COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

RECEIVED

FEB 2 3 2018 PUBLIC SERVICE

COMMISSION

THE APPLICATION OF NEW CINGULAR WIRELESS PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY, D/B/A AT&T MOBILITY FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A WIRELESS COMMUNICATIONS FACILITY IN THE COMMONWEALTH OF KENTUCKY IN THE COUNTY OF HARLAN

) CASE NO.: 2018-00078

SITE NAME: LEJUNIOR

* * * * * * *

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

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility ("Applicant"), 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 submits this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Applicant with wireless communications services.

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

1. The complete name and address of the Applicant: New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility, having a local address of Meidinger Tower, 462 S. 4th Street, Suite 2400, Louisville, KY 40202.

2. Applicant proposes 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.

3. The Certificate of Authority filed with the Kentucky Secretary of State for the Applicant entity was attached to a prior application and is part of the case record for PSC case number 2011-00473 and is hereby incorporated by reference.

4. The Applicant 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 A**, 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 Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in the Applicant's communications network that is designed to meet the increasing demands

for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Applicant proposes to construct a WCF at 340 Turner Hill Road, Totz, Kentucky (36°55'08.07" North latitude, 83°10'16.40" West longitude), 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 William Robert & Anita Michelle Caldwell pursuant to a Deed recorded at Deed Book 386, Page 390 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with a 15-foot lightning arrestor attached at the top, for a total height not to exceed 270-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.

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 B.

9. 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 C**.

10. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

11. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.

12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Approval to construct the tower is attached as **Exhibit F**

13. A geotechnical engineering firm has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this

exhibit.

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

15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit I**.

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 C** 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 Don Murdock and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.

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

19. **Exhibit B** 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 B.

20. Applicant has notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. 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 has been 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 sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.

21. Applicant has 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 L**.

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 M**. 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 part of Exhibit M.

23. The general area where the proposed facility is to be located is rural.

24. The process that was used by the Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to 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 Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the 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 N**.

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. In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service in the subject area. As a participant in the FCC's Connect America Fund Phase II (CAF II) program, AT&T is aggressively deploying WLL service infrastructure to bring expanded internet access to residential and business customers in rural and other underserved

areas. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies. Broadband service via WLL will be delivered from the tower to a dedicated antenna located at the home or business receiving service and will support downloads at 10 Mbps and uploads at 1 Mbps.

26. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

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

to:

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

Respectfully submitted,

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David A. Pike Pike Legal Group, PLLC 1578 Highway 44 East, Suite 6 P. O. Box 369 Shepherdsville, KY 40165-0369 Telephone: (502) 955-4400 Telefax: (502) 543-4410 Email: dpike@pikelegal.com Attorney for New Cingular Wireless PCS, LLC d/b/a AT&T Mobility

LIST OF EXHIBITS

- A FCC License Documentation
- B Site Development Plan:

500' Vicinity Map Legal Descriptions Flood Plain Certification Site Plan Vertical Tower Profile

- C Tower and Foundation Design
- D Competing Utilities, Corporations, or Persons List
- E FAA
- F Kentucky Airport Zoning Commission
- G Geotechnical Report
- H Directions to WCF Site
- I Copy of Real Estate Agreement
- J Notification Listing
- K Copy of Property Owner Notification
- L Copy of County Judge/Executive Notice
- M Copy of Posted Notices and Newspaper Notice Advertisement
- N Copy of Radio Frequency Design Search Area

EXHIBIT A FCC LICENSE DOCUMENTATION

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

COMMUNCT COMUNCT COMMUNCT CO	W	ireless	Telecon	nication nmunica N AUTH	tions	Bur	eau	n				
LICENSEE: NEW ATTN: LESLIE WI NEW CINGULAR	LSON		S PCS, L	LC			Call KNKI	Radio	Service	Number		
208 S AKARD ST., RM 1016 DALLAS, TX 75202 FCC Registration Number (FRN): 0003291192							CM	t Numer A453 Sub-Marke				
Market Name Kentucky 11 - Clay	oer (FKN): 00	0329119										
Grant Date 08-30-2011	Effective 06-13-2		Expiration Date Five Yr Be 10-01-2021			Yr Build	-Out Date	Prin	Print Date			
Site Information: Location Latitude 4 36-44-50.6 N Address: 969 CELL TOW City: WILLIAMSBURG	Longitu 084-08- VER ROAD (7 County: Wi	43.6 W 6426)	(m	round Elev eters) 9.7 KY Cons	R	(me 62.2	acture Hg ters) 2 eadline:	1	Antenna St Registratio 043812			
Antenna: 1 Azimuth (fror Antenna Height AAT (m Transmitting ERP (watt: Antenna: 2 Azimuth (fror	eters) s)	0 164.200 80.790 0	45 142.000 33.632 45	90 198.300 2.346 90	135 134.2 0.254 135		180 151.500 0.164 180	225 124.900 0.164 225	270 186.500 5.156 270	315184.50040.160315		
Antenna Height AAT (m Transmitting ERP (watt		164.200 1.159	142.000 16.802	198.300 80.666	134.2 104.7		151.500 22.590	124.900 1.407	186.500 0.209	184.500 0.204		
Antenna Height AAT (meters) 164.200 142.000 198			90 198.300 0.095	135 134.2 1.187		180 151.500 9.994	225 124.900 34.712	270 186.500 26.126	315 184.500 3.238			
Conditions: Pursuant to §309(h) of the	communicati	ons Act o	of 1934, as	amended,	47 U.S	.C. §	309(h), thi	is license is	subject to t	he		

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

Call Sign: KNKN673	File	Number:			P	rint Date:		
LocationLatitudeLongin736-38-29.0 N083-40Address:2 MILES NORTHWEST OFCity:MiddlesboroCounty: BELL	5-24.9 W	(m 91 WN 19 MI	round Elev neters) 7.4 L (76435) truction D	(m 64	ructure Hgt leters) .9		Antenna St Registratio 1056643	
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north)	514.300 41.864 0	45 514.900 12.118 45	90 478.800 1.035 90	135 557.800 0.164 135	180 452.400 0.104 180	225 334.800 0.102 225	270 345.400 0.886 270	315 421.600 11.503 315
Antenna Height AAT (meters) Transmitting ERP (watts)	514.300 0.286	514.900 0.947	478.800 0.706	557.800 0.874	452.400 0.879	334.800 0.224	345.400 0.101	421.600 0.109
LocationLatitudeLongi1236-58-46.0 N083-0Address:21834 HIGHWAY 160 (764City:GORDONCounty:LETCHE	1-30.2 W 32)	(m 73	round Elev neters) 36.8 onstructior			•	Antenna St Registratio 1010610	
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 316.700 112.719	45 319.800 46.762	90 30.000 8.219	135 54.700 1.163	180 30.000 0.285	225 198.900 0.298	270 238.900 5.383	315 287.300 44.574
Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 316.700 0.636	45 319.800 12.989	90 30.000 91.274	135 54.700 94.955	180 30.000 26.405	225 198.900 2.175	270 238.900 0.841	315 287.300 0.311
Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 316.700 1.458	45 319.800 0.224	90 30.000 0.588	135 54.700 1.866	180 30.000 27.246	225 198.900 84.787	270 238.900 72.123	315 287.300 11.074
LocationLatitudeLongi1336-40-53.1 N084-00Address:895 WAGON WHEEL ROACity:WILLIAMSBURGCounty: N	8-46.5 W AD (76433	(m 44)	round Elev neters) 46.2 KY Con			t to Tip	Antenna St Registratio	
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 159.200 24.755	45 160.200 89.034	90 107.400 70.279	135 125.700 10.065	180 101.200 1.351	225 58.800 0.211	270 107.500 0.387	315 145.600 1.828
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Call Sign: KNKN673	File	File Number:			Print Date:				
	ngitude 4-08-46.5 W ROAD (76433	(m 44	round Elev neters) 16.2	(n	tructure Hgt neters) 8.8	to Tip	Antenna St Registratio		
City: WILLIAMSBURG Count	y: WHITLEY	State:	KY Cons	struction	Deadline:				
Antenna: 2 Azimuth (from true no	rth) 0	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	159.200	160.200	107.400	125.700		58.800	107.500	145.600	
Transmitting ERP (watts)	0.124	3.716	14.234	28.095	19.823	32.016	11.426	8.167	
Antenna: 3 Azimuth (from true no	rth) 0	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	159.200	160.200	107.400	125.700		58.800	107.500	145.600	
Transmitting ERP (watts)	21.702	2.370	0.815	0.286	0.611	12.974	63.085	92.160	
	ngitude 4-09-27.9 W	(m	round Elev neters) 10.0	(n	tructure Hg neters) 7.8	t to Tip	Antenna St Registratio 1204258		
Address: 4499 HIGHWAY 511 (6			0.0	9	/.8		1204238		
City: Rockholds County: WHIT	12 AT 1	KY Co	onstruction	Deadline	e: 02-23-201	3			
Antenna: 1 Azimuth (from true no	rth) 0	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	144.000	137.900	124.500	157.700	188.600	187.400	152.500	147.000	
Transmitting ERP (watts)	40.926	37.139	5.069	0.465	0.105	0.099	1.028	10.105	
Antenna: 2 Azimuth (from true no	rth) 0	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	144.000	137.900	124.500	157.700	188.600	187.400	152.500	147.000	
Transmitting ERP (watts)	0.176	0.199	0.523	10.033	46.347	45.959	7.311	1.005	
Location Latitude La		C	and Flag	undian C	tructure Hg	to Tin			
Location Latitude Lo	ngitude		ieters)	978 V0280.25-7998	neters)	to rip	Antenna St Registratio		
17 37-09-19.2 N 08	3-26-33.1 W		6.6		8.1		1043811		
Address: 2255 DAVIDSON FORI	K ROAD (764	24)				lin.			
City: THOUSAND STICKS Co	unty: LESLI	E State:	KY Con	struction	Deadline: 0	2-23-2013	3		
Antenna: 1 Azimuth (from true no	rth) 0	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	255.100	250.600	210.300	157.900	145.900	186.400	230.000	208.500	
Transmitting ERP (watts)	183.310	76.153	8.501	2.109	0.426	0.548	8.899	75.006	
Antenna: 2 Azimuth (from true no	rth) 0	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	255.100	250.600	210.300	157.900		186.400		208.500	
Transmitting ERP (watts)	1.243	25.877	136.672	204.174	1000	4.976	1.640	0.627	
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Call Sign: KNKN673	File Numb	er:		Pr	int Date:	Date:		
Address: 2255 DAVIDSON FORK R	5-33.1 W Dad (76424)	Ground Eleva (meters) 516.6 nte: KY Cons	(me 98.1	ucture Hgt eters) l eadline: 02		Antenna St Registration 1043811		
Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)			135 157.900 4.155	180 145.900 54.327	225 186.400 193.511	270 230.000 147.915	315 208.500 23.334	
LocationLatitudeLongitudeGround Elevation (meters)Structure Hgt to Tip (meters)Antenna Structure Registration No.1836-45-42.1 N083-40-29.0 W685.2129.51215974Address:RO7 PO BOX 264E BIRD BRANCH ROAD (76437)12159741215974City:PINEVILLECounty:BELLState:KYConstruction Deadline:02-23-2013								
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	314.900 270.1 91.981 37.20 0 45 314.900 270.1 2.152 13.24	4 3.868 90 00 337.000 11 26.567 90 00 337.000	135 312.300 0.986 135 312.300 29.575 135 312.300 5.378	180 338.800 0.201 180 338.800 18.963 180 338.800 23.634	225 334.000 0.271 225 334.000 5.601 225 334.000 32.748	270 355.300 4.377 270 355.300 3.888 270 355.300 36.478	315 387.000 36.079 315 387.000 1.518 315 387.000 14.971	
LocationLatitudeLongitudeGround Elevation (meters)Structure Hgt to Tip (meters)Antenna Structure Registration No.1936-53-53.5 N083-19-27.0 W858.635.4Address:3017 NORTH US HIGHWAY 421 (76355)35.4City:BAXTERCounty: HARLANState: KYConstruction Deadline: 02-23-2013								
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	423.700 288.9 118.281 51.05	51 5.389 90 270.400	135 273.500 1.305 135 273.500 61.619	180 415.500 0.258 180 415.500 38.611	225 424.000 0.357 225 424.000 11.792	270 260.500 5.945 270 260.500 8 .653	315 381.500 46.435 315 381.500 3.099	

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Call Sign: KNKN673	File Number:		Print Date	e:				
LocationLatitudeLongit1936-53-53.5 N083-19Address:3017 NORTH US HIGHWACity:BAXTERCounty: HARLAN	(m 0-27.0 W 85 Y 421 (76355)	round Elevation leters) 8.6 lstruction Deadlin	Structure Hgt to Tip (meters) 35.4 ne: 02-23-2013	Antenna Structure Registration No.				
Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)		90 135 270.400 273.5 0.451 2.060	180 225 00 415.500 424.000	270 315 260.500 381.500 80.742 11.222				
LocationLatitudeLongitudeGround Elevation (meters)Structure Hgt to Tip (meters)Antenna Structure Registration No.2237-09-01.0 N083-41-03.6 W484.094.41267062Address:Bear Creek Rd (87003)City: HectorCounty: CLAYState: KYConstruction Deadline: 02-23-2013								
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	247.900220.000153.77065.269045247.900220.0001.55422.565	90 135 188.600 160.5 4.896 0.487 90 135 188.600 160.5 112.704 140.2 90 135 188.600 160.5 0.295 4.424	0.313 0.307 180 225 00 206.100 259.700 30.708 1.874 180 225 00 206.100 259.700 200 206.100 259.700	9.959 76.610 270 315 247.500 246.500 0.302 0.278 270 315 247.500 246.500 0.278 270 215 247.500				
LocationLatitudeLongitudeGround Elevation (meters)Structure Hgt to Tip (meters)Antenna Structure Registration No.2337-08-58.7 N083-45-07.4 W452.696.01043808Address:LUCAS ROAD ON TOP OF HILL (76428)Construction Deadline;1043808								
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	212.800191.000111.73645.822	90 135 150.800 181.4 5.058 1.185 90 135 150.800 181.4 68.789 97.23	0.248 0.336 180 225 00 199.900 198.200	5.44144.976270315				

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Call Sign: KNKN673	File N	umber:			Pr	nt Date:		
LocationLatitudeLongi2337-08-58.7 N083-4Address:LUCAS ROAD ON TOP OF	5-07.4 W	(m 45	ound Eleva eters) 2.6	(n	tructure Hgt neters) 6.0	to Tip	Antenna Str Registration 1043808	
City: MANCHESTER County: CL			Constructio	n Deadlii	ne:			
Antenna: 3 Azimuth (from true north)	0 4	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	100	91.000 3.181	150.800 3.850	181.400 5.507	199.900 16.941	198.200 16.885	202.800 21.020	202.900 12.170
Location Latitude Longi	tude		ound Eleva eters)		tructure Hgt neters)	to Tip	Antenna Str Registration	
Address: 3700 WATTS CREEK TOW	4-54.2 W VER ROAD (HARLAN	(76431)	5.2 XY Const		0.5 Deadline:		1007945	
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	ENV V	283.300	392.600	363.200		470.900		332.900
Transmitting ERP (watts)	116.142 4	- Vertility	4.986	1.287	0.267	0.341	5.779	46.632
Antenna: 2 Azimuth (from true north)	0 .	45	90	135	180	225	270	315
Antenna Height AAT (meters)	357.800 2	283.300	392.600	363.200	337.000	470.900	325.200	332.900
Transmitting ERP (watts)	1.626 1	6.756	46.777	60.050	27.346	5.464	2.977	1.029
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	357.800 2	283.300	392.600	363.200	337.000	470.900	325.200	332.900
Transmitting ERP (watts)	1.479 0	0.233	0.427	2.031	27.025	95.886	77.822	11.442
Location Latitude Long 25 36-36-37.5 N 083-4	tude 2-49.1 W	(m	ound Eleve eters) 6.5	(n	tructure Hgt neters) 0.3	to Tip	Antenna St Registration 1232693	
Address: 131 AMESBURY STREET City: MIDDLESBORO County: B	(76438)		Constructio					
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)		30.000	30.000	30.000	30.000	30.000	30.000	30.000
Transmitting ERP (watts)		41.420	3.508	0.571	0.313	0.301	3.015	39.614
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)		30.000	30.000	30.000	30.000	30.000	30.000	30.000
Transmitting ERP (watts)		3.991	32.278	53.652	8.875	0.818	0.150	0.111
							Star .	



Call Sign: KNKN673	File	Number:		Print Date:				
Location Latitude Longit 25 36-36-37.5 N 083-42	ude 2-49.1 W	(m	round Elev leters) 16.5		Structure Hgt (meters) 60.3	t to Tip	Antenna St Registratio 1232693	
Address: 131 AMESBURY STREET City: MIDDLESBORO County: BE	(76438)	te: KY	Constructi	on Dead	iline:			
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	30.000 0.906	30.000 0.242	30.000 0.226	30.000 0.866	30.000 20.330	30.000 108.084	30.000 76.154	30.000 7.898
Location Latitude Longit	ude		round Elev neters)		Structure Hg (meters)	t to Tip	Antenna St Registratio	
Address: RURAL ROUTE 1 BOX 109)-58.1 W 9 (76441) State: K		36.1 truction D	eadline	57.3			
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	218.900 15.060	188.400 36.966	284.100 29,277	201.30 42.643		65.400 12.416	242.700 3.511	257.700 5.735
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	218.900 0.639	188.400 0.133	284.100 0.186	201.30 4.240	00 245.000 28.970	65.400 66.602	242.700 17.897	257.700 2.186
Control Points:			Contraction	2				
Control Pt. No. 1			Per set	V				
Address: 1650 LYNDON FARMS CC City: LOUISVILLE County: St	OURT ate: KY	Telepho	one Numbe	r: (502)	329-4700			

Waivers/Conditions:

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

WE MAKE NO FINDING IN THESE CASES THE ISSUES RAISED IN FOOTNOTE 3 OF LA STAR CELLULAR TELEPHONE COMPANY, 7 FF Rcd 3762 (1992). THEREFORE, THESE GRANTS OF TRANSFERS/ASSIGNMENTS ARE CONDITIONED ON ANY SUBSEQUENT ACTION THE COMMISSION MAY TAKE CONCERING THE

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).



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	Federal Communica Wireless Telecomm		sion			
DUNNS SIGN	RADIO STATION A	UTHORIZATION				
LICENSEE: NEW CINC	GULAR WIRELESS PCS, LLC			<		
ATTN: LESLIE WILSO	V		Call Sign NLF288	File Number		
NEW CINGULAR WIRI 208 S AKARD ST., RM DALLAS, TX 75202	A DE DE CALENDARIA		Radio Service CW - PCS Broadband			
FCC Registration Number (FR	N): 0003291192	•				
Grant Date 06-02-2015	Effective Date 06-13-2017	Expiration Dat 06-23-2025	e	Print Date		
Market Number MTA044	Chann	el Block 3	Sub-Market Designator 0			
	Market Knox					
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Da	te .	4th Build-out Date		
Waivers/Conditions:						

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

Conditions:

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

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	Federal Communics Wireless Telecomm		sion			
COMMISSION	RADIO STATION A	UTHORIZATION				
LICENSEE: NEW CING	GULAR WIRELESS PCS, LLC					
ATTN: LESLIE WILSO	N		Call Sign	File Number		
NEW CINGULAR WIR 208 S AKARD ST., RM DALLAS, TX 75202			Radio Service CW - PCS Broadband			
FCC Registration Number (FR	N): 0003291192					
Grant Date 04-11-2017	Effective Date 06-14-2017	Expiration Dat 04-28-2027	e	Print Date		
Market Number BTA229	Chann	el Block 3	Sub-Market Designator 0			
	Market Kingsport-Johnst					
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Da	te	4th Build-out Date		
Waivers/Conditions:						

Children of the second

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

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Conditions:

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

Call Sign: KNLH550

File Number:

Print Date:

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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

F	ederal Communic Wireless Telecomm		ssion		
COMMISSION	RADIO STATION A	UTHORIZATION	ſ		
LICENSEE: NEW CING	JLAR WIRELESS PCS, LLC				
ATTN: LESLIE WILSON		ŀ	Call Sign KNLH575	File Number	
NEW CINGULAR WIREL 208 S AKARD ST., RM 10 DALLAS, TX 75202			Radio Service CW - PCS Broadband		
C Registration Number (FRN): 0003291192				
Grant Date 04-13-2017	Effective Date 06-14-2017	Expiration Da 04-28-2027	te	Print Date	
Market Number BTA295		el Block E	Sub-Market Designator 0		
	Market Middlesboro				
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Da	ate 4	th Build-out Date	
aivers/Conditions		ASA .			

ivers/Conditions:

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

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Conditions:

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

Call Sign: KNLH575

File Number:

Print Date:

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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H COMMUNICATION IN THE REAL PROPERTY OF THE REAL PR	Federal Communic Wireless Telecomm		ssion			
COMMISSION	RADIO STATION A	UTHORIZATION	I			
LICENSEE: NEW CINC ATTN: LESLIE WILSON NEW CINGULAR WIRE 208 S AKARD ST., RM 1	ELESS PCS, LLC		-	File Number Radio Service S (1710-1755 MHz and		
DALLAS, TX 75202	N): 0003291192			10-2155 MHz)		
Grant Date 11-29-2006	Effective Date 06-14-2017	Expiration Da 11-29-2021	ite	Print Date		
Market Number CMA453	Chan	nel Block A	Su	Sub-Market Designator 0		
	Marke Kentucky	t Name 11 - Clay				
1st Build-out Date	2nd Build-out Date	3rd Build-out Date		4th Build-out Date		
ivers/Conditions:						
onable efforts to coordinate f	upon the licensee, prior to initia requency usage with known co- band whose facilities could be a	channel and adjacent ch	annel incun	nbent federal users		

2006.

Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20,

Conditions:

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

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	Federal Communica Wireless Telecomm		sion			
COMMISSION.	RADIO STATION A	UTHORIZATION				
LICENSEE: NEW CINC	GULAR WIRELESS PCS, LLC					
ATTN: LESLIE WILSO	V		Call Sign QGA852	File Number		
NEW CINGULAR WIRI 208 S AKARD ST., RM DALLAS, TX 75202	And a second		Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)			
FCC Registration Number (FR	N): 0003291192					
Grant Date 11-29-2006	Effective Date 06-14-2017	Expiration Date 11-29-2021		Print Date		
Market Number CMA681	Chann	el Block A	Sub-Market Designator 0			
	Market Virginia					
1st Build-out Date	2nd Build-out Date	3rd Build-out Dat	e 4	th Build-out Date		
Waivers/Conditions:						

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Conditions:

Contraction of the second

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

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	Federal Com Wireless To	munications elecommunication		sion	
COMMISSION	RADIO STA	ATION AUTHOR	RIZATION		
LICENSEE: NEW CIN	GULAR WIRELESS	PCS, LLC			
ATTN: LESLIE WILSO				Call Sign /QGD755	File Number 0007761932
NEW CINGULAR WIR 208 S AKARD ST., RM DALLAS, TX 75202	A CONTRACTOR OF A CONTRACTOR A		ŀ	AW - AW	Radio Service S (1710-1755 MHz and 10-2155 MHz)
FCC Registration Number (FF	N): 0003291192				
Grant Date 12-18-2006	Effective Da 09-05-2017		xpiration Dat 12-18-2021	e	Print Date 09-28-2017
Market Number BEA047		Channel Block C		Su	b-Market Designator 7
	Lex	Market Name ington, KY-TN-VA-V	WV		
1st Build-out Date	2nd Build-out	Date 3rd	Build-out Da	te	4th Build-out Date
Waivers/Conditions:			0		
This authorization is conditioned reasonable efforts to coordinate					

reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Conditions:

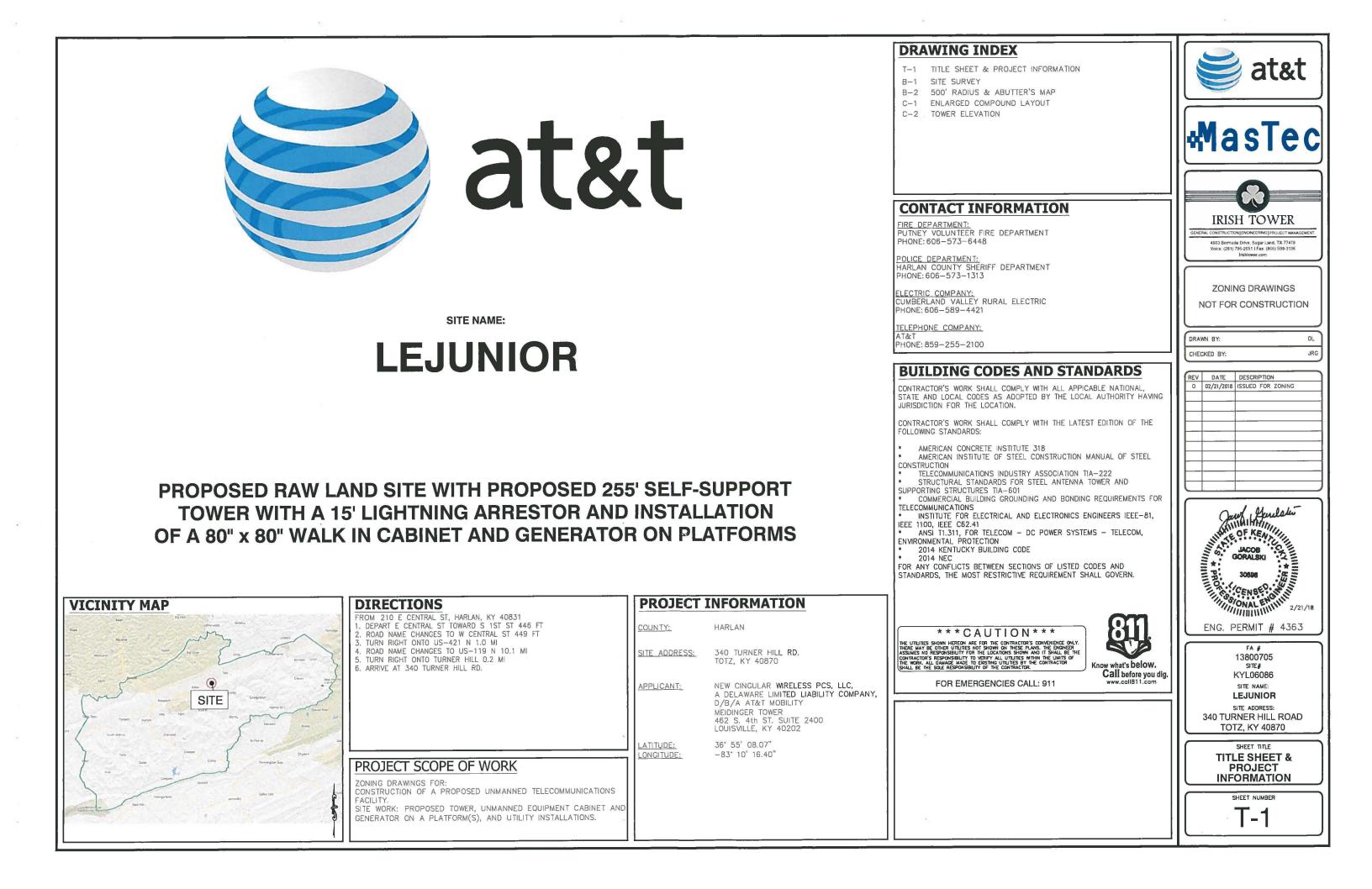
and the second second

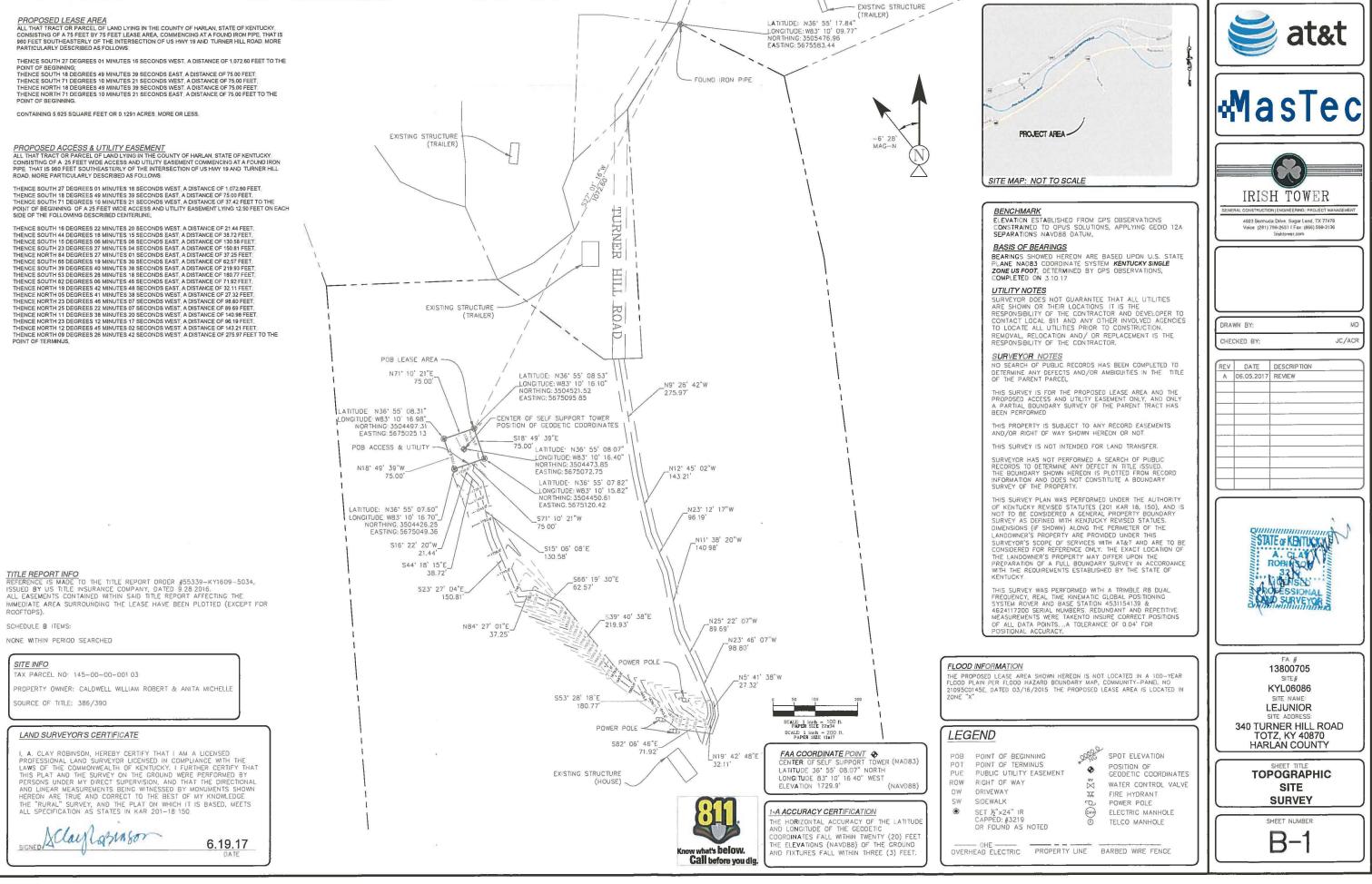
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term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

EXHIBIT B

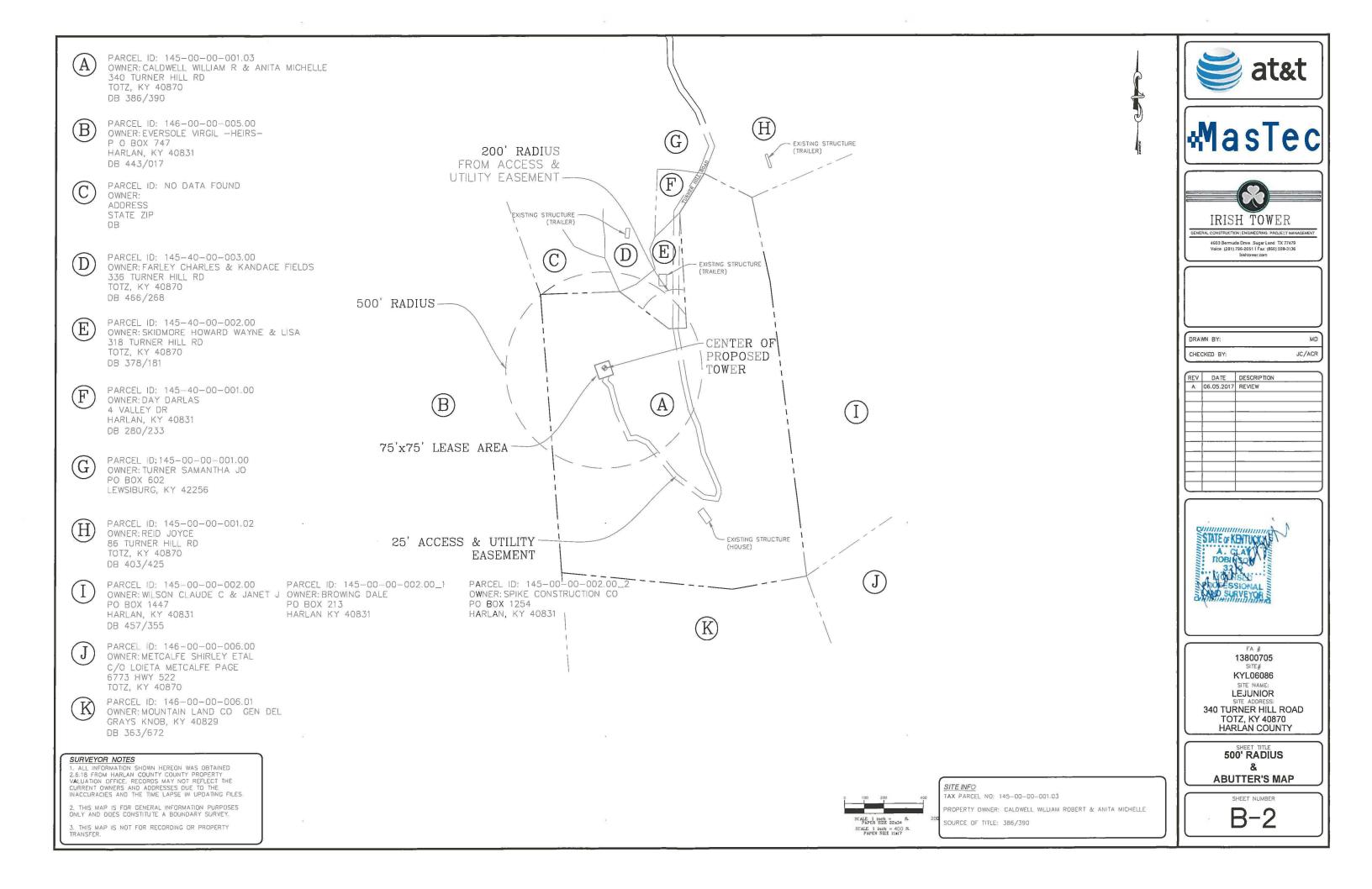
SITE DEVELOPMENT PLAN:

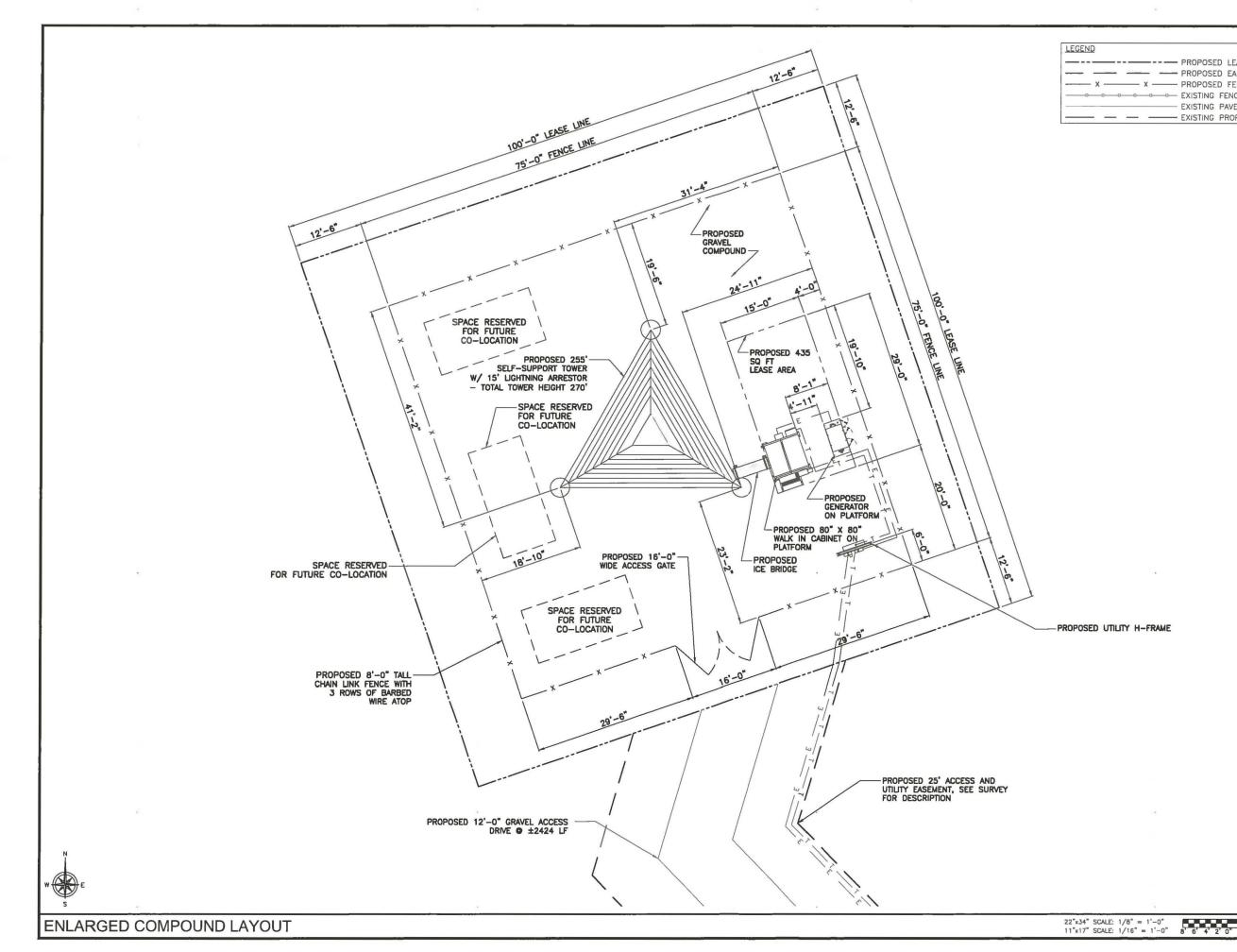
500' VICINITY MAP LEGAL DESCRIPTIONS FLOOD PLAIN CERTIFICATION SITE PLAN VERTICAL TOWER PROFILE



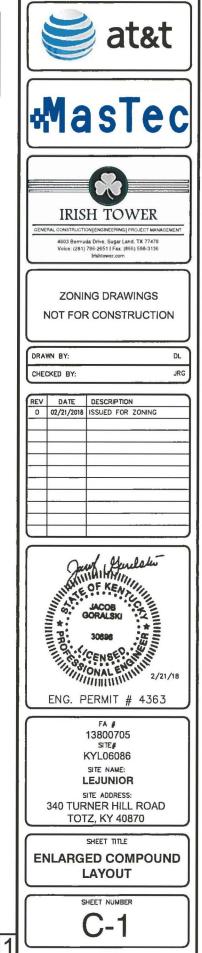


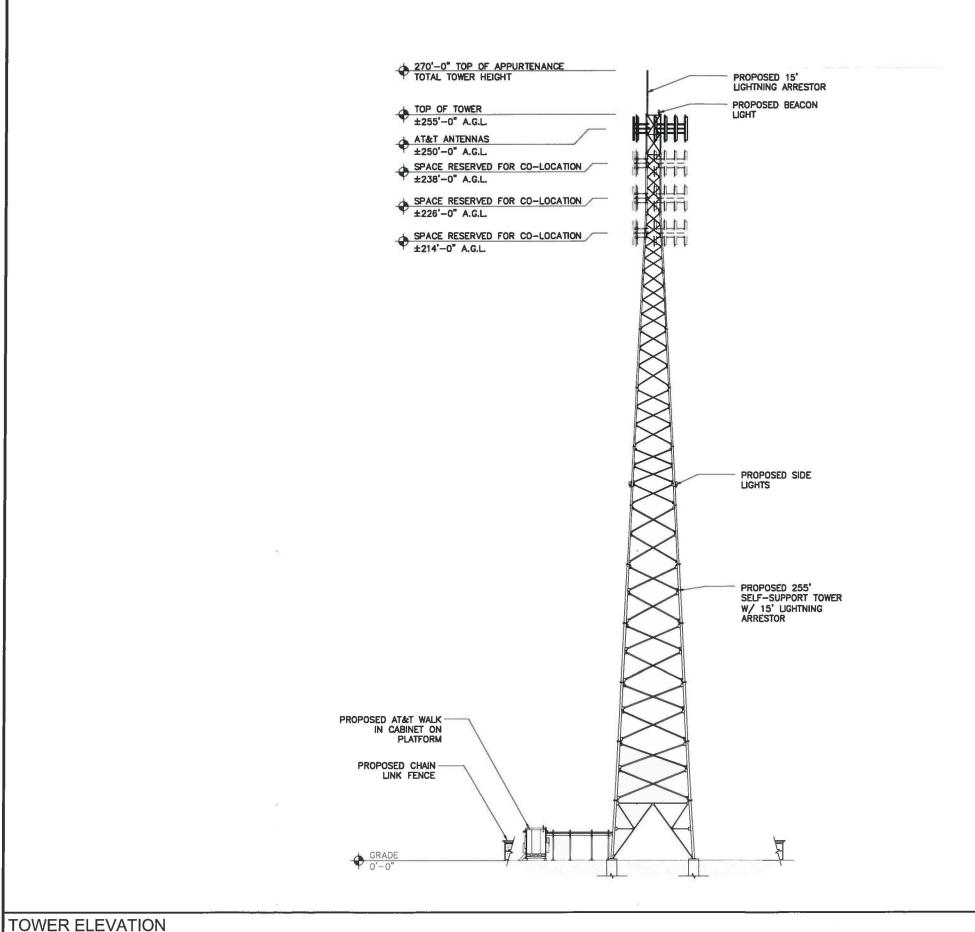
	10. N	
IGNED ACLA	uplasmoon	6.1
	V	





		DBODOSS	D LEASE LINE
		PROPOSE	D EASEMENT
	x ——	PROPOSE	D FENCE
0-0-		EXISTING	FENCE
		EXISTING	PAVEMENT
_		EXISTING	PROPERTY LINE





22"x34" SCALE: 1/16" = 1'-0" 11"x17" SCALE: 1/32" = 1'-0"16'12' 6' 4' 0"

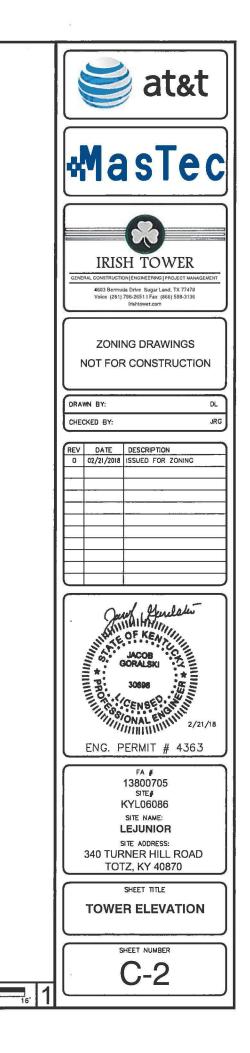


EXHIBIT C TOWER AND FOUNDATION DESIGN



Structural Design Report 255' S3TL Series HD1 Self-Supporting Tower Site: Lejunior, KY Site Number: KYL06086

> Prepared for: AT&T by: Sabre Towers & Poles [™]

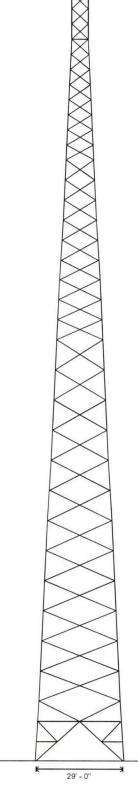
> > Job Number: 400933

January 17, 2018

Tower Profile	1
Foundation Design Summary	2
Maximum Leg Loads	3
Maximum Diagonal Loads	4
Maximum Foundation Loads	5
Calculations	6-18



Legs			8.625 0	8.625 OD X .500			4	5.563 C	5.563 OD X .500	в	0	о	ш
Diagonals	Ŀ		L 4 X 4 X 1/4		L 3 1/2 X 3 1/2 X 1/4	12 X 1/4	L 3 X 3 X 1/4	L3X3	L 3 X 3 X 3/16	L 2 1/2 X	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	U
Horizontals	I						NONE					-	NONE G
Internals	٢						NONE						
Sub-Diagonals	¥						NONE						
Sub-Horizontals	ſ						NONE						
Brace Bolts	(2) 3/4"	(2)	(2) 5/8"			(1) 3/4"					(1) 5/8"		
Top Face Width	27'	25'	23'	21'	19'	17'	15'	13'	11'	ð	7.	2	
Panel Count/Height	Z W			12 @ 10'	0 10'				9 @ 6.6667'			11 @ 5'	
Section Weight	6143	5406	5253	5013	4654	4518	3274	3145	2849	2211	1900	1207	565
0,		20'	40'	80'	100'		140' 120'		160'	180'	200'	220'	240'
k													



Designed Appurtenance Loading

Elev	Description	Tx-Line
260	(1) Extendible Lightning Rod	
250	(1) 278 sq. ft. EPA 6000# (no Ice)	(18) 1 5/8"
238	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"
226	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"
214	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

Base Reactions

Total For	undation	Individual F	ooting
Shear (kips)	77.06	Shear (kips)	47.41
Axial (kips)	193.51	Compression (kips)	527
Moment (ft-kips)	12445	Uplift (kips)	456
Torsion (ft-kips)	-30.91		

Material List

Display	Value	
A	8.625 OD X .322	
В	5.563 OD X .375	
С	4.500 OD X .337	
D	3.500 OD X .216	
E	2.375 OD X .154	
F	L 5 X 3 1/2 X 1/4 (SLV)	
G	L 2 X 2 X 1/8	
Н	L 3 1/2 X 3 1/2 X 1/4	
1	L 2 X 2 X 3/16	
لد	L 3 X 3 X 1/4	
К	L 3 X 3 X 3/16	
L	L 2 1/2 X 2 1/2 X 3/16	
М	1 @ 13.333'	
N	1 @ 6.667'	

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.
- 5) 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.
- (6) 1 1/2" dia. F1554 grade 105 anchor bolts per leg. Minimum 58" embedment from top of concrete to top of nut.
- 9) All unequal angles are oriented with the short leg vertical.
- 10) Weights shown are estimates. Final weights may vary.
- 11) This tower was designed for a basic wind speed of 89 mph with 0" of radial ice, and 30 mph with 1/2" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class II, Exposure Category B, Topographic Category 1.
- 12) The foundation loads shown are factored loads.

13) The tower design meets the requirements for an Ultimate Wind Speed of 115 mph (Risk Category II), in accordance with the 2012 International Building Code.

14) Tower Rating: 96.55%

	Sabre Communications Corporation	Job:	400933		
Sabre Industries	P.O. Box 658	Customer:	AT&T		
Towers and Poles	Sioux City, IA 51102-0658 Phone: (712) 258-6690	Site Name:	Lejunior, KY KY	L06086	
	Fac: (712) 279-0814 perty of Sabre Communications Corporation, constitutes a	Description:	255' S3TL		
	50 and shall not be reproduced, copied or used in whole the prior written consent of Sabre Communications	Date:	1/17/2018	By: NM	

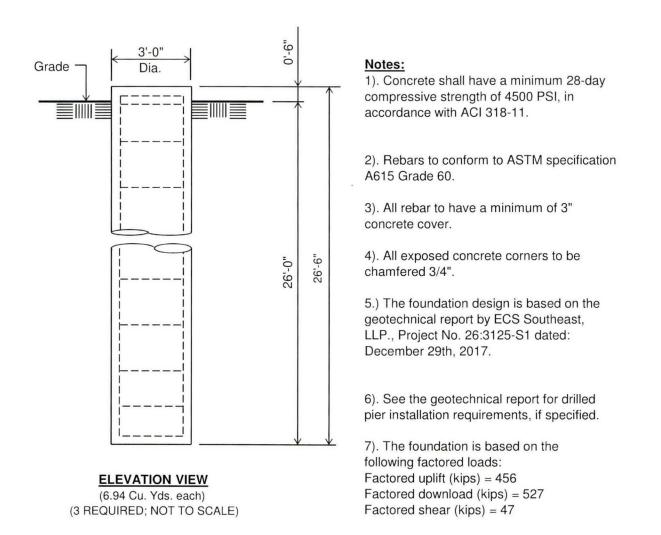
No.: 400933



Date: 1/17/18 By: NM

Customer: AT&T Site: Lejunior, KY KYL06086

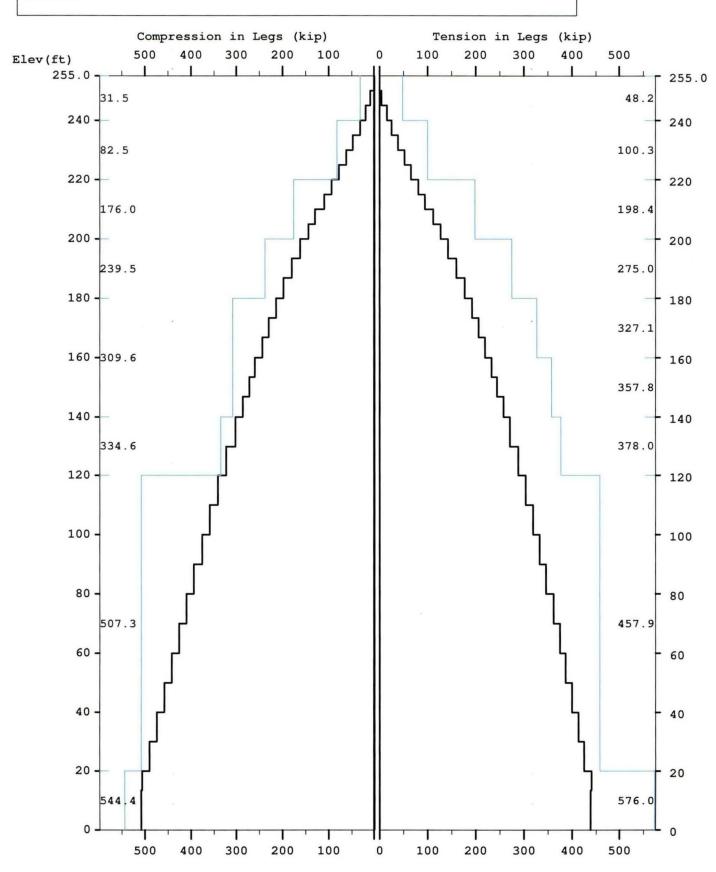
255 ft. Model S3TL Series HD1 Self Supporting Tower At 89 mph Wind with no ice and 30 mph Wind with 0.5 in. Ice per ANSI/TIA-222-G.



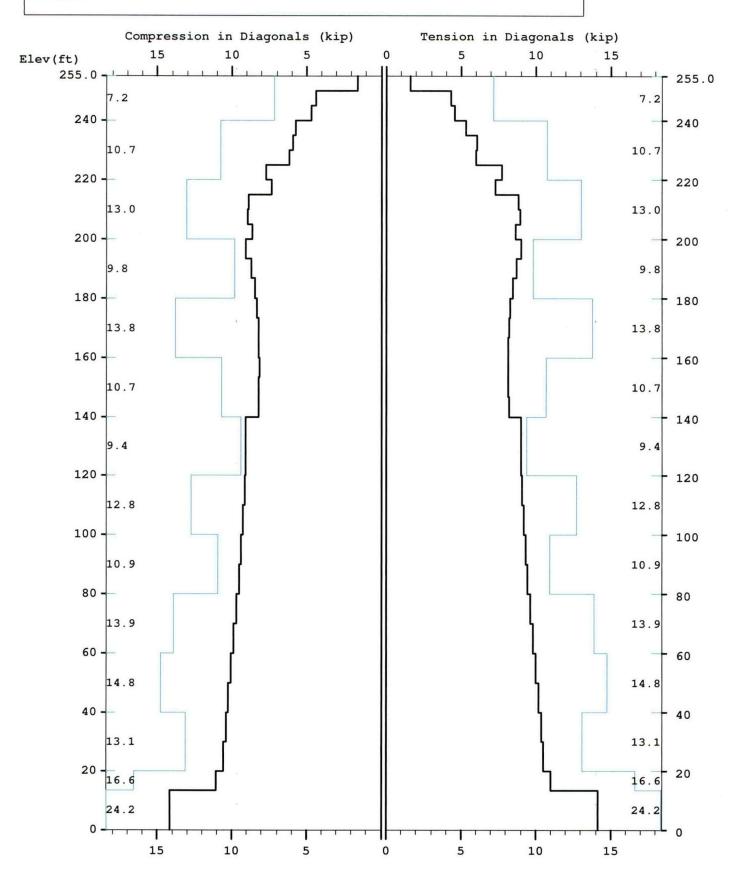
	Rebar Schedule per Pier
Pier	(12) #10 vertical rebar w/#4 ties, two (2) within top 5" of pier then 12" C/C

Information contained herein is the sole property of Sabre Towers & Poles, constitutes a trade secret as defined by Iowa 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 Sabre Towers & Poles.

Maximum



Maximum

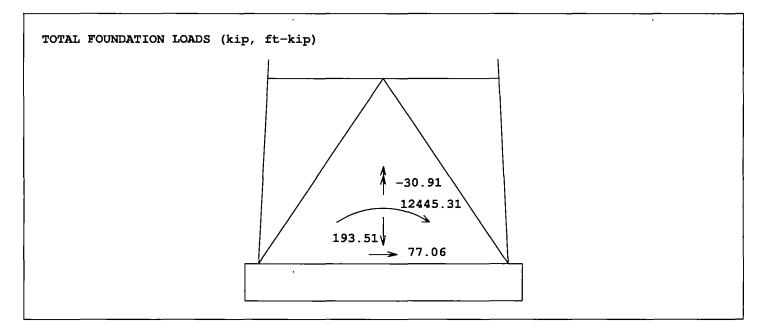


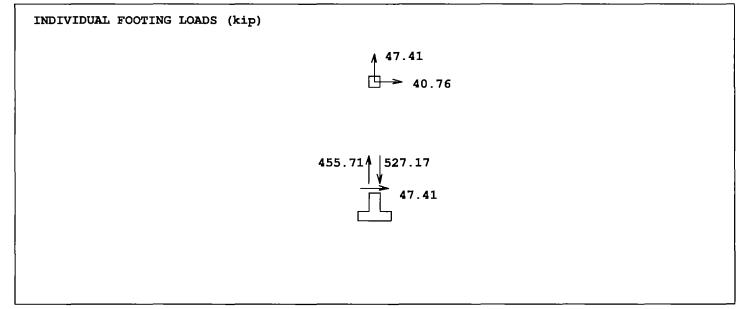
DrawResults C	opyright	(C)	Guymast	Inc.	2010	Phone: (416)	736-745
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Licensed to: Sabre Towers and Poles.

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Maximum





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	400933									
	r Analysis (Unguye er license at:	ed)		Guymast Inc	. 416-736-7453					
Sabre Towers	and Poles		. on	: 17 jan 201	L8 at: 9:40:2					
MAST GEOMETRY	(ft)									
PANEL NO.OF TYPE LEGS		ELEV.AT TOP	F.WAT BOTTOM	F.WAT TOP	TYPICAL PANEL HEIGHT					
x x x x x x x x x x x x x x x x x x x	$\begin{array}{c} 240.00\\ 235.00\\ 220.00\\ 200.00\\ 180.00\\ 160.00\\ 140.00\\ 120.00\\ 100.00\\ 80.00\\ 60.00\\ 40.00\\ 20.00\\ 13.33\end{array}$	255.00 250.00 240.00 235.00 220.00 200.00 180.00 140.00 140.00 120.00 100.00 80.00 60.00 40.00 20.00 13.33	5.00 5.50 7.00 9.00 11.00 13.00 15.00 17.00 19.00 21.00 23.00 25.00 27.67 29.00	5.00 5.00 5.50 7.00 9.00 11.00 15.00 17.00 19.00 21.00 23.00 25.00 27.67	5.00 5.00 5.00 5.00 6.67 6.67 10.00					
MEMBER PROPER	TIES									
MEMBER TYPE	BOTTOM TOP ELEV ELEV ft ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in		THERMAL EXPANSN /deg					
LE LE LE LE LE DI DI DI DI DI HO HO R	$\begin{array}{cccccc} 240.00 & 255.00 \\ 220.00 & 240.00 \\ 200.00 & 220.00 \\ 180.00 & 200.00 \\ 140.00 & 180.00 \\ 120.00 & 140.00 \\ 0.00 & 120.00 \\ 240.00 & 255.00 \\ 240.00 & 250.00 \\ 220.00 & 240.00 \\ 180.00 & 120.00 \\ 140.00 & 180.00 \\ 120.00 & 140.00 \\ 13.33 & 80.00 \\ 0.00 & 13.33 \\ 250.00 & 255.00 \\ 235.00 & 255.00 \\ 235.00 & 255.00 \\ 235.00 & 240.00 \\ 0.00 & 13.33 \\ 0.00 & 13.33 \\ 0.00 & 13.33 \\ \end{array}$	1.075 2.228 4.407 6.111 7.952 8.399 12.763 0.484 0.715 1.090 1.438 1.938 2.062 0.484 0.715 1.688 1.438	0.787 0.787 0.787 0.787 0.787 0.787 0.626 0.000	29000. 0.0 29000. 0.0	0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117 0000117					
FACTORED MEMB	ER RESISTANCES									
BOTTOM TOP ELEV ELEV ft ft	COMP TENS	DIAGON COMP kip	ALS HOI TENS COMI kip kij		INT BRACING COMP TENS kip kip					
250.0 255.0 240.0 250.0 235.0 240.0 220.0 235.0 200.0 220.0 180.0 200.0 160.0 180.0 140.0 160.0 120.0 140.0 100.0 120.0 80.0 100.0	31.48 48.15 82.52 100.35 82.52 100.35 175.98 198.45 239.46 274.95 309.64 327.10 309.64 357.75 334.65 378.00 507.33 457.90	7.16 10.74 1 10.74 1 13.03 1 9.84 13.79 1 10.69 1 9.41 12.75 1	7.16 5.8 7.16 0.00 0.74 8.44 0.74 0.01 3.03 0.00 9.84 0.00 3.79 0.00 0.69 0.00 9.41 0.00 2.75 0.00 0.91 0.00	0.00 6 8.46 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					

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400933

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						400933			
60.0	80.0	507.33	457.90	13.92	13.92	0.00	0.00	0.00	0.00
40.0	60.0	507.33	457.90	14.76	14.76	0.00	0.00	0.00	0.00
20.0	40.0	507.33	457,90	13.08	13.08	0.00	0.00	0.00	0.00
13.3	20.0	544,40	576.00	16.60	16.60	0.00	0.00	0.00	0.00
0.0	13.3	544.40	576.00	24.18	24.18	11.37	11.37	7.55	7.55

* Only 3 condition(s) shown in full * Some wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A 89 mph wind with no ice. Wind Azimuth: 0+

MAST LOADING =

c 260.0 0.00 0.0 0.0 0.23 0.15 0.00	0.00
C 250.0 0.00 0.0 0.0 8.37 7.20 0.00 C 238.0 0.00 0.0 0.0 6.17 4.80 0.00 C 226.0 0.00 0.0 0.0 6.08 4.80 0.00 C 214.0 0.00 0.0 0.0 5.99 4.80 0.00	0.00
D 255.0 0.00 180.0 0.0 0.06 0.04 0.00 D 250.0 0.00 180.0 0.0 0.06 0.04 0.00 D 250.0 0.00 42.0 0.0 0.01 0.06 0.06 0.06 D 240.0 0.00 42.0 0.0 0.11 0.06 0.06 D 240.0 0.00 64.4 0.0 0.14 0.11 0.06 D 235.0 0.00 79.5 0.0 0.14 0.11 0.06 D 230.0 0.00 79.5 0.0 0.14 0.11 0.06 D 230.0 0.00 83.3 0.0 0.15 0.12 0.05 D 225.0 0.00 83.3 0.0 0.17 0.14 0.04 D 220.0 0.00 89.2 0.0 0.18 0.18 0.05 D 215.0 0.00 353.1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

SUPPRESS PRINTING

	FOR	THIS LO	ADING	MAXIMUMS			
LOADS	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN
INPUT		FORCES	LOADS			FORCES	LOADS
no	yes	yes	yes	no	no	по	no

.

LOADING CONDITION M -----______ ____

89 mph wind with no ice. Wind Azimuth: 0+

	OADING	
LOAD TYPE	ELEV	APPLYLO
	ft	ft

LOAD TYPE		APPLYLC RADIUS ft			FOR HORIZ kip	CES DOWN kip	MOMI VERTICAL ft-kip	ENTS TORSNAL ft-kip
C C C C C C	260.0 250.0 238.0 226.0 214.0	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	$0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0$	$0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0$	0.23 8.37 6.17 6.08 5.99	0.12 5.40 3.60 3.60 3.60	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	0.00 0.00 0.00 0.00 0.00
D D D D D D D D D D D D D D D D D D D	255.0 250.0 240.0 240.0 235.0 235.0 230.0 225.0 220.0 220.0 225.0 220.0 220.0 220.0 215.0 200.0 180.0 160.0 160.0 160.0 160.0 160.0 120.0 120.0 200.0 200.0 180.0 180.0 160.0 160.0 160.0 160.0 120.0 20	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	$180.0\\180.0\\42.0\\42.0\\64.4\\79.5\\79.5\\83.3\\92.0\\92.0\\89.2\\351.6\\316.7\\322.4\\3$		$\begin{array}{c} 0.06\\ 0.06\\ 0.11\\ 0.14\\ 0.14\\ 0.14\\ 0.15\\ 0.15\\ 0.17\\ 0.17\\ 0.17\\ 0.18\\ 0.19\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.21\\ 0.20\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.19\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.19\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.21\\ 0.20\\ 0.20\\ 0.21\\ 0.20\\ 0.19\\ 0.15\\ 0.18\\$	0.03 0.03 0.04 0.08 0.08 0.09 0.09 0.09 0.11 0.11 0.13 0.15 0.15 0.15 0.16 0.17 0.19 0.20 0.20 0.20 0.21 0.21 0.21 0.22 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.29 0.20 0.20 0.20 0.21 0.21 0.21 0.21 0.21 0.21 0.21 0.22 0.23 0.23 0.28 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.28 0.28 0.28 0.28 0.28 0.29 0.29 0.29 0.20 0.20 0.20 0.21 0.21 0.21 0.22 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.29 0.20 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.28 0.29 0.28 0.28 0.28 0.29 0.29 0.29 0.29 0.29 0.28	$\begin{array}{c} 0.00\\ 0.00\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.03\\ 0.03\\ 0.03\\ 0.04\\ 0.03\\ 0.04\\ 0.02\\$	0.00 0.00 0.08 0.09 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.02
	INPUT	FORC	ES LO	ADS		FORCES	LOADS	
	no	yes ye	:s y	es 	no n 	o no	no	=

LOADING CONDITION Y

30 mph wind with 0.5 ice. Wind Azimuth: 0+

MAST LOADING ____ ____

•								
LOAD	ELEV	APPLYLOA	D. AT	LOAD	FORCES	5	MOME	ENTS
TYPE		RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL

						400933		
	ft	ft			kip	kip	ft-kip	ft-kip
с с с с с с с с	260.0 250.0 238.0 226.0 214.0	$0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 $	$0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 $	0.0 0.0 0.0 0.0 0.0	0.03 0.89 0.97 0.96 0.94	0.25 14.55 9.67 9.65 9.62	$0.00 \\ $	$0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 $
	$\begin{array}{c} 255.0\\ 250.0\\ 250.0\\ 240.0\\ 240.0\\ 235.0\\ 235.0\\ 235.0\\ 230.0\\ 225.0\\ 220.0\\ 225.0\\ 220.0\\ 225.0\\ 220.0\\ 225.0\\ 220.0\\ 215.0\\ 210.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 140.0\\ 120.0\\ 50.0\\ 20.0\\ 13.3\\ 13.3\\ 0.0 \end{array}$	$\begin{array}{c} 0.00\\$	$180.0 \\ 180.0 \\ 42.0 \\ 68.0 \\ 86.0 \\ 86.0 \\ 86.0 \\ 88.3 \\ 89.1 \\ 89.1 \\ 89.1 \\ 89.1 \\ 89.1 \\ 80.5 \\ 348.3 \\ 348.3 \\ 322.4 \\ 321.9 \\ 322.4 \\ 322.4 \\ 322.4 \\ 322.3 \\ 322.3 \\ 322.4 \\ $		0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.12 0.12 0.18 0.28 0.29 0.31 0.37 0.42 0.47 0.47 0.51 0.57 0.57 0.58 0.58 0.58 0.58 0.66 0.72 0.69 0.91	$\begin{array}{c} 0.00\\ 0.00\\ 0.17\\ 0.16\\ 0.16\\ 0.17\\ 0.15\\ 0.11\\ 0.15\\ 0.11\\ 0.12\\ 0.04\\ 0.04\\ 0.06\\ 0.08\\$	0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.00
	RESS PRINT	ENG 						

LOADS INPUT		THIS LO MEMBER FORCES	ADING FOUNDN LOADS	ALL	MAX DISPL	IMUMS MEMBER FORCES		
no	yes	yes	yes	no	no	по	no	

MAXIMUM MAST DISPLACEMENTS:

ELEV	DEI	EAST	t)	TILTS	(DEG)	TWIST
ft	NORTH		DOWN	NORTH	EAST	DEG
255.0 250.0 245.0 235.0 235.0 225.0 225.0 215.0 215.0 215.0 205.0 205.0 200.0 193.3 186.7 180.0 173.3 166.7 160.0 153.3 146.7	3.334 G 3.187 G 3.034 G 2.888 G 2.744 G 2.606 G 2.472 G 2.344 G 2.223 G 1.990 G 1.879 G 1.741 G 1.607 G 1.483 G 1.365 G 1.253 G 1.146 G 0.952 G	-3.206 D -3.064 D -2.917 D -2.638 D -2.638 D -2.505 D -2.377 D -2.253 D -2.137 D -2.021 D -1.913 D -1.673 D -1.673 D -1.545 D -1.425 D -1.311 D -1.203 D -1.101 D -1.004 D	0.044 G 0.039 G 0.037 G 0.035 G 0.031 G 0.029 i 0.027 i 0.027 i 0.026 i 0.023 i 0.023 i 0.023 i 0.023 i 0.023 i 0.023 i	1.698 G 1.701 G 1.628 G 1.589 G 1.535 G 1.469 G 1.392 G 1.349 G 1.349 G 1.248 G 1.133 G 1.133 G 1.072 G 0.960 G 0.910 G 0.859 G 0.808 G 0.758 G	-1.635 D -1.637 D -1.566 D -1.528 D -1.528 D -1.476 D -1.413 D -1.298 D -1.298 D -1.298 D -1.251 D -1.200 D -1.030 D -1.031 D -0.971 D -0.971 D -0.875 D -0.826 D -0.826 D -0.777 D -0.779 D	-0.089 F -0.089 F -0.085 F -0.085 F -0.078 F -0.074 F -0.071 F -0.068 F -0.062 F -0.062 F -0.060 F -0.056 F -0.056 F -0.056 F -0.059 X 0.049 X 0.047 X 0.047 H 0.047 H

====

				400077		
140.0	0 962 6	0 000 0	0.010 -	400933	0 670 5	0.035.0
140.0	0.863 G	-0.828 D	0.019 i	0.706 G	-0.679 D	0.035 н
130.0	0.741 G	-0.712 D	0.017 i	0.632 G	-0.608 D	0.032 н
120.0	0.634 G	-0.609 D	0.016 i	0.559 G	-0.537 D	-0.029 B
110.0	0.537 G	-0.515 D	0.015 i	0.511 G	-0.491 D	-0.027 B
100.0	0.449 G	-0.430 D	0.014 i	0.463 G	-0.445 D	-0.024 в
90.0	0.368 G	-0.353 D	0.013 i	0.416 G	-0.400 D	-0.022 в
80.0	0.295 G	-0.283 D	0.012 i	0.369 G	-0.355 D	-0.019 в
70.0	0.231 G	-0.221 D	0.011 i	0.322 G	-0.309 D	-0.017 в
60.0	0.175 G	-0.168 D	0.009 i	0.276 G	-0.265 D	-0.014 в
50.0	0.127 G	-0.121 D	0.008 e	0.229 G	-0.220 D	-0.012 B
40.0	0.086 G	-0.083 D	0.007 e	0.183 G	-0.176 D	-0.009 в
30.0	0.049 G	-0.047 D	0.005 e	0.137 G	-0.131 D	-0.007 в
20.0	0.018 G	-0.017 D	0.003 e	0.090 G	-0.086 D	-0.004 в
13.3	0.007 s	-0.007 P	0.002 e	0.060 G	-0.058 D	-0.003 B
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	0.69 s	 1.61 G	1.01 A	0.00 A
250.0	З.74 м	4.33 H	0.16 G	0.00 A
245.0	15.08 M	4.56 N	0.23 I	0.00 A
240.0	25.42 M	5.30 M	0.33 C	0.00 A
235.0	38.78 м	 6.07 в	0.20 A	0.00 A
230.0	51.44 M	6.01 т	0.09 A	0.00 A
225.0	64.93 M	 7.71 в	0.11 A	0.00 A
220.0	80.66 M	7.29 т	0.19 A	0.00 A
215.0	94.27 M		0.03 a	0.00 A
210.0	111.53 M	 8.95 н	0.20 A	0.00 A
205.0	126.27 M	8.62 N	0.03 A	0.00 A
200.0	143.56 M		0.18 A	0.00 A
193.3	160.51 M	 8.69 т	0.05 A	0.00 A
186.7	177.28 M	8.46 X	0.15 A	0.00 A
180.0	192.05 M	8.30 R	0.06 A	0.00 A
173.3	206.64 M		0.10 A	0.00 A
166.7	219.89 M		0.06 A	0.00 A
160.0	233.04 M	8.13 K 8.14 R	0.09 A	0.00 A
153.3	245.21 M	8.15 P	0.13 A	0.00 A
146.7	257.37 M	8.13 P 8.20 V	0.08 A	0.00 A
140.0	271.37 M	9.01 V	0.08 A	0.00 A
130.0	288.12 M	9.03 P	0.14 A	0.00 A
120.0	200.12 м 303.70 м	9.09 V	0.07 A	0.00 A
110.0	318.94 M	9.20 V	0.08 A	0.00 A
100.0	333.42 M	9.32 V	0.07 A	0.00 A
90.0	347.74 м	9.46 P	0.07 A	0.00 A
80.0	361.49 M	9.63 P	0.06 A	0.00 A
70.0	375.11 M	9.82 P	0.06 A	0.00 A
60.0			0.05 A	0.00 A

400933

	388.30 M	10.00 P		
50.0			0.06 A	0.00 A
	401.35 M	10.19 P		
40.0			0.04 O	0.00 A
30.0	414.04 M	10.36 P	0.07 s	0.00 A
50.0	426.53 M	10.51 P	0.07 5	0.00 A
20.0			0.14 A	0.00 A
	441.00 M	10.97 v		
13.3	430.04.1		0.63 U	0.00 R
0.0	439.94 M	14.14 P	0.00 A	0.00 A
0.0			0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-0.87 A	 -1.59 A	-1.02 G	0.00 A
250.0	-8.26 G	-4.36 B	-0.15 M	0.00 A
245.0	-19.81 G	-4.65 H	-0.15 O	0.00 A
240.0	-31.85 G	-4.05 H -5.71 G	-0.22 U	0.00 A
235.0	-47.50 G	-5.92 T	-0.13 s	0.00 A
230.0	-60.78 G	-6.20 B	-0.08 s	0.00 A
225.0	-77.29 G	-7.72 н	-0.06 s	0.00 A
220.0	-93.63 G	-7.34 в	-0.16 S	0.00 A
215.0	-110.17 G	-7.54 B 	0.00 U	0.00 A
210.0	-128.89 G	-8.95 N	-0.17 s	0.00 A
205.0	-144.40 G	-8.67 H	-0.01 s	0.00 A
200.0	-144,40 G -162,72 G		-0.15 s	0.00 A
193.3	-180.82 G	-9.06 н -8.74 в	-0.04 s	0.00 A
186.7	-198.82 G	-8.48 F	-0.13 s	0.00 A
180.0	-198.82 G 		-0.05 s	0.00 A
173.3			-0.09 s	0.00 A
166.7	-230.83 G	-8.23 F	-0.05 s	0.00 A
160.0	-245.47 G	-8.19 L	-0.08 s	0.00 A
153.3	-260.06 G -273.67 G	-8.16 F 	-0.11 s	0.00 A
146.7			-0.07 s	0.00 A
140.0	-287.34 G	-8.21 D	-0.07 s	0.00 A
130.0	-303.17 G	-9.07 D	-0.12 s	0.00 A
120.0	-322.24 G 	-9.06 J -9.14 D	-0.06 s	0.00 A
110.0			-0.07 s	0.00 A
100.0	-358.32 G	-9.24 J	-0.05 s	0.00 A
90.0	-375.60 G	-9.37 D	-0.06 s	0.00 A
80.0	-392.77 G	-9.50 J	-0.05 s	0.00 A
70.0	-409.41 G	-9.68 D	-0.05 s	0.00 A
	-426.01 G	-9.86 J		

			400933
60.0		-0.05 s	0.00 A
50.0	-442.22 G -10.05	-0.05 s	0.00 A
	-458.36 G -10.23	J	
40.0	-474.18 G -10.39	-0.04 I	0.00 A
30.0	-474.18 G -10.39	-0.09 A	0.00 A
20.0	-489.84 G -10.54		0.00.
20.0	-507.14 G -11.04	-0.12 s	0.00 A
13.3		-0.78 C	0.00 X
0.0	-508.55 G -14.18	D 0.00 A	0.00 A
0.0		0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

	LOADCO	MPONENTS		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
47.41 G	40.76 K	527.17 G	-455.71 м	47.41 G

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

HONORTH	ORIZONTA EAST @	L TOTAL 0.0	DOWN	NORTH	OVERTURNING EAST	۲ TOTAL ۵.0 ھ	FORSION
77.1	73.5	77.1	193.5	12445.3	-11935.5	12445.3	-30.9
S	V	S	e	G	D	G	N

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Sabre Towers and Poles	on: 17 jan 2018 at: 9:41:00

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

LOADING CONDITION A ______

MAST LOADING

LOAD	ELEV	APPLYLOADAT		LOAD	FORCE	s	MOME	ENTS
TYPE	۰.	RADIUS	AZI	AZI	HORIZ	DOWN	VERTICAL	TORSNAL
	ft	ττ			kip	kip	ft-kip	ft-kip
с	260.0	0.00	0.0	0.0	0.07	0.13	0.00	0.00
С	250.0	0.00	0.0	0.0	2.38	6.00	0.00	0.00
С	238.0	0.00	0.0	0.0	1.75	4.00	0.00	0.00
С	226.0	0.00	0.0	0.0	1.73	4.00	0.00	0.00

						400933		
с	214.0	0.00	0.0	0.0	1.70	4.00	0.00	0.00
a a a a a a a a a a a a a a a a a a a	255.0 250.0 240.0 240.0 235.0 225.0 225.0 225.0 225.0 215.0 215.0 210.0 210.0 210.0 200.0 180.0 160.0 160.0 160.0 140.0 120.0 21.5 20.0 20.0 20.0 21.5 20.0 20.	$\begin{array}{c} 0.00\\$	180.0 180.0 42.0 64.4 79.5 83.3 92.0 92.0 89.2 353.1 353.1 352.3 322.4 321.9 322.4 321.9 322.4 321.9 322.4 321.9 322.4 322.3 322.4 322.3 322.4	$\begin{array}{c} 0 & 0 \\$	0.02 0.03 0.04 0.04 0.04 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.06 0.05 0.05 0.05 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05 0.06 0.06 0.06 0.06 0.05	$\begin{array}{c} 0.03\\ 0.05\\ 0.05\\ 0.09\\ 0.09\\ 0.09\\ 0.10\\ 0.12\\ 0.12\\ 0.12\\ 0.15\\ 0.16\\ 0.16\\ 0.16\\ 0.17\\ 0.18\\ 0.19\\ 0.21\\ 0.22\\ 0.22\\ 0.22\\ 0.22\\ 0.22\\ 0.23\\ 0.23\\ 0.23\\ 0.31\\ 0.31\\ 0.31 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.05\\ 0.05\\ 0.05\\ 0.05\\ 0.05\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.04\\ 0.01\\ 0.01\\ 0.02\\$	0.00 0.02 0.02 0.03 0.03 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01
D D	13.3 0.0	0.00	322.4 322.4	0.0	0.05	0.37 0.37	0.02 0.02	0.01 0.01

SUPPRESS PRINTING

LOADS INPUT	FOR DISPL	THIS LO. MEMBER FORCES		ALL	MAX DISPL	IMUMS MEMBER FORCES	
no	yes	yes	yes	no	no	no	no

MAXIMUM MAST DISPLACEMENTS:

ELEV	DEF	LECTIONS (f	t)	TILTS ((DEG)	TWIST
ft	NORTH		DOWN	NORTH	EAST	DEG
255.0 250.0 245.0 230.0 230.0 225.0 220.0 215.0 210.0 205.0 200.0 193.3 186.7 180.0 173.3 166.7 160.0 153.3 146.7 140.0 130.0 120.0 110.0 100.0	0.954 G 0.868 G 0.826 G 0.785 G 0.785 G 0.708 G 0.671 G 0.636 G 0.662 G 0.570 G 0.460 G 0.425 G 0.328 G 0.328 G 0.328 G 0.328 G 0.328 G 0.320 G 0.273 G 0.2247 G 0.213 G 0.182 G 0.182 G 0.129 G	-0.917 D -0.877 D -0.875 D -0.755 D -0.755 D -0.755 D -0.645 D -0.645 D -0.645 D -0.612 D -0.579 D -0.579 D -0.579 D -0.579 D -0.479 D -0.479 D -0.479 D -0.479 D -0.376 D -0.345 D -0.345 D -0.345 D -0.288 D -0.288 D -0.262 D -0.238 D -0.204 D -0.175 D -0.175 D	0.016 G 0.015 G 0.015 G 0.014 G 0.013 G 0.013 G 0.013 G 0.012 G 0.012 G 0.011 G 0.011 G 0.011 G 0.011 G 0.011 G 0.010 G 0.009 G 0.009 G 0.009 G 0.009 G 0.009 G 0.008 G 0.007 G 0.006 F 0.006 F	0.485 G 0.486 G 0.481 G 0.454 G 0.454 G 0.439 G 0.398 G 0.398 G 0.371 G 0.357 G 0.340 G 0.324 G 0.306 G 0.288 G 0.274 G 0.260 G 0.246 G 0.246 G 0.246 G 0.246 G 0.217 G 0.202 G 0.181 G 0.160 G 0.133 G	-0.467 D -0.468 D -0.463 D -0.448 D -0.437 D -0.422 D -0.404 D -0.383 D -0.371 D -0.357 D -0.343 D -0.327 D -0.312 D -0.295 D -0.295 D -0.295 D -0.226 D -0.	0.025 L 0.025 L 0.025 L 0.023 L 0.022 L 0.021 L 0.021 L 0.019 L 0.019 L 0.017 L 0.015 L 0.013 H 0.013 H 0.013 H 0.011 H 0.011 H 0.011 H 0.010 H -0.008 B -0.008 B
90.0	0.106 G	-0.101 D	0.005 F	0.119 G	-0.115 D	-0.006 B
80.0	0.085 G	-0.081 D	0.005 F	0.106 G	-0.102 D	-0.005 B
70.0	0.066 G	-0.064 D	0.004 F	0.092 G	-0.089 D	0.005 H

				400933		
60.0	0.050 G	-0.048 D	0.004 L	0.079 G	-0.076 D	0.004 H
50.0	0.036 G	-0.035 D	0.003 L	0.066 G	-0.063 D	0.003 H
40.0	0.025 G	0.024 J	0.003 L	0.053 G	-0.051 D	0.003 H
30.0	0.014 G	-0.014 D	0.002 L	0.039 G	-0.038 D	0.002 H
20.0	0.005 G	-0.005 D	0.001 L	0.026 G	-0.025 D	0.001 н
13.3	0:002 G	0.002 J	0.001 L	0.017 G	-0.017 D	0.001 H
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

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MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0			0.29 A	0.00 A
250.0	0.14 G	0.47 G	0.05 G	0.00 A
245.0	0.00 A	1.24 В	0.09 I	0.00 A
240.0	2.74 A	1.28 В	0.13 C	0.00 A
235.0	5.14 A	1.39 A	0.08 A	0.00 A
230.0	8.22 A	1.78 В	0.03 A	0.00 A
225.0	11.66 A	1.65 В	0.05 A	0.00 A
220.0	14.51 A	2.19 н	0.06 A	0.00 A
215.0	18.83 A	2.06 H	0.01 C	0.00 A
210.0	21.74 A	2.47 в	0.07 A	0.00 A
205.0	26.19 A	2.55 н	0.07 A	0.00 A
	30.19 A	2.43 н		
200.0	34.83 A	2.57 в	0.06 A	0.00 A
193.3	39.37 A	2.46 н	0.02 A	0.00 A
186.7	43.83 A	2.41 L	0.05 A	0.00 A
180.0	47.72 A	2.36 F	0.02 A	0.00 A
173.3	51.52 A	2.34 L	0.03 A	0.00 A
166.7	54.96 A	2.32 L	0.02 A	0.00 A
160.0	58.35 A	2.32 L	0.03 A	0.00 A
153.3	61.47 A	2.32 D	0.04 A	0.00 A
146.7	64.58 A	2.35 J	0.02 A	0.00 A
140.0	68.14 A	2.57 J	0.03 A	0.00 A
130.0	72.37 A	2.59 J	0.05 A	0.00 A
120.0	76.23 A	2.61 J	0.02 A	0.00 A
110.0	79.91 A	2.65 J	0.03 A	0.00 A
100.0	83.39 A	2.69 J	0.02 A	0.00 A
90.0		2.03 3	0.02 A	0.00 A
80.0	86.80 A		0.02 A	0.00 A
70.0	90.05 A	2.78 J	0.02 A	0.00 A
60.0	93.24 A	2.84 D	0.02 A	0.00 A
50.0	96.30 A	2.89 J	0.02 A	0.00 A
40.0	99.30 A	2.94]	0.01 C	0.00 A
30.0	102.19 A	3.00]	0.01 G	0.00 A
20.0	105.02 A	3.06 D	0.05 A	0.00 A

	108.61 A	3.18 J		
13.3			0.16 I	0.00 F
	107.44 A	4.12 J		
0.0			0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-0.30 A	 -0.45 A	-0.30 G	0.00 A
250.0	-3.76 G		-0.04 A	0.00 A
245.0	-7.11 G		-0.02 C	0.00 A
240.0		-1.36 H	-0.02 I	0.00 A
235.0	-11.05 G 	-1.74 G	-0.01 G	0.00 A
230.0		-1.64 H	-0.02 G	0.00 A
225.0	-20.13 G	-1.82 H	0.00 A	0.00 A
220.0	-25.72 G	-2.20 H	-0.04 G	0.00 A
215.0	-30.51 G	-2.10 H	0.00 A	0.00 A
210.0	-36.07 G	-2.56 G	-0.04 G	0.00 A
205.0	-41.78 G	-2.54 н	0.00 A	0.00 A
200.0	-46.36 G	-2.48 H	-0.03 G	0.00 A
193.3	-51.81 G	-2.58 H	0.00 G	0.00 A
186.7	-57.22 G	-2.50 в	-0.03 G	0.00 A
180.0	-62.62 G	-2.42 F	-0.01 G	0.00 A
173.3	-67.49 G	-2.39 L	-0.02 G	0.00 A
166.7	-72.37 G	-2.36 F	-0.01 G	0.00 A
160.0	-76.87 G	-2.35 L	-0.02 G	0.00 A
153.3	-81.36 G	-2.34 F	-0.02 G	0.00 A
146.7	-85.57 G	-2.36 D	-0.01 G	0.00 A
140.0	-89.82 G	-2.36 J	-0.01 G	0.00 A
130.0	-94.75 G	-2.62 J	-0.03 G	0.00 A
120.0	-100.74 G	-2.62 J	-0.01 G	0.00 A
110.0	-106.51 G	-2.66 J	-0.01 G	0.00 A
100.0	-112.34 G	-2.69 D	-0.01 G	0.00 A
90.0	-117.98 G	-2.74 ј	-0.01 G	0.00 A
80.0	-123.61 G	-2.78 J	-0.01 G	0.00 A
70.0	-129.11 G	-2.83 D	-0.01 G	0.00 A
60.0	-134.61 G	-2.88 J	-0.01 G	0.00 A
50.0	-140.02 G	-2.93 J	-0.01 G	0.00 A
40.0	-145.42 G	-2.99 D	-0.01 G	0.00 A
30.0	-150.73 G	- 3.04 D	-0.01 I -0.03 A	0.00 A
0.0	-156.00 G	-3.09 J	-0.03 A	0.00 A

			4	00933
20.0			-0.02 G	0.00 A
	-161.62 G	-3.25 D		
13.3			-0.25 C	0.00 K
	-162.79 G	-4.16 D		
0.0		 .	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

NORTH	LOADCO EAST	MPONENTS DOWN	UPLIFT	TOTAL SHEAR
14.68 G	12.63 K	168.75 G	-111.45 A	14.68 G
MAXIMUM TOTAL	LOADS ON FOUN	DATION : (ki	p & kip-ft)	

-----HORIZONTAL-----
NORTHDOWN
EAST
Q 0.0-----OVERTURNING------
TOTAL
Q 0.0TOTAL
TOTAL
Q 0.022.3-21.322.379.13576.3-3430.73576.38.8GDGLGDGH

DRILLED STRAIGHT PIER DESIGN BY SABRE TOWERS & POLES

Tower Description 255' S3TL Series HD1 Customer Name AT&T Job Number 400933 Date 1/17/2018 Engineer NM

Factored Uplift (kips)	456	Anchor Bolt Count (per leg)	6
Factored Download (kips)	527		
Factored Shear (kips)	47		
Ultimate Bearing Pressure	20		
Bearing Φs	0.75		
Bearing Design Strength (ksf)	15		
Water Table Below Grade (ft)	999		
Bolt Circle Diameter (in)	13.25		
Top of Concrete to Top			
of Bottom Threads (in)	58		
Pier Diameter (ft)	3	Minimum Pier Diameter (ft)	2.44
Ht. Above Ground (ft)	0.5		
Pier Length Below Ground (ft)	26		
Quantity of Bars	12		
Bar Diameter (in)	1.27		
Tie Bar Diameter (in)	0.5		
Spacing of Ties (in)	12		
Area of Bars (in ²)	15.20	Minimum Area of Steel (in ²)	5.09
Spacing of Bars (in)	7.26		
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Concrete (kcf)	0.15		
Download Friction Φs	0.75		
Uplift Friction Φs	0.75		
Volume of Concrete (yd ³)	6.94		
Skin Friction Factor for Uplift	1	Length to Ignore Download (ft)	
Ignore Bottom Length in Download?		0	
Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	(Ult. Skin Friction)*(Uplift Factor)	γ (kcf)
5	0.00	0.00	0.115
10	1.50	1.50	0.115
30	4.00	4.00	0.135
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0

Download:

Factored Net Weight of Concrete (kips) Bearing Design Strength (kips) Skin Friction Design Strength (kips) Download Design Strength (kips)

	0.6
	106.0
	505.4
526	611.4

Factored Net Download (kips)



DRILLED STRAIGHT PIER DESIGN BY SABRE TOWERS & POLES (CONTINUED)

Uplift: Nominal Skin Friction (kips) 673.9 Wc, Weight of Concrete (kips) 28.1 W_R, Soil Resistance (kips) 959.6 ΦsWr+0.9Wc (kips) 745.0 Uplift Design Strength (kips) Factored Uplift (kips) 456.0 530.7 Pier Design: Design Tensile Strength (kips) 820.9 Tu (kips) 456.0 φV_n (kips) 60.4 V_u (kips) 47.0 $\phi V_c = \phi 2(1 + N_u / (500 A_g)) f'_c^{1/2} b_w d$ (kips) 12.3 *** $V_s max = 4 f'_c^{1/2} b_w d$ (kips) V_s (kips) 56.5 278.2 (Only if Shear Ties are Required) Maximum Spacing (in) 13.01 *** Ref. ACI 11.5.5 & 11.5.6.3 Anchor Bolt Pull-Out: $\phi P_c = \phi \lambda (2/3) f'_c^{1/2} (2.8 A_{SLOPE} + 4 A_{FLAT})$ 153.4 P_u (kips) 456.0 Rebar Development Length (in) Required Length of Development (in) 47.76 31.55

Condition	1 is OK, 0 Fails
Download	1
Uplift	1
Area of Steel	1
Shear	1
Anchor Bolt Pull-Out	1
Interaction Diagram Visual Check	1



January 24, 2018 Kentucky Public Service Commission 211 Sower Blvd. P.O. Box 615 Frankfort, KY 40602-0615

RE: Site Name – Lejunior Proposed Cell Tower 36 55'08.07" North Latitude, 83 10'16.40" West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be Don Murdock. His contact information is (615) 207-8280 or <u>Don.Murdock@mastec.com</u>

Don has been in the industry completing civil construction and constructing towers since 2009. He has worked at Mastec Network Solutions since 2009 completing project and construction management on new site build projects.

Thank you,

Don Murdock, Sr. Project Manager – Tennessee/Kentucky Market MasTec Network Solutions (615) 207-8280 EXHIBIT D COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST Utility

Name

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KY Public Service Commission

Master Utility Search

 Search for the utility of interest by using any single or combination of
 Utility ID

Address/City/Contact Utility Type

Status

▼ Active ▼

criteria.
Enter Partial names to return the closest match for Utility
Name and Address/City/Contact entries.

Search

_	Utility ID	Utility Name	Utility Type	Class	City	State
View	4107900	365 Wireless, LLC	Cellular	D	Atlanta	GA
View	4109300	Access Point, Inc.	Cellular	D	Cary	NC
View	4108300	Air Voice Wireless, LLC	Cellular	A	Bloomfield Hill	MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular	с	Morristown	τn
View	44451184	Alltel Communications, LLC	Cellular	A	Basking Ridge	Γ
View	4110850	AltaWorx, LLC	Cellular	С	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	с	Toledo	он
View	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4110700	Andrew David Balholm dba Norcell	Cellular	с	Clayton	WA
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	ĽN
View	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
View	4108750	Blue Jay Wireless, LLC	Cellular	С	Carrollton	тх
View	4111050	BlueBird Communications, LLC	Cellular	С	New York	NY
View	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
Vlew	4107600	Boomerang Wireless, LLC	Cellular	В	Hiawatha	IA
View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI

Utility Master Information - Search

		Utility Master Information – Search		1		1
View			Cellular	D		MA
View		Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	U)
View	4106600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
View	4111000	ComApp Technologies LLC	Cellular	С	Melrose	MA
View		Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	Α	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	Α	San Antonio	TX
View		CTC Communications Corp. d/b/a EarthLink Business I	Cellular	D	Grand Rapids	MI
View	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	КҮ
View		East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	кү
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
	4109500	Enhanced Communications Group, LLC	Cellular		Bartlesville	ок
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	ΤN
View	4105900	Flash Wireless, LLC	Cellular	С	Concord	NC
View		France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	В	Covington	LA
	1	Google North America Inc.	Cellular	В	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
View	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	ĽΝ
View		Horizon River Technologies, LLC	Cellular	с	Atlanta	GA
View	4103100	i-Wireless, LLC	Cellular	A	Newport	КY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	ок
View	22215360	KDDI America, Inc.	Cellular	D	New York	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	LИ
View	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
View	10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	кү
View	4109750	Konatel, Inc. dba telecom.mobi	Cellular	D	Johnstown	PA
View	4110900	Lunar Labs, Inc.	Cellular	С	Detroit	MI
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ

Utility Master Information - Search

——		Utility Master Information – Search		1_	I	1
View			Cellular	D	Mesa	AZ
View		New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	тх
View	10900	New Par dba Verizon Wireless	Cellular	A	Basking Ridge	ĽΝ
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	кs
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	ĸs
View	4001800	OnStar, LLC	Cellular	A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	С	Plymouth	MN
View	4109050	Patriot Mobile LLC	Cellular	D	Southlake	ΤХ
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	ОН
View	4202100	Powertel/Memphis, Inc. dba T- Mobile	Cellular	A	Bellevue	WA
View	4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	В	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular	D	Raleigh	NC
View		Rural Cellular Corporation	Cellular		Basking Ridge	IJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Freemont	NE
View	4106300	SI Wireless, LLC	Cellular	A	Carbondale	IL
View	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
View	4200100	Sprint Spectrum, L.P.	Cellular	Α	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	Α	Atlanta	GA
View	4109550	Stream Communications, LLC	Cellular	D	Dallas	πх
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T- Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Carrollton	ТХ
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	South Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4108900	Telrite Corporation dba Life Wireless	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Kansas City	MO
Vlew	4109950	The People's Operator USA, LLC	Cellular	D	New York	NY
View	4109000	Ting, Inc.	Cellular	A	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL

Utility Master Information - Search

View	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	ΓN
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4110300	UVNV, Inc.	Cellular	D	Costa Mesa	CA
View	4105700	Virgin Mobile USA, L.P.	Cellular	A	Atlanta	GA
View	4110800	Visible Service LLC	Cellular	С	Lone Tree	CO
View	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular	С	New York	NY
View	4109900	Wireless Telecom Cooperative, Inc. dba theWirelessFreeway	Cellular	D	Louisville	КY

EXHIBIT E FAA



Mail Processing Center Federal Aviation Administration Southwest Regional Office Obstruction Evaluation Group 10101 Hillwood Parkway Fort Worth, TX 76177 Aeronautical Study No. 2017-ASO-25571-OE

Issued Date: 12/28/2017

Dave Cundiff - Dana Irvin AT&T Mobility 208 S. Akard St., 1012.4 Dallas, TX 75202

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

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

Structure:	Antenna Tower Lejunior
Location:	Totz, KY
Latitude:	36-55-08.07N NAD 83
Longitude:	83-10-16.40W
Heights:	1730 feet site elevation (SE)
	270 feet above ground level (AGL)
	2000 feet above mean sea level (AMSL)

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

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

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

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

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

This determination expires on 06/28/2019 unless:

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

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

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

This determination does not constitute authority to transmit on the frequency(ies) identified in this study. The proponent is required to obtain a formal frequency transmit license from the Federal Communications Commission (FCC) or National Telecommunications and Information Administration (NTIA), prior to on-air operations of these frequency(ies).

This determination of No Hazard is granted provided the following conditional statement is included in the proponent's construction permit or license to radiate:

Upon receipt of notification from the Federal Communications Commission that harmful interference is being caused by the licencee's (permittee's) transmitter, the licensee (permittee) shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after 1 year of interference-free operation.

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

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

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

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

If we can be of further assistance, please contact our office at (202) 267-0105, or j.garver@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-ASO-25571-OE.

Signature Control No: 351293490-352028548 Jay Garver Specialist

Attachment(s) Frequency Data Map(s)

cc: FCC

Frequency Data for ASN 2017-ASO-25571-OE

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

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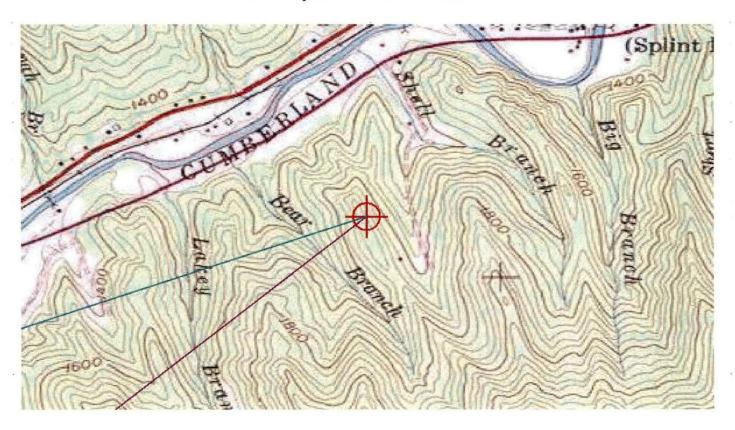


EXHIBIT F KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

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

February 14, 2018

APPROVAL OF APPLICATION

APPLICANT: John Monday John Monday 3300 E. Renner Rd B3132 Richardson, TX 75082

SUBJECT: AS-048-I35-2018-008

STRUCTURE:Antenna TowerLOCATION:Totz, KYCOORDINATES:36° 55' 8.07" N / 83° 10' 16.40" WHEIGHT:270' AGL/2000'AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 270'AGL/ 2000'AMSL Antenna Tower near Totz, KY 36° 55' 8.07" N / 83° 10' 16.40" W.

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

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

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

John Houlihan Administrator



An Equal Opportunity Employer M/F/D



KENTUCKY AIRPORT ZONING COMMISSION

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

CONSTRUCTION/ALTERATION STATUS REPORT

February 14, 2018

AERONAUTICIAL STUDY NUMBER: AS-048-I35-2018-008

John Monday John Monday 3300 E. Renner Rd B3132 Richardson, TX 75082

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on February 14, 2018. This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within the said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit. When appropriate, please indicate the status of the project in the place below and return this letter to John Houlihan, Administrator, Kentucky Airport Zoning Commission, 421 Buttermilk Pike, Covington, KY, 41017. 859-341-2700.

STRUCTURE:Antenna TowerLOCATION:Totz, KYCOORDINATES:36° 55' 8.07" N / 83° 10' 16.40" WHEIGHT:270' AGL /2000'AMSL

CONSTRUCTION/ALTERATION STATUS

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

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

Date construction was completed.

Type of obstruction marking/painting.	
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Type of obstruction lighting.

As built coordinates.

Miscellaneous Information.

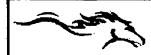
DATE ______

SIGNATURE/TITLE_____



An Equal Opportunity Employer M/F/D

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KENTUCKY TRANSPORTATION CABINET

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

KENTUCKY AIRPORT ZONING COMMISSION

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (<i>name</i>) John Monday	PHONE 855-699-7073	FAX 972-907-1131	KY AERONAUTICAL STUDY # 15-045-735-2018-0			
ADDRESS (street)	СІТҮ	L		ZIP		
3300 E. Renner Road, B3132	Richardson		XT	75082		
APPLICANT'S REPRESENTATIVE (name)	PHONE	FAX		·		
Roy Johnson	502-445-2475	502-222-4266				
ADDRESS (street)	СПТҮ		STATE	ZIP		
3605 Mattingly Road	Buckner		кy	40010		
APPLICATION FOR X New Construct	tion Alteration Existing		WORK SCHEDULE			
DURATION Permanent Tem	porary (months days)		Start End TBD			
TYPE Crane Building	MARKING/PAINTIN	G/LIGHTING PREFER	RRED			
X Antenna Tower	🔲 Red Lights & Pai	Int 🗌 White- medi	ium intensity 🔲 W	/hite- high intensity		
🔲 Power Line 🔲 Water Tank	X Dual- red & med	lium intensity white	Dual- red & hip	gh intensity white		
🔲 Landfill 👘 🗍 Other	Other					
LATITUDE	LONGITUDE		DATUM X NADI	83 NAD27		
36 ⁰ 55 08 07 *	83 ⁰ 10' 10	5.40 *	Other	_		
NEAREST KENTUCKY	NEAREST KENTUCK	Y PUBLIC USE OR MI	LITARY AIRPORT			
City County Harlan	135 Tucker-Guthri	ie Memorial				
SITE ELEVATION (AMSL, feet) 1730	TOTAL STRUCTURE	HEIGHT (AGL, feet)	CURRENT (FAA aeronautical study #) 2017-ASO-25571-OE			
OVERALL HEIGHT (site elevation plus to		fact	PREVIOUS (FAA aer			
2000		· ·	PREVIOUS (FAA def			
DISTANCE (from nearest Kentucky publi 9.69 NM	c use or Military airp	ort to structure)	PREVIOUS (KY aero	nautical study #)		
DIRECTION (from nearest Kentucky pub Northeast	lic use or Military air	port to structure)				
DESCRIPTION OF LOCATION (Attach US	GS 7.5 minute quadr	rangle map or an airp	port layout drawing	with the precise site		
marked and any certified survey.)						
1A a	nd Quad attached					
DESCRIPTION OF PROPOSAL						
AT&T proposes to construct a 255' cell toy	ver with a 15' lightning	rod for an overall heig	ht of 270'.			
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?)						
No X Yes, when? 12/14/17						
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of						
my knowledge and belief.)						
PENALITIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or						
imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)						
NAME TITLE Michelle Ward Sr. Real Estate M	gr. SIGNATURE	fine word	DATE 12/28/17			
COMMISSION ACTION						
Approved SIGNATURE		, ··· -==	DATE 2-14	-18		
Disapproved	in			· ~ [

EXHIBIT G GEOTECHNICAL REPORT

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"Setting the Standard for Service"

December 29, 2017

Mr. Jacob Goralski, P.E. Irish Tower, LLC 4603 Bermuda Drive. Sugar Land, TX 77479

ECS Project No. 26:3125-S1

Report of Subsurface Exploration and Geotechnical Engineering Services Reference: Lejunior Tower 340 Turner Hill Road Totz, KY

Dear Mr. Goralski:

ECS Southeast, LLP (ECS) has completed the subsurface exploration for the proposed construction of a self-supporting tower located at 340 Turner Hill Road, in Totz, Kentucky, approximately 2,000 feet southwest of the intersection with Highway 119. The purpose of these services was to explore the subsurface soil and groundwater conditions at the site, and to develop geotechnical recommendations pertaining to foundation support of the structure. This report explains our understanding of the project, documents our findings, and presents our conclusions and geotechnical engineering recommendations to serve as an aid during the design and construction of the project.

PROJECT INFORMATION AND PROPOSED CONSTRUCTION

The project will consist of the construction of a new 255+/-foot tall self-supporting tower with a 15-foot lightning arrestor and fenced equipment compound. The proposed tower site is located in a grassed area surrounded by trees. See the attached Site Location Diagram (Figure 1) and Boring Location Diagram (Figure 2). We have received preliminary site plans showing the site boundaries and proposed tower location. No loading information was provided for the tower. Based on information provided from the client, the current ground surface elevation at the center of the tower is approximately 1729.9 feet MSL. To achieve the proposed grading at the tower site, we anticipate minimal cut and fill will be required. We do not anticipate that any significant stormwater management (SWM) facilities or site retaining walls will be required for this project.

EXPLORATION PROCEDURES

The site subsurface conditions were explored on December 20, 2017, completing three Standard Penetration Test (SPT) borings drilled 35 feet from the staked center of the tower location. The borings were drilled to the depth of approximately 4 to 10 feet. The approximate boring locations are shown on the attached Boring Location diagram (Figure 2). The boring locations were based on a survey stake-out that was performed by others. Prior to drilling, underground utilities were cleared through the Kentucky 811system.

A CME 45 truck-mounted drill rig was utilized to complete the SPT borings. The drill rig utilized 3-1/4 inch hollow stem augers to advance the boreholes. Representative soil samples were secured by means of conventional split-barrel sampling procedures (ASTM D1586). In this procedure, a 2-inch O.D., split-barrel sampler is driven into the soil a distance of 18 inches by a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler Lejunior Tower ECS Project No. 26:3125-S1 December 29, 2017 Page 2

through the final 12-inch interval, after initial setting of 6 inches, is termed the Standard Penetration Test (SPT) value or N-value, and is indicated for each sample on the attached boring log.

The SPT values can be used as a qualitative indication of the in-place relative density of cohesionless soils, and as a relative indication of consistency in cohesive soils. This indication is qualitative, since many factors can affect the standard penetration resistance value and prevent a direct correlation between drill crews, drill rigs, drilling procedures, and hammer-rod-sampler assemblies. The drill rig utilized an automatic hammer to drive the sampler.

Field logs of the soil encountered at the boring location was maintained by the drilling crew. After recovery, each soil sample was removed from the sampler and visually classified by the driller. Representative portions of each soil sample were then sealed in plastic bags and transported to our laboratory in Nashville (Franklin), Tennessee, for further visual observation and classification. Observations for groundwater were made during sampling and upon completion of the drilling operations. After completion of the drilling operations, the borehole was backfilled with auger cuttings and excess soil was mounded at the surface.

CLASSIFICATION AND LABORATORY TESTING PROCEDURES

A geotechnical engineer classified each soil sample on the basis of texture and plasticity in accordance with the Unified Soil Classification System (ASTM D 2487). The group symbols for each soil type are indicated in parentheses following the soil descriptions on the boring logs summary. A brief explanation of the Unified Soil Classification System (USCS) is included with this report. The engineer grouped the various soil types into the major zones noted on the boring logs. The stratification lines designating the interfaces between materials on the exploration records are approximate; in situ, the transitions may be gradual.

The soil samples will be retained in our laboratory for a period of 60 days, after which, they will be discarded unless other instructions are received as to their disposition.

SITE GEOLOGY

The USGS Geologic Map of the Harlan Quadrangle (1972) indicates this particular site is underlain by the Hance Formation. This formation is typically comprised of sandstone, shale, siltstone and coal. Interbedded siltstone and shale, medium- to dark-gray commonly contains nodules of limestone, concretions, and layers of ironstone, with some fossils. Gray, micaceous, clayey, fine to medium grained sandstone commonly lies in the upper region of this formation.



Figure 1 - USGS Geologic Map of the Harlan Quadrangle (approximate site location highlighted)

Lejunior Tower ECS Project No. 26:3125-S1 December 29, 2017 Page 3

SUBSURFACE CONDITIONS

The subsurface conditions discussed in the following paragraphs, and those shown on the boring logs, represent an estimate of the subsurface conditions based on interpretation of the exploration data using normally accepted geotechnical engineering judgments. It should be noted that the transition between different soil strata is often less distinct than what is shown on the exploration records.

In general, the exploration revealed an approximate 4-inch thick layer of gravel underlain by lean clay extending to depths of auger refusal (approximately 4 to 10 feet). SPT N-values for the clay materials varied from 10 to 28 blows per foot (bpf). The encountered conditions are shown on the attached boring logs.

Groundwater was not encountered at the time of our exploration. It should be noted that groundwater can vary on a seasonal basis due to precipitation, evaporation, surface run-off, area stream levels and other factors not immediately apparent at the time of this exploration. It is also possible for groundwater to exist in a perched condition within the soil overburden or at the soil/rock interface.

ANALYSIS AND RECOMMENDATIONS

General

The following recommendations have been developed on the basis of the previously described project information and subsurface conditions identified during this study. If there are any changes to the project characteristics, or if differing subsurface conditions are encountered during construction, ECS should be consulted so that the recommendations of this report can be reviewed and revised, as necessary.

Subgrade Preparation

Vegetation, and all other soft, unsuitable, or deleterious material should be removed from the existing ground surface at the foundation areas. These operations should extend at least 5 feet beyond the edge of planned structures, where practical. After examining the exposed soils, loose and yielding areas should be identified by proofrolling with an approved piece of equipment, such as a loaded dump truck, having an axle weight of at least 10 tons. Unsuitable or unstable subgrade materials may require moisture conditioning, in-place densification, or removal and replacement with new engineered fill.

It should also be emphasized that based on the relatively shallow depth of shale bedrock encountered and the existing site grades, depending on the grading plan, it is possible that excavation or cuts into the shale may occur. Excavation of the shale bedrock may require special excavation techniques, such as hoe-ramming.

Engineered Fill

The first layer of fill should be placed in a relatively uniform horizontal lift and be adequately keyed into the stripped and scarified subgrade soils. Fill materials should be free of organics, wet/frozen materials, or other deleterious materials. Engineered fill materials should consist of low to moderately plastic clays and silts, or coarse grained material such as sand and gravel. Engineered fill should have a maximum Liquid Limit no greater than 50, and a maximum Plasticity Index no greater than 30. In general, we recommend material to be used as engineered fill have a Standard Proctor maximum dry density of at least 90 pcf. Engineered soil fill should be placed in maximum loose lifts of 8 inches and compacted to at least 95 percent of the Standard Proctor (ASTM D698) maximum dry density. Soil engineered fill should be

Lejunior Tower ECS Project No. 26:3125-S1 December 29, 2017 Page 4

compacted within 3 percentage points of the optimum moisture content determined by the Standard Proctor method. Soil fill should not contain rock material greater than 4 inches in diameter.

Fill operations should be observed on a full-time basis by an experienced engineering technician to check that the required degree of compaction is being achieved. We recommend a minimum of one compaction test per 2,500 square-foot area be performed for each lift of engineered fill for structural areas, and that at least one test per lift per 100 linear feet of utility trench backfill.

Equipment Shelter Foundation

Based upon our findings, the equipment shelter may be supported by a turned-down monolithic slab-on-grade with foundation elements bearing on the undisturbed natural soils or properly-compacted engineered fill. These foundations can be designed for a maximum net allowable soil bearing pressure of up to 3,000 psf. For footings constructed in accordance with the requirements outlined in this report, maximum total settlement is expected to be less than 1 inch (plus any consolidation settlement from new fill loads). Maximum differential settlement is expected to be half the total settlement. Shallow foundations should be designed to bear at least 36 inches below the final exterior grades. The slab-on-grade may be designed using a modulus of subgrade reaction of 110 pounds per cubic inch (pci). A layer of free draining gravel may be used underlying the slab to serve as a leveling pad and provide a capillary break. All slab and foundation subgrades should be evaluated immediately prior to concrete placement by ECS to verify that the exposed subgrades are capable of satisfactorily supporting the design loads.

Self-support Tower Foundation

The proposed tower can be supported on drilled shaft (caisson). Based on previous experience with tower structures, we anticipate that wind loading, associated uplift resistance, and lateral loading may control the sizing and depth of the tower foundation. We have provided estimated soil parameters at various depths to aid in drilled shaft foundation design in the attached <u>Geotechnical Data Form</u>.

Uplift forces can be resisted by the factored weight of the shaft and the side shear along the circumference of the shaft (skin friction). The compression forces can be resisted by the side shear along the circumference of the shaft and the end bearing capacity. In determining the dimensions of the drilled shafts, we recommend that a minimum factor of safety of 1.25 with regard to the weight of the concrete should be used in conjunction with the presented allowable side shear values. For uplift and compression, we recommend no contribution to resisting loads be considered from side shear within 5 feet of the ground surface, soft clay or from potentially liquefiable zones.

Casing of the excavation is not expected, but may be required, depending on the condition of the soils and the ground water elevation at the time of construction. Once the bearing level is reached, all loose materials and any accumulated water seepage should be removed prior to placement of drilled shaft reinforcing cage and concrete. Up to 1 inch of water standing in the base of the shaft excavation is acceptable at the time concrete is placed, and an inflow rate of 1 inch per 5 minutes is also acceptable. Higher inflow rates, which could likely be encountered, may require additional control such as temporary casing or that drilled shaft concrete be placed by tremie method. The drilled shaft contractor should be prepared to handle such a condition and to ensure suitable end bearing conditions.

Lejunior Tower ECS Project No. 26:3125-S1 December 29, 2017 Page 5

The drilled shaft concrete should be placed in intimate contact with undisturbed natural soil/rock. To reduce the potential for arching, we recommend the drilled shaft concrete mix be designed for a slump of 5 to 7 inches. Provided water seepage is minimal, our experience and current research in the field indicates that the drilled shafts can be constructed by "free fall" placement of concrete without affecting the strength and quality of concrete. The concrete should "free fall" without hitting the sides of the casing or reinforcing steel. The use of a hopper or other suitable device is recommended to control concrete placement and direct it toward the center of the shaft. The placement of concrete in the cased shaft should proceed until the concrete level is above the external fluid level and should be maintained above this level throughout casing removal, if required. However, if significant seepage is present within the excavation or if slurry is used, it will be necessary to place the concrete by tremie method, and we recommend a concrete slump of 7 to 9 inches for this method of concrete placement.

The shaft design and construction procedures should be reviewed with the foundation contractor prior to the start of construction. If you desire, we would be pleased to review the plans and specifications for the project once they are completed so we may have the opportunity to comment on the impact of the soil/rock and groundwater conditions on the final design.

Selsmic Site Classification

Based on our interpretation of the International Building Code (IBC) 2012, it is our opinion that a Seismic Site Class "B" is appropriate for this site. In accordance with IBC 2012 and United States Geological Survey's (USGS) Seismic Hazard Curves and Uniform Hazard Response Spectra program, the following parameters may be used in design:

- Latitude: 36.92176, Longitude: 83.16935
- $S_s = 0.258, S_1 = 0.098$
- $S_{MS} = 0.258, S_{M1} = 0.098$
- S_{DS} = 0.172, S_{D1} = 0.066
 *Spectral accelerations were determined from USGS National Seismic Hazard Maps

General Construction Considerations

Positive site drainage should be maintained during earthwork operations, which should help maintain the integrity of the soil. Placement of fill on the near surface soils which have become wet may be difficult. When wet, these soils will degrade quickly with disturbance from contractor operations and will be difficult to stabilize for fill placement.

The surficial soils are considered moderately erodible. All erosion and sedimentation shall be controlled in accordance with Best Management Practices and current County requirements. At the appropriate time, we would be pleased to provide a proposal for NPDES monitoring and construction materials testing related services.

Lejunior Tower ECS Project No. 26:3125-S1 December 29, 2017 Page 6

CLOSING

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. ECS is not responsible for the conclusions, opinions, or recommendations made by others based on these data. No third party is given the right to rely on this report without express written permission.

The scope of services for this study does not include environmental assessment or investigation for the presence or absence of wetlands, hazardous or toxic materials in the soil or groundwater within or beyond the site studied. Any statements in this report regarding odors, staining of soils, or other unusual conditions observed are strictly for the information of our client.

We appreciate this opportunity to be of service to you during the design phase of this project. If you have any questions with regard to the information and recommendations presented in this report, please do not hesitate to contact us.

Respectfully,

ECS SOUTHEAST, LLP

Eric Slasick

Eric M. Gasiecki Geotechnical Department Manager

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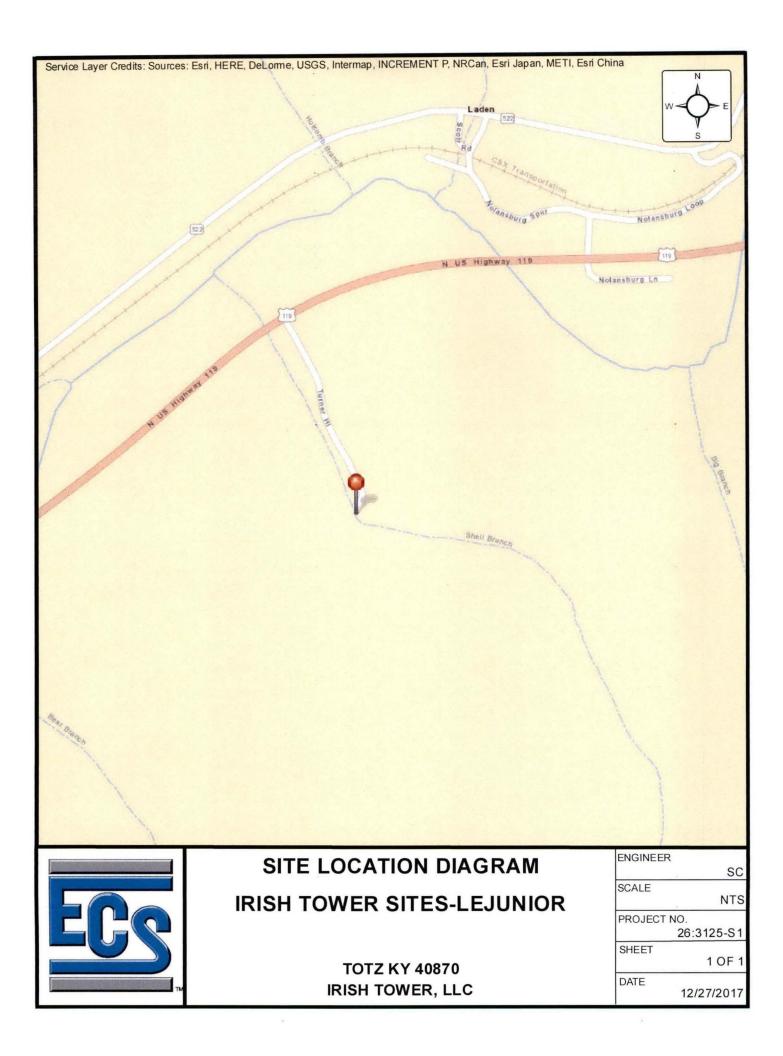
Dan Franklin Principal Reviewer

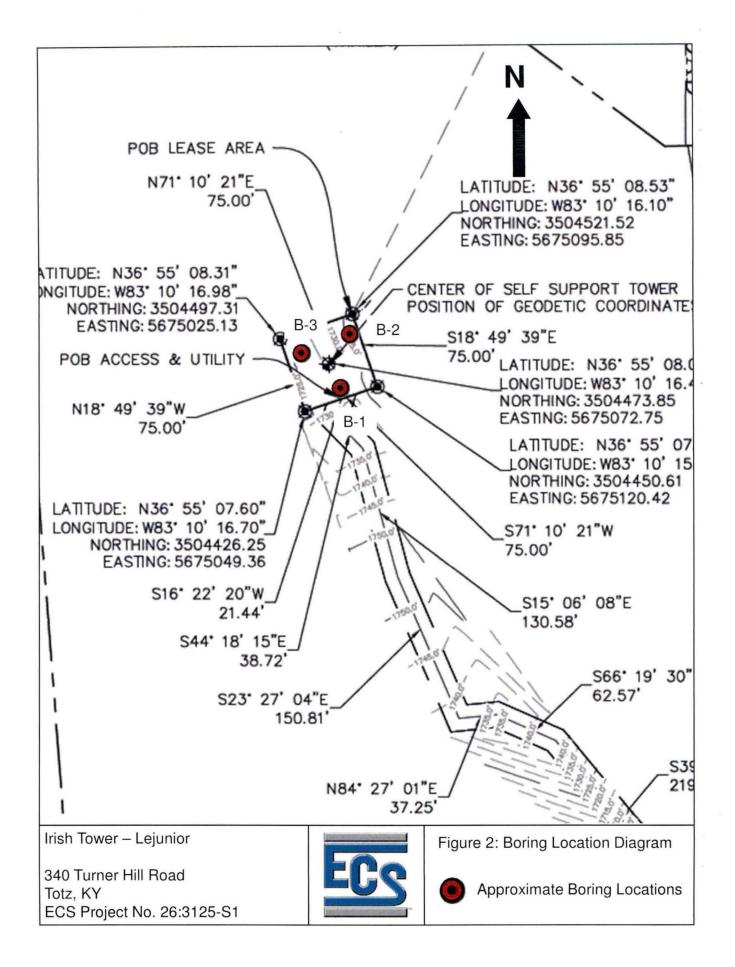
Attachments: Figure 1: Site Location Map Figure 2: Boring Location Diagrams Geotechnical Data Form SPT Boring Log (B-1 through B-3) Reference Notes for Boring Logs USGS Summary Report



Mark D. Luskin, P.E. Engineering Manager

I'D3 - Geotechnical/D3 Projects/3100-3199/26-3125 Irish Tower/26-3125-S1 Lejunior, KY/Report/26-3125-S1 Lejunior, KY.docx





GEOTECHNICAL DATA FORM

Background Information

Irish Tower, LLC Client: Project: Lejunior Location: 340 Turner Hill Road, Totz, Kentucky ECS Project No.: 26:3125-S1 Type: Height:

Sepf Support 225'+/-



Subsurface Conditions

Depth (feet)	Soil Behavior Type	Average N (spt)	Relative Density/Consistency	USCS Classificati on
0 - 10	Lean Clay	16	Very Stiff	CL
10+	Shale Bedrock	50/0		-

Estimated Soil Parameters for LPILE

Depth (feet)	LPILE Soil	γ	Su	φ'	К*	E ₅₀ *
	Туре	(pcf)	(psf)	(°)	(pci)	€ ₅₀ *
0 - 10	Very Stiff Clay	115	2000		·110	0.005
10+	Shale Bedrock	135	5000+		2000	0.001

γ= In-situ Soil Density

Su= Undrained Shear Strength

φ'= Effective Friction Angle

K= Horizontal Subgrade Reaction

*Parameters estimated from values suggested in LPILE user manual.

Foundation Recommendations

For Drilled Shaft Foundations**

Depth (ft)	Allowable End Bearing (KSF)
0 - 3	2.5
3 - 10	3
10+	10

Depth Interval	Allowable Average Side Friction (PSF)
0 - 5	
5 - 10	750
10+	2,000

**Ignore in top 5 feet in design, minimum embedment depth of 10% tower height applies.

*Paramaters were increased with embedment depth due to anticipated increase in bedrock quality

Construction Criteria

1) Proofroll site prior to construction to detect unsuitable soil near the surface.

2) Compact building pads/roadway subgrade and each 8 inch lift of approved fill to 95% maximum dry density in accordance with ASTM D698 standard proctor.

Approved fill materials are soils with less than 3% organics, less than 50 liquid limit and less than 30 plastic index.
 Foundation construction should be observed by Geotechnical Engineer.
 Drilled shaft foundations should be installed in accordance with the requirements of the Deep Foundation Institute and monitored by the Geotechnical Engineer.

CLIENT							Job #:	BORI	NG #			SHEE	г			
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Ê	N	TYPE	DIST.	RY (IN	BOTTOM OF CASIN	G 📕	LOSS OF CIRCULAT	ION 2007	EVEL	ON (F	E.	X				$-\Delta$
DEPTH (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION	ON			WATER LEVELS	ELEVATION (FT)	BLOWS/6"	⊗ s	TANDARD	PENETRA	TION	
ODEI	SAI	SAI	SAI	RE	Gravel Depth [[/"]		66	WA	ELE	BLC	:	BLOW	VS/FT		:
_	0.4	00			(CL) LEAN CL	AY WITH SAND), light brown,				7				\cap	70/0
	S-1	SS	14	14	moist, very hai	rd					23 50/2				4.5	⊗-73/8
-	S-2	SS	5	5), contains slight				50/5		-0-		50/5-0	
	0-2	33	5	5	AUGER REFL	wn, moist, very l JSAL @ 4'	hard				00/0		2.5		50/5	9
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CLIENT							Job #:	BORI	NG #		SHEET		and the second second
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340 Turner Hill Road, Totz, Harlan, KY						Y ATION					ROCK QUALI	TY DESIGNATION	& RECOVERY
											RQD% -	- — - REC%	
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H (FT)	SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	BOTTOM OF CASING		LOSS OF CIRCULAT	ION 2002	WATER LEVELS	ELEVATION (FT) BLOWS/6"	×	•	Δ
DEPTH (FT)	SAMPI	SAMPI	SAMPI	RECOV	SURFACE ELEVATION				WATE	ELEVATIO BLOWS/6"	⊗ st.	ANDARD PENETF BLOWS/FT	RATION
0					Gravel Depth [4" (CL) LEAN CLA	/ WITH SAND	D, light brown and	·///		3			-Q- 4.5
_	S-1	SS	18	18	black, moist, stiff	to very stiff				7 8	15-⊗		
_										5			
5-	S-2	SS	18	18						5 5	10-🛞		
_		_	_							4			
_	S-3	SS	18	18					*	6 5	11		
_	S-4	SS	18	18	(CL) LEAN CLAY moist, very hard	WITH SAND	D, light brown,			5 16			~~~
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340 Turner Hill Road, Totz, Harlan, KY								-O- CALIBRA	TED PENETROM	ETER TONS/FT ²			
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(FT)	TYPE	DIST	ERY (II	BOTTOM OF CASING		LOSS OF CIRC	ULATION	v ∑1007∑	LEVEL	.9	×	•	Δ
DEPTH (FT) SAMPLE NO.	SAMPLE TYPE	SAMPLE DIST. (IN)	RECOVERY (IN)	SURFACE ELEVATION					WATER LEVELS ELEVATION (FT)	BLOWS/6"	⊗ st.	ANDARD PENETR BLOWS/FT	ATION
0				Gravel Depth [4 (NO RECOVER	"] Y)			2 6		50/1			
S-1	SS	18	18	X						50/1			50/1-⊗
-				(CL) LEAN CLA	Y, trace sand,	, brown, moist	,	////		5			
5 S-2	SS	18	18	very stiff						5 12 16		28	-Q- 4.5
5				(CL) LEAN CLA	Y, trace sand,	, gray and bro	wn,	$\parallel h$		9		20	4.5
	SS	15	15	moist, very hard						25 50/3			-O- ⊗ 4.5 75/9
_				AUGER REFUS	AL @ 7.5'								
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⊈ wL DRY		١	ws 🗌		BORING STARTE	D 12/20	/17			CAVE	IN DEPTH NA		
WL(SHW)			NL(AC		BORING COMPLI	ETED 12/20	/17			НАМ	MER TYPE Auto		
₩L			Y UF	PON ETION	RIG Truck	FORE	MAN B.	Kurpi	s	DRIL	LING METHOD S	PT	



REFERENCE NOTES FOR BORING LOGS

MATERIAL ^{1,1}	2		
	ASPH	ALT	SS
21.2		ST	
	CONC	WS	
80 .0			BS
00001	GRAV	EL	PA
YXXY	TOPS	DIL	HSA
	VOID		DESIG
	BRICK		Bould
			Cobbl
00000	AGGR	EGATE BASE COURSE	Grave
R Pat a	FILL ³	MAN-PLACED SOILS	Sand:
	GW	WELL-GRADED GRAVEL gravel-sand mixtures, little or no fines	Cilt 0
	GP	POORLY-GRADED GRAVEL gravel-sand mixtures, little or no fines	Silt &
	GM	SILTY GRAVEL gravel-sand-silt mixtures	UN
1.12	GC	CLAYEY GRAVEL gravel-sand-clay mixtures	CON
	SW	WELL-GRADED SAND gravelly sand, little or no fines	
	SP	POORLY-GRADED SAND gravelly sand, little or no fines	0.2 0.5
	SM	SILTY SAND sand-silt mixtures	1.0 2.0
1.1.1.1.1	SC	CLAYEY SAND sand-clay mixtures	4.
	ML	SILT non-plastic to medium plasticity	GRAV
ΠΠ	МН	ELASTIC SILT high plasticity	
11/1	CL	LEAN CLAY low to medium plasticity	
11	СН	FAT CLAY high plasticity	
	OL	ORGANIC SILT or CLAY non-plastic to low plasticity	
100 (101) 100 100 104 100 100 100 102 100 100 100 102 100 100 100 100 100 100	он	ORGANIC SILT or CLAY high plasticity	
	РТ	PEAT highly organic soils	
1		and a second	

	DRILLING SAMPLING SYMBOLS & ABBREVIATIONS							
SS	Split Spoon Sampler	PM	Pressuremeter Test					
ST	Shelby Tube Sampler	RD	Rock Bit Drilling					
WS	Wash Sample	RC	Rock Core, NX, BX, AX					
BS	Bulk Sample of Cuttings	REC	Rock Sample Recovery %					
PA	Power Auger (no sample)	RQD	Rock Quality Designation %					
HSA	Hollow Stem Auger							

	PARTICLE SIZE IDENTIFICATION						
DESIGNA	TION	PARTICLE SIZES					
Boulders	3	12 inches (300 mm) or larger					
Cobbles		3 inches to 12 inches (75 mm to 300 mm)					
Gravel:	Coarse	3/4 inch to 3 inches (19 mm to 75 mm)					
	Fine	4.75 mm to 19 mm (No. 4 sieve to 3/4 inch)					
Sand:	Coarse	2.00 mm to 4.75 mm (No. 10 to No. 4 sieve)					
	Medium	0.425 mm to 2.00 mm (No. 40 to No. 10 sieve)					
	Fine	0.074 mm to 0.425 mm (No. 200 to No. 40 sieve)					
Silt & Clay ("Fines")		<0.074 mm (smaller than a No. 200 sieve)					

COHESIVE SILTS & CLAYS							
UNCONFINED COMPRESSIVE STRENGTH, QP ⁴	SPT ⁵ (BPF)	CONSISTENCY ⁷ (COHESIVE)					
<0.25	<3	Very Soft					
0.25 - <0.50	3 - 4	Soft					
0.50 - <1.00	5 - 8	Medium Stiff					
1.00 - <2.00	9 - 15	Stiff					
2.00 - <4.00	16 - 30	Very Stiff					
4.00 - 8.00	31 - 50	Hard					
>8.00	>50	Very Hard					

GRAVELS, SANDS & NON-COHESIVE SILTS						
SPT ⁵	DENSITY					
<5	Very Loose					
5 - 10	Loose					
11 - 30	Medium Dense					
31 - 50	Dense					
>50	Very Dense					

RELATIVE AMOUNT ⁷	COARSE GRAINED (%) ⁸	FINE GRAINED (%) ⁸
Trace	<u><</u> 5	<u>≤</u> 5
Dual Symbol (ex: SW-SM)	10	10
With	15 - 20	15 - 25
Adjective (ex: "Silty")	<u>></u> 25	≥30

WATER LEVELS ⁶		
$\overline{\Delta}$	WL	Water Level (WS)(WD)
		(WS) While Sampling
		(WD) While Drilling
$\overline{\underline{\Lambda}}$	SHW	Seasonal High WT
V	ACR	After Casing Removal
$\overline{\mathbb{V}}$	SWT	Stabilized Water Table
	DCI	Dry Cave-In
	WCI	Wet Cave-In

¹Classifications and symbols per ASTM D 2488-09 (Visual-Manual Procedure) unless noted otherwise.

²To be consistent with general practice, "POORLY GRADED" has been removed from GP, GP-GM, GP-GC, SP, SP-SM, SP-SC soil types on the boring logs.

³Non-ASTM designations are included in soil descriptions and symbols along with ASTM symbol [Ex: (SM-FILL)].

⁴Typically estimated via pocket penetrometer or Torvane shear test and expressed in tons per square foot (tsf).

⁵ Standard Penetration Test (SPT) refers to the number of hammer blows (blow count) of a 140 lb. hammer falling 30 inches on a 2 inch OD split spoon sampler required to drive the sampler 12 inches (ASTM D 1586). "N-value" is another term for "blow count" and is expressed in blows per foot (bpf).

⁶The water levels are those levels actually measured in the borehole at the times indicated by the symbol. The measurements are relatively reliable when augering, without adding fluids, in granular soils. In clay and cohesive silts, the determination of water levels may require several days for the water level to stabilize. In such cases, additional methods of measurement are generally employed.

⁷Minor deviation from ASTM D 2488-09 Note 16.

⁸Percentages are estimated to the nearest 5% per ASTM D 2488-09.

Reference Notes for Boring Logs (FINAL 10-13-2016)

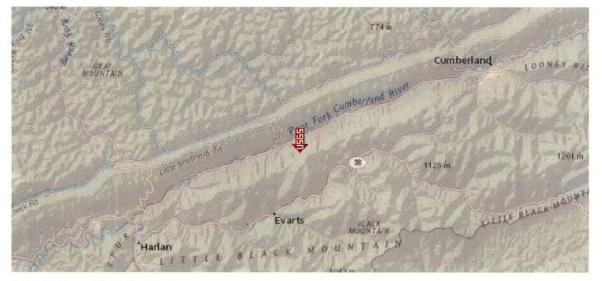
SUSGS Design Maps Summary Report

User-Specified Input

Building Code Reference Document 2012/2015 International Building Code (which utilizes USGS hazard data available in 2008) Site Coordinates 36.92176°N, 83.16935°W

Site Soil Classification . Site Class B - "Rock"

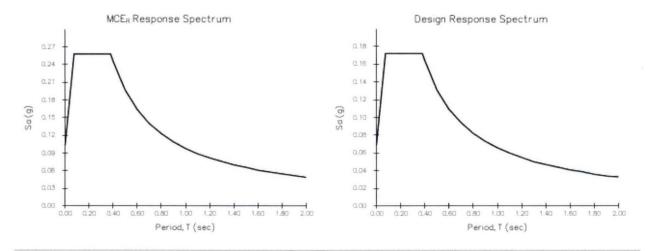
Risk Category I/II/III



USGS-Provided Output

S _s =	0.258 g	S _{MS} =	0.258 g	S _{DS} =	0.172 g
S ₁ =	0.098 g	S _{M1} =	0.098 g	S _{D1} =	0.066 g

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the data contained therein. This tool is not a substitute for technical subject-matter knowledge.

EXHIBIT H DIRECTIONS TO WCF SITE

Site Name: Lejunior Driving Directions to Proposed Tower Site

- 1. Beginning at the offices of the Harlan County Clerk located at 210 E. Central Street, Harlan, Kentucky.
- 2. Turn right onto US-421 N.
- 3. Turn right onto Turner Hill Road.
- 4. Arrive at 340 Turner Hill Road.
- 5. The site coordinates are 36°55'08.07" North latitude, 83°10'16.40" West longitude.



Prepared by: Robert W. Grant Pike Legal Group PLLC 1578 Highway 44 East, Suite 6 P.O. Box 369 Shepherdsville, KY 40165-3069 Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I COPY OF REAL ESTATE AGREEMENT

Market: Lexington Cell Site Number: KYL06086 Cell Site Name: Lejunior Fixed Asset Number: 13800705

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGRÉEMENT ("Agreement"), dated as of the latter of the signature dates below (the "Effective Date"), is entered into by William Robert Caldwell and Anita Michelle Caldwell, a married couple, having a mailing address of 340 Turner Hill Road, Totz, KY 40870 ("Landlord") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 575 Morosgo Drive NE, Atlanta, GA 30324 ("Tenant").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at 340 Turner Hill Road, Totz, in the County of Harlan, State of Kentucky (collectively, the "**Property**"). Tenant desires to use a portion of the Property in connection with its federally licensed communications business. Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. OPTION TO LEASE.

(a) Landlord grants to Tenant an option (the "**Option**") to lease a certain portion of the Property containing approximately 6,375 square feet including the air space above such ground space, as described on attached **Exhibit 1** (the "**Premises**"), for the placement of Tenant's Communication Facility.

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

(c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of **Section 1** within forty five (45) business days of the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (the **"Initial Option Term"**) and may be renewed by Tenant for an additional one (1) year (the **"Renewal Option Term"**) upon written notification to Landlord and the payment of an additional

no later than five (5) days prior to the expiration date of the Initial Option Term. The Initial Option Term and any Renewal Option Term are collectively referred to as the "**Option Term**."

(d) The Option may be sold, assigned or transferred at any time by Tenant to an Affiliate (as that term is hereinafter defined) of Tenant or to any third party agreeing to be subject to the terms hereof. Otherwise,

the Option may not be sold, assigned or transferred without the written consent of Landlord, such consent not to be unreasonably withheld, conditioned or delayed. From and after the date the Option has been sold, assigned or transferred by Tenant to an Affiliate or a third party agreeing to be subject to the terms hereof, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

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

(f) If during the Option Term, or during the term of this Agreement the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the **"Surrounding Property**,") or in the event of forcelosure, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term of this Agreement if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Usc. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.

2. PERMITTED USE. Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of its communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure, associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "Communication Facility"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "Permitted Use"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on Exhibit 1 will not be deemed to limit Tenant's Permitted Use. If Exhibit 1 includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of Exhibit 1. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of Landlord's contiguous, adjoining or Surrounding Property as described on **Exhibit 1** as may reasonably be required during construction and installation of the Communication Facility. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted Use, including the right to construct a fence around the Premises and undertake any other appropriate means to secure the Premises at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the equipment, increase the number of antennas or relocate the Communication Facility within the Premises at any time during the term of this Agreement. Tenant will be allowed to make such alterations to the Property in order to ensure that 'Tenant's Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, in a manner that requires an additional portion of the Property (the "Additional Premises") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then-current per square foot rental rate charged by Landlord to Tenant times the square footage of the Additional Premises. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

3. <u>TERM.</u>

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

(b) This Agreement will automatically renew for four (4) additional five (5) year term(s) (each five (5) year term shall be defined as an "Extension Term"), upon the same terms and conditions unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, then upon the expiration of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("Annual Term") until terminated by either party by giving to the other written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rental during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "Holdover Term"), subject to the terms and conditions of this Agreement.

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

4. <u>**RENT.</u>**</u>

(b)

(a) Commencing on the first day of the month following the date that Tenant commences construction (the "**Rent Commencement Date**"), Tenant will pay Landlord on or before the fifth (5th) day of each calendar month in advance forth above. In any partial month occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.

In year one (1) of each Extension Term, the monthly Rent will increase by

over the Rent paid during the previous five (5) year term.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

5. APPROVALS.

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

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.

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

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

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

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

(c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;

(d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or

(c) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: 5 Approvals, 6(a) Termination, 6(b) Termination, 6(c) Termination, 6(d) Termination, 11(d) Environmental, 18 Condemnation, or 19 Casualty.

7. INSURANCE.

(a) During the Term, Tenant will carry, at its own cost and expense, the following insurance: (i) workers' compensation insurance as required by law; and (ii) commercial general liability (CGL) insurance with respect to its activities on the Property, such insurance to afford protection of up to

general aggregate, based on Insurance

Services Office (ISO) Form CG 00 01 or a substitute form providing substantially equivalent coverage. Tenant's CGL insurance shall contain a provision including Landlord as an additional insured. Such additional insured coverage:

(i) shall be limited to bodily injury, property damage or personal and advertising injury caused, in whole or in part, by Tenant, its employees, agents or independent contractors;

(ii) shall not extend to claims for punitive or exemplary damages arising out of the acts or omissions of Landlord, its employees, agents or independent contractors or where such coverage is prohibited by law or to claims arising out of the gross negligence of Landlord, its employees, agents or independent contractors; and

(iii) shall not exceed Tenant's indemnification obligation under this Agreement, if any.

(b) Notwithstanding the foregoing, Tenant shall have the right to self-insure the coverages required in subsection (a). In the event Tenant elects to self-insure its obligation to include Landlord as an additional insured, the following provisions shall apply (in addition to those set forth in subsection (a)):

(i) Landlord shall promptly and no later than thirty (30) days after notice thereof provide Tenant with written notice of any claim, demand, lawsuit, or the like for which it seeks coverage pursuant to this Section and provide Tenant with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like;

(ii) Landlord shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of Tenant; and

(iii) Landlord shall fully cooperate with Tenant in the defense of the claim, demand, lawsuit, or the like.

8. <u>INTERFERENCE.</u>

(a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as those existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

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

(c) Landlord will not, nor will Landlord permit its employees, tenants, licensces, invitees, agents or independent contractors to, interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.

(d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

9. INDEMNIFICATION.

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

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

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

10. <u>WARRANTIES</u>.

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

(b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license: (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement; (iii) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises without hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants that, except as may be identified in Exhibit 11 attached to this Agreement, (i) the Property, as of the date of this Agreement, is free of hazardous substances, including asbestos-containing materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("Claims"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the Effective Date of this Agreement or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.

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

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

12. <u>ACCESS.</u> At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("Access") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in **Exhibit 1**, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 12**; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, \$500.00 per day in consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. **REMOVAL/RESTORATION.** All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. However, to the extent required by law, Tenant will remove the above-ground portions of the Communications Facility within such one hundred twenty (120) day period. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenantable condition, subject to reasonable wear and tear and damage from the elements. Landlord will be responsible for maintenance of landscaping on the Property, including any landscaping installed by Tenant as a condition of this Agreement or any required permit.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to submeter from Landlord. When submetering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Landlord agrees that it will not include a markup on the utility charges. Landlord further agrees to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within forty-five (45) days of receipt of the usage data and required forms. As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(c) Landlord hereby grants to any company providing utility or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as such companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or the service company's request, Landlord will execute a separate recordable casement evidencing this grant, at no cost to Tenant or the service company.

15. DEFAULT AND RIGHT TO CURE.

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

(b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 of this Agreement within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 of this Agreement within twenty-four (24) hours after written notice of such failure; (iii) Landlord's failure to cure an interference problem as required by Section 8 of this Agreement within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.

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

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

If to Tenant:	New Cingular Wireless PCS, LLC Attn: Network Real Estate Administration
	Re: Cell Site #: KYL06086; Cell Site Name: Lejunior (KY) Fixed Asset No.: 13800705
	575 Morosgo Drive NE
	Atlanta, GA 30324

With a copy to:

New Cingular Wireless PCS, LLC Attn.: Legal Department Re: Cell Site #: KYL06086; Cell Site Name: Lejunior (KY) Fixed Asset No.: 13800705 208 S. Akard Street Dallas, TX 75202-4206

The copy sent to the Legal Department is an administrative step which alone does not constitute legal notice.

If to Landlord:	William R. Caldwell
	340 Turner Hill Road
	Totz, KY 40870

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

18. <u>CONDEMNATION</u>. In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within forty-eight (48) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a prorata basis.

19. CASUALTY. Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within forty-eight (48) hours of the casualty or other harm. If any part of the Communication Facility or Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a prorata basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of the Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord

determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant, and Tenant decides not to terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

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

21. <u>TAXES</u>.

(a) Landlord shall be responsible for timely payment of all taxes and assessments levied upon the lands, improvements and other property of Landlord, including any such taxes that may be calculated by the taxing authority using any method, including the income method. Tenant shall be responsible for any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

(b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leaschold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant within such time period, Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment from Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as Tenant may deem appropriate. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

(d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

(c) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(c) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).

(f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17 and, in addition, of a copy of any such notices shall be sent to the following address. Promptly after the Effective Date of this Agreement, Landlord shall provide the following address to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax addresses changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

New Cingular Wireless PCS, LLC Attn: Network Real Estate Administration -- Taxes Re: Cell Site #: KYL06086; Cell Site Name: Lejunior (**KY**) Fixed Asset No: 13800705 575 Morosgo Drive NE Atlanta, GA 30324

(g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY

(a) Landlord shall not be prohibited from the selling, leasing or use of any of the Property or the Surrounding Property except as provided below.

(b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this subsection (b) to Tenant. Until Tenant receives all such documents, Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement.

- i. Old deed to Property
- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Copy of current Tax Bill
- v. New IRS Form W-9
- vi. Completed and Signed AT&T Payment Direction Form
- vii. Full contact information for new Landlord including phone number(s)

(c) Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communications facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communications facility or equipment. (d) The provisions of this Section shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. **RENTAL STREAM OFFER.** If at any time after the date of this Agreement, Landlord receives a bona fide written offer from a third party seeking an assignment or transfer of Rent payments associated with this Agreement ("**Rental Stream Offer**"), Landlord shall immediately furnish Tenant with a copy of the Rental Stream Offer. Tenant shall have the right within twenty (20) days after it receives such copy to match the Rental Stream Offer and agree in writing to match the terms of the Rental Stream Offer. Such writing shall be in the form of a contract substantially similar to the Rental Stream Offer. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the twenty (20) day period, Landlord may assign the right to receive Rent payments pursuant to the Rental Stream Offer, subject to the terms of this Agreement. If Landlord attempts to assign or transfer Rent payments without complying with this Section, the assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section.

24. MISCELLANEOUS.

(a) **Amendment/Waiver.** This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.

(b) **Memorandum/Short Form Lease.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum or Short Form of Lease substantially in the form attached as **Exhibit 24b**. Either party may record this Memorandum or Short Form of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term of this Agreement, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum or Short Form of Lease.

(c) **Limitation of Liability.** Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement. Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

(d) **Compliance with Law.** Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations ("Laws") applicable to Tenant's use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord's ownership and use of the Property and any improvements on the Property.

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

(f) Entire Agreement. This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

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

(h) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in this Agreement or as same may be duplicative, such consent will not be unreasonably

withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

(i) Affiliates. All references to "Tenant" shall be deemed to include any Affiliate of New Cingular Wireless PCS, LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant pursuant to this Agreement. "Affiliate" means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.

(j) **Survival.** Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.

(k) W-9. As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including, any change in Landlord's name or address.

(1) **Execution/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.

(m) Attorneys' Fees. In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including without limitation, reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.

(n) **WAIVER OF JURY TRIAL.** EACH PARTY, TO THE EXTENT PERMITTED BY LAW, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING UNDER ANY THEORY OF LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR THE TRANSACTIONS IT CONTEMPLATES.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF, the parties have executed this Memorandum of Lease as of the day and year first above written.

"LANDLORD"

William Robert Caldwell

By: William Probert (Iduell Print Name: William Achort Cold well Its: Owner Date: _____ 11-3-16

Anita Michelle Caldwell By: <u>Diniter Michelle (ald</u> Print Name: Forth Michelle (a

Its: Owner 11-3 106 Date:

LANDLORD ACKNOWLEDGMENT

Kentucky STATE OF) ss: Hora ban COUNTY OF ____

On the 3^{t^2} day of h_{11} en by h_{12} , 2016 before me, personally appeared William Robert Caldwell and Anita Michelle Caldwell, who acknowledged under oath, that he/she is the person/officer named in the within instrument, and that he/she executed the same in his/her stated capacity as the voluntary act and deed of Landlord for the purposes therein contained.

Jadytuluk 355 BOTTD Notary Public:

My Commission Expires: 571-2020

"TENANT"

New Cingular Wireless PCS, LLC, a Delaware limited liability company By: AT&T Mobility Corporation

Its: Manager By: ' Print Name: Bryan Coleman

Its: A ea Manager – TN/KY Date,

TENANT ACKNOWLEDGMENT

STATE OF ALABAMA

COUNTY OF JEFFERSON

)) ss:)

On the 12th day of JULY On the $\cancel{2^{n}}$ day of $\boxed{30 + \cancel{2}}$, 2017, before me personally appeared Bryan Coleman, and acknowledged under oath that he is the Area Manager – TN/KY of AT&T Mobility Corporation, the Manager of New Cingular Wireless PCS, LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.

Notary Public: <u>Lisa Henderson</u> My Commission Expires: <u>7/9/2018</u>

exp = 19/2013

EXHIBIT 1

DESCRIPTION OF PREMISES

to the Option and Lease Agreement dated ______, 2016, by and between William Robert Caldwell and Anita Michelle Caldwell, a married couple, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows: DB 386, PG 390

Reginning in the southeast corner at a steel pin near a large Beech tree, marked with a "1" in blue paint, where Tarner, Metcalf and Mountain I and Co. properties meet

Ibence in a Westward direction in a steel pin invide as 87 Mapie izer, both marked with red paint and flagging, in the center of ridgeline, continuing in a Westward direction flown the biliside to another steel pin, painted while, on the burder of 4 arner and Mountain Land CD, properties, continuing still in a Westward direction to a steel pin marked with white paint and flagging beside a large Poplar izer, marked with red with red white paint heyond the Bear Brunch Creok where Turner. Mountain Land Co, and Virgit Everythe properties most

Theore is a Northward direction along surveyed line on East side of the Virgil Everyole property, to a steel pin of the Turner, Everyole and Oceana Mende corner.

Thence in an Enstward direction along the Mende property line to a large Poplar tree, marked with red and white paint and fingging, at the Turner, Mende and Huward Wayne Skidmore corner.

Thence in a southcastward direction, running with the Skidmore property line, but separated by a road, lending to Meade property with ensembed for Meade, Turner and skidmore properties, to a steel pin at the West side of a gate at the end of Turner Hill Read.

The yet Eastmand to another steel pin at the East side of the gate

Thence is a Northward direction, alongside Turner Hill Rd. to a steel pin at the manth of the Shell Branch Creek where Turner and Reid properties meet.

Thence is a Southeastward direction, along Reid property line, to a steel pin at the Tarner. Reid and Metcalf corner.

Thence is a Southward direction, along survey ed line on West side of Meterif property, back to the point of beginning, containing 35 acres more or less.

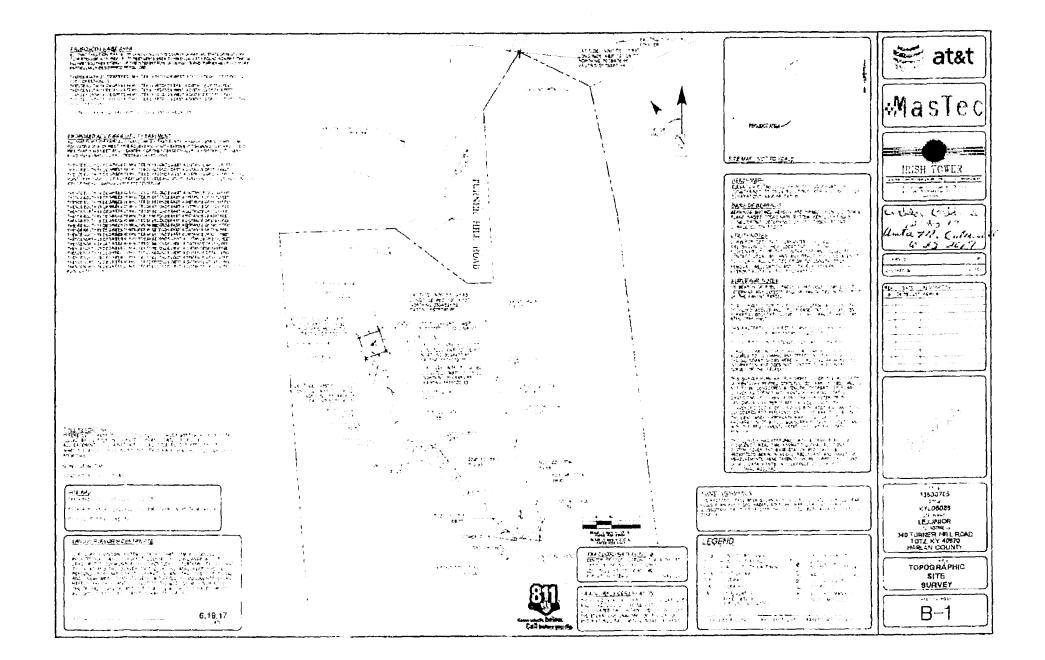


EXHIBIT 11

ENVIