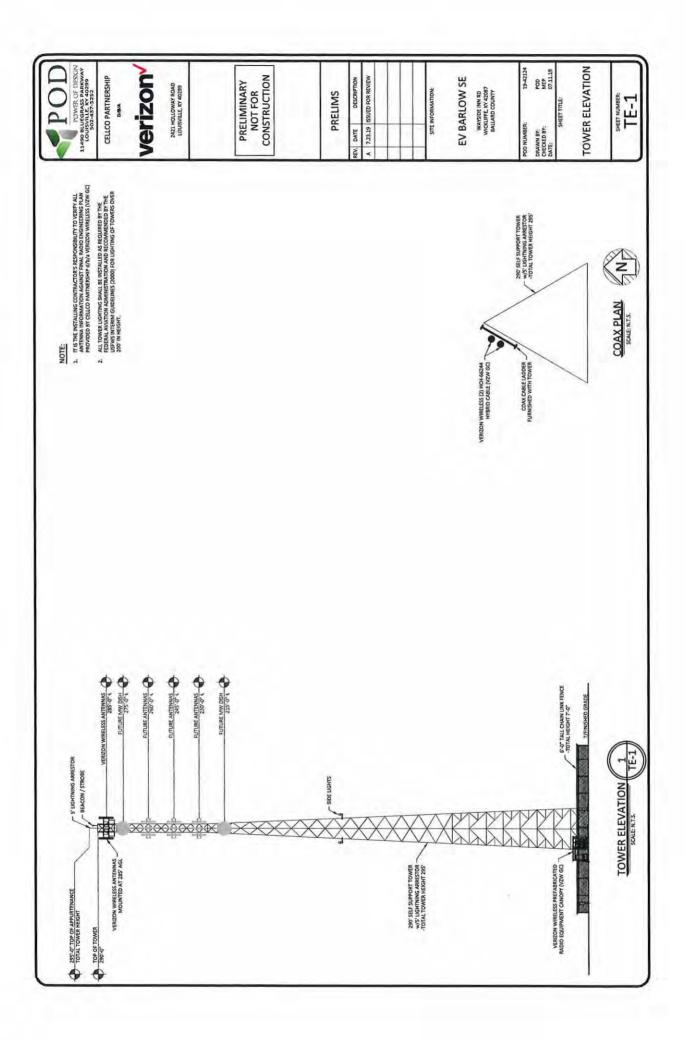
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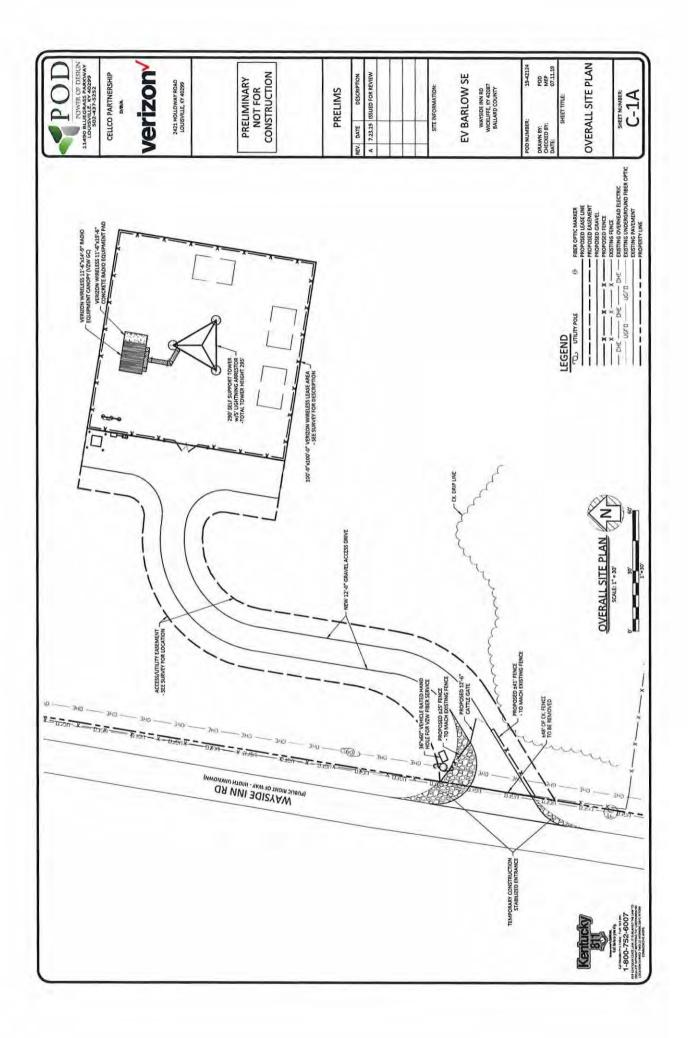
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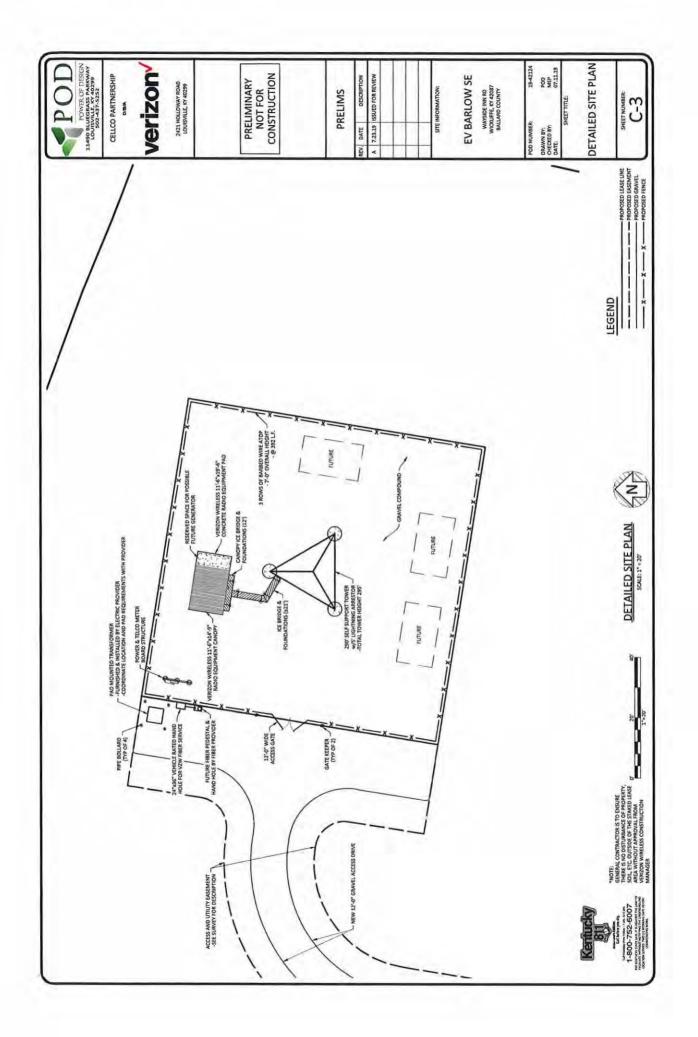


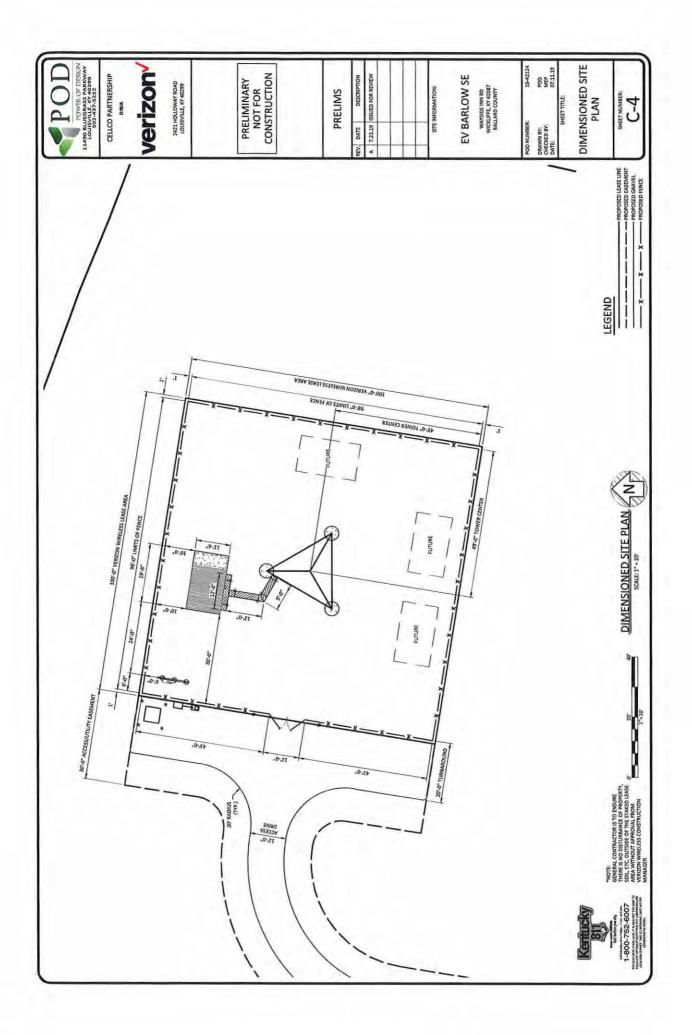


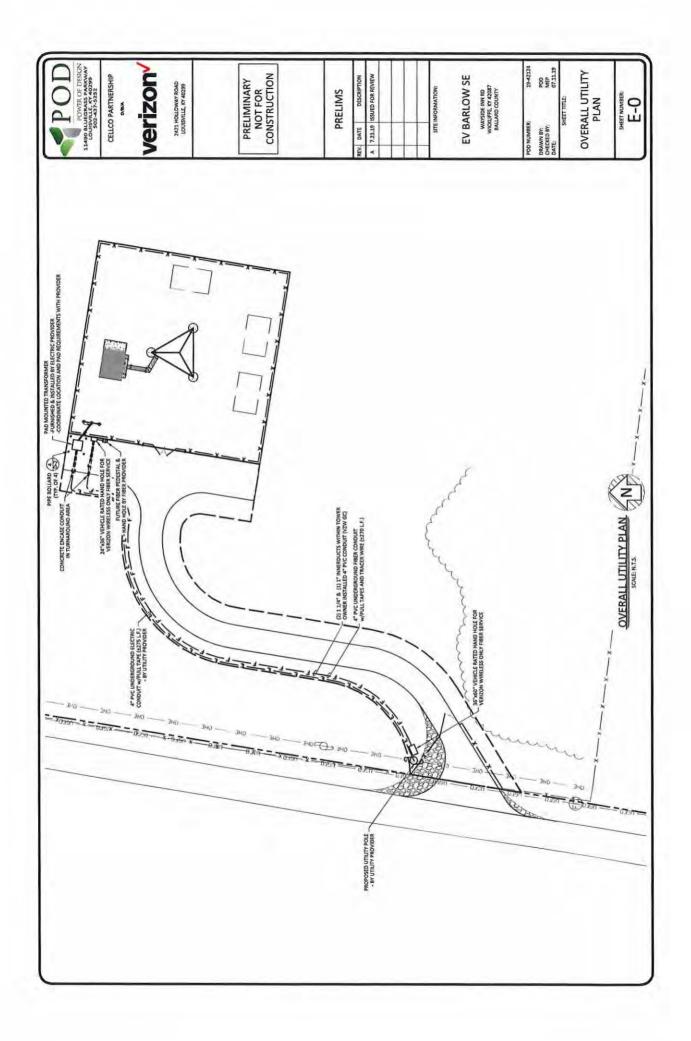
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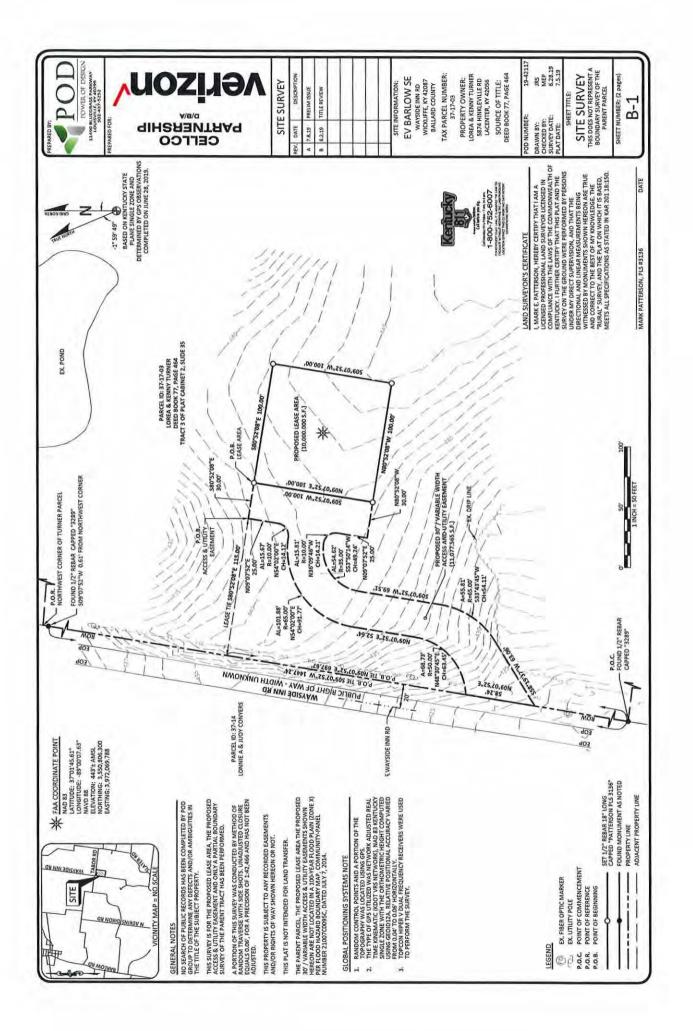


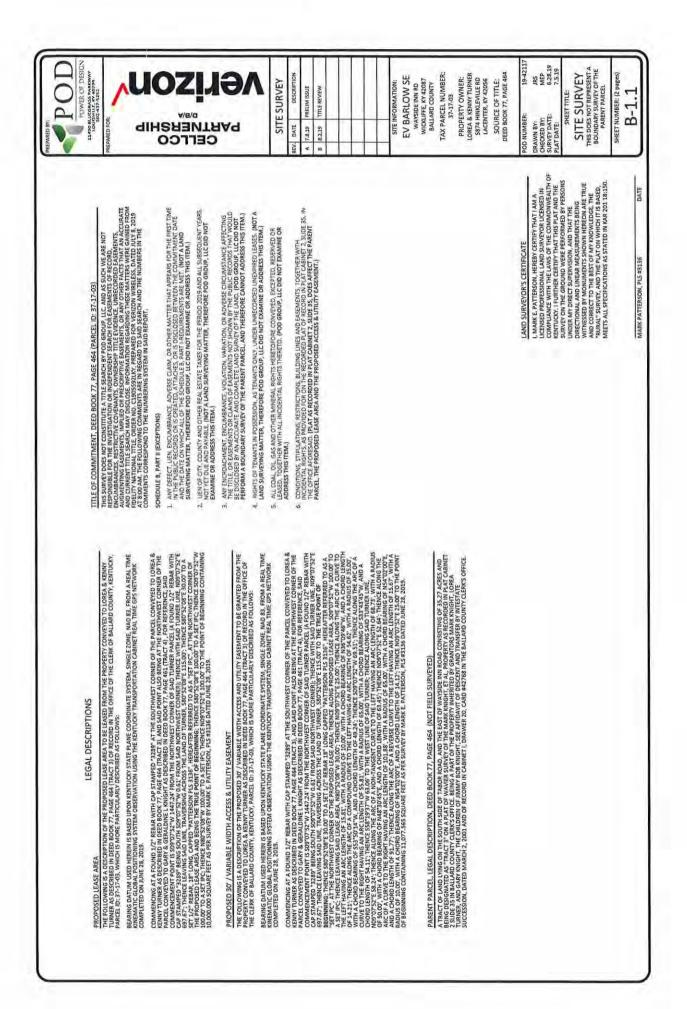




SURVEY

EXHIBIT "C"





Notification List

PARCEL ID: 37-17-03 TURNER LOREA & KENNY 3819 TABOR ROAD BARLOW KY 42024

PARCEL ID: 37-17-02 KNIGHT SAMANTHA JO 4871 HINKLEVILLE ROAD LA CENTER KY 42056

PARCEL ID: 37-17-04 KNIGHT GARY & GERALDINE L 1474 WAYSIDE INN ROAD BARLOW, KY 42024

PARCEL ID: 37-14 CONYERS LONNIE A EST OR JUDY 3193 TABOR ROAD WICKLIFFE KENTUCKY 42087

PARCEL ID: 37-14-01 CONYERS GINA RENEE 1575 WAYSIDE INN ROAD BARLOW KY 42024

PARCEL ID: 37-17-01 ABERNATHY LYNN S 3781 TABOR ROAD BARLOW KY 42024

PARCEL ID: 37-17 TURNER KENNY & LOREA 3819 TABOR ROAD BARLOW KY 42024

PARCEL ID: 37-07 PURCELL JUDITH ROBERT NEAL 572 CEREDO ROAD BARLOW KY 42024



Russell L. Brown Attorney at Law rbrown@clarkquinnlaw.com 320 N. Meridian St., Ste. 1100 Indianapolis, IN 46204 (317) 637-1321 main (317) 687-2344 fax

November 18, 2022

Notice of Proposed Construction of Wireless Communications Facility Site Name: Barlow SE

Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Wayside Inn Road, Wickliffe, KY 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 295 feet with related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely, Russell L. Brown

Attorney for Applicant RLB/mnw Enclosure



www.clarkquinnlaw.com

Russell L. Brown Attorney at Law rbrown@clarkquinnlaw.com 320 N. Meridian St., Ste. 1100 Indianapolis, IN 46204 (317) 637-1321 main (317) 687-2344 fax

November 18, 2022

VIA CERTIFIED MAIL 7021 2720 0001 4430 7143

Hon. Todd Cooper 437 Ohio Street Wickliffe, KY 402087

> RE: Notice of Proposal to Construct Wireless Communications Facility Kentucky Public Service Commission Docket No. 2022- 00385 Site Name: Barlow SE

Dear Judge Cooper:

Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Wayside Inn Road, Wickliffe, KY, 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 295 feet with related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely

Russel L. Brown Attorney for Applicants RLB/mnw Enclosure

SITE NAME: Barlow SE NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

Cellco Partnership, d/b/a Verizon Wireless propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in your correspondence.



www.clarkquinnlaw.com

Elizabeth Bentz Williams AICP ebw@clarkquinnlaw.com 320 N. Meridian St., Ste. 1100 Indianapolis, IN 46204 (317) 637-1321 main (317) 687-2344 fax

November 18, 2022

VIA EMAIL: <u>larrah@ky-news.com</u> advanceyeoman@gmail.com

Kentucky Publishing Inc. 1540 McCracken Blvd. Paducah, KY 42001

> RE: Legal Notice Advertisement Site Name: Barlow SE

Dear Ms. Workman:

Please publish the following legal notice advertisement in the next available edition of the *Advance Yeoman:*

NOTICE

Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Wayside Inn Road, Wickliffe, KY, 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to ebw@clarkquinnlaw.com. Please call me or Elizabeth Bentz Williams, in our offices at (317) 637-1321 if you have any questions. Thank you for your assistance.

Sincerely,

Highth Baty Williams

Elizabeth Bentz Williams Clark, Quinn, Moses, Scott & Grahn, LLC

Design Search Area





Tuesday, December 10, 2019

RE: Proposed Verizon Wireless Communications Facility
Site Name: EV Barlow SE.
Type of Tower: 290' self-support Tower.
Location: WAYSIDE INN RD, WICKLIFFE, KY 42087.

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called **EV Barlow SE.**

The EV Barlow SE site is proposed with the below objectives:

- 1. Offload 4G traffic from busy site.
- 2. Improve 4G throughput to existing heavy data users.
- 3. Improve 4G network reliability by increasing the amount of time our customers operate on 4G instead of 3G.

Currently the area is experiencing high demand for wireless high-speed data. Growth forecasts have triggered the need for an additional site in the area. The tower is needed to provide all Verizon customers in the area with the best experience on their 4G wireless devices.

Raw Land – Design plans for a new tower would provide tower height of **290'**. The new structure height was decided upon to best cover the offload area and interact with the existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. In addition, building a structure that is too short can cause existing taller sites to shoot over the proposed site and building a site that is too tall can cause the proposed site to shoot over existing sites. Both situations create a poor experience from a user perspective. The new structure will be placed near the center of the area with high traffic demand and offload the surrounding sites greatly. The new tower design meets stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. It can be noticed from any map that Verizon Wireless is currently collocated on many existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed **EV Barlow SE** site.



Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network; which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted communications throughout the coverage area.

Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources and raise a system capacity overload concern.

This cell site has been designed, and shall be constructed and operated in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

Sincerely,

Michael Fahim.

RF Engineer, Verizon Wireless

Michael



STATE OF INDIANA

COUNTY OF Marin

Subscribed and sworn to before me this

10th day of December 2019.

Notary Public

Signature

Printed av County of Residence

My Commission expires:

JENNIFER BEHN Notary Public, State of Indiana SEAL My Commission Expires 9/3/2023



Tuesday, December 10, 2019

RE: Ballard County Zoning Plots

Site Name: EV Barlow SE.

To Whom It May Concern:

This map is not a guarantee of coverage and may contain areas with no service. This map reflects a depiction of predicted and approximate wireless coverage of the network and is intended to provide a relative comparison of coverage. The depictions of coverage do not guarantee service availability as there are many factors that can influence coverage and service availability. These factors vary from location to location and change over time. The coverage areas may include locations with limited or no coverage. Even within a coverage area shown, there are many factors, including but not limited to, usage volumes, service, outage, and customer's equipment, and terrain, proximity to buildings, foliage, and weather that may impact service.

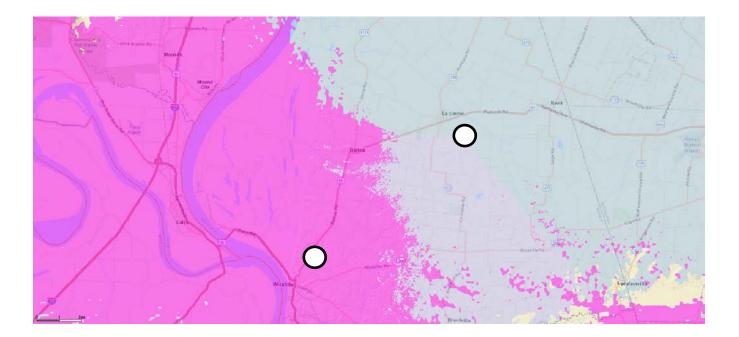
The proposed site is needed to offload capacity from existing sites. This map reflects the predicted coverage area that will be offloaded from existing sites and transferred to the proposed site.

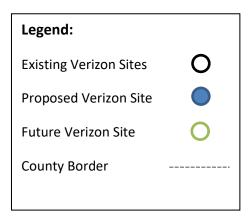
Michael Fahim.

RF Engineer, Verizon Wireless



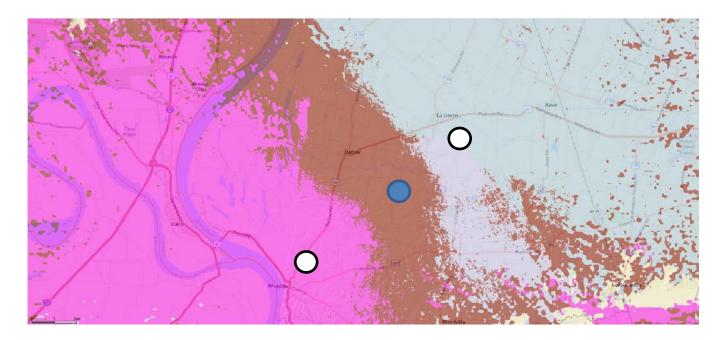
EV Barlow SE Pre







EV Barlow SE Post



Legend:	
Existing Verizon Sites	0
Proposed Verizon Site	\bigcirc
Future Verizon Site	0
County Border	





Exhibit R List and Identity and Qualifications of Professionals

Mark E. Patterson Professional Land Surveyor Kentucky License 3136 Power of Design Group, LLC 11490 Bluegrass Parkway Louisville, KY 40299

Mark E. Patterson Professional Engineer Kentucky License 16300 Power of Design Group, LLC 11490 Bluegrass Parkway Louisville, KY 40299

Robert E. Beacom Professional Engineer Kentucky License 28165 Sabre Industries 7101 Southbridge Dr. P.O. Box 658 Sioux City IA, 51102

Vincent Caprino Construction Manager Verizon Wireless 2421 Holloway Road Louisville, KY 40299

Mihael Fahim RF Engineer Verizon Wireless 2421 Holloway Road Louisville, KY 40299



www.clarkquinnlaw.com

Russell L. Brown Attorney at Law rbrown@clarkquinnlaw.com 320 N. Meridian St., Ste. 1100 Indianapolis, IN 46204 (317) 637-1321 main (317) 687-2344 fax

November 18, 2022

Notice of Proposed Construction of Wireless Communications Facility Site Name: Barlow SE

Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Wayside Inn Road, Wickliffe, KY 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 295 feet with related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely, Russell L. Brown

Attorney for Applicant RLB/mnw Enclosure

Clark Quinn, Moses, Scott & Grahn, LLP





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ABERNATHY LYNN S 3781 TABOR ROAD BARLOW KY 42024







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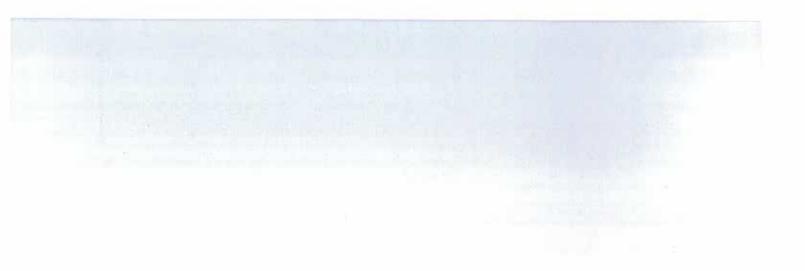




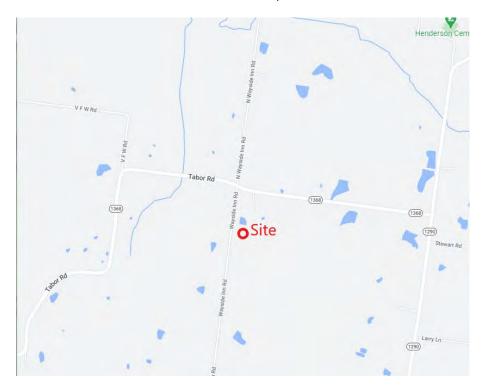
FIRST-CLASS

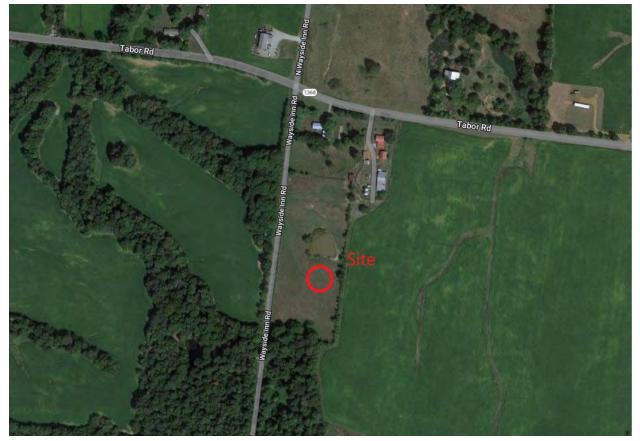
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Location Map





Notification List

PARCEL ID: 37-17-03 TURNER LOREA & KENNY 3819 TABOR ROAD BARLOW KY 42024

PARCEL ID: 37-17-02 KNIGHT SAMANTHA JO 4871 HINKLEVILLE ROAD LA CENTER KY 42056

PARCEL ID: 37-17-04 KNIGHT GARY & GERALDINE L 1474 WAYSIDE INN ROAD BARLOW, KY 42024

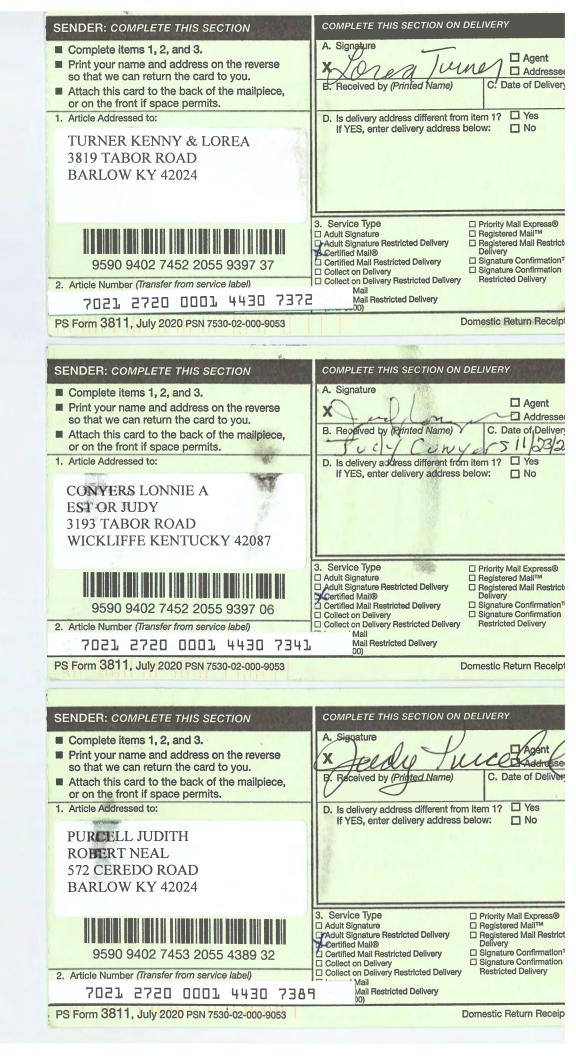
PARCEL ID: 37-14 CONYERS LONNIE A EST OR JUDY 3193 TABOR ROAD WICKLIFFE KENTUCKY 42087

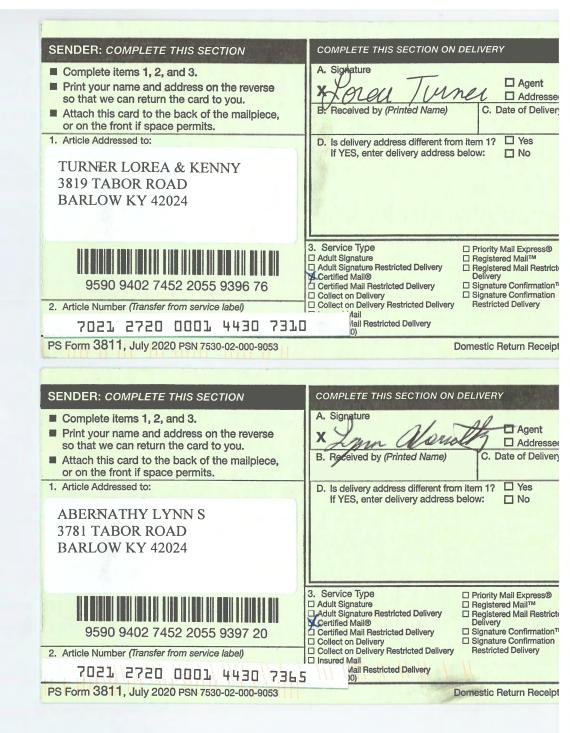
PARCEL ID: 37-14-01 CONYERS GINA RENEE 1575 WAYSIDE INN ROAD BARLOW KY 42024

PARCEL ID: 37-17-01 ABERNATHY LYNN S 3781 TABOR ROAD BARLOW KY 42024

PARCEL ID: 37-17 TURNER KENNY & LOREA 3819 TABOR ROAD BARLOW KY 42024

PARCEL ID: 37-07 PURCELL JUDITH ROBERT NEAL 572 CEREDO ROAD BARLOW KY 42024







SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	A. Signature X Ching Cumstron Addressee B. Received by (Printed Name) C. Date of Deliver C. Date of Deliver C. Date of Deliver C. Date of Deliver	
1. Article Addressed to: KNIGHT SAMANTHA JO 4871 HINKLEVILLE ROAD LA CENTER KY 42056	D. Is delivery address different from term 1? ☐ Yes If YES, enter delivery address below: ☐ No	
9590 9402 7452 2055 9396 83 2. Article Number (Transfer from service label) 7021, 2720 0001, 4430 7327	3. Service Type □ Priority Mail Express® □ Adult Signature □ Registered Mail™ □ Adult Signature Restricted Delivery □ Registered Mail™ □ Certified Mail® □ Beivery □ Certified Mail Restricted Delivery □ Signature Confirmation™ □ Collect on Delivery □ Signature Confirmation™ □ Collect on Delivery □ Signature Confirmation™ □ Adult Signature □ Registered Mail Restricted Delivery □ Collect on Delivery □ Signature Confirmation™ □ Adult Restricted Delivery □ Signature Confirmation™ □ Adult Restricted Delivery □ Signature Confirmation™	
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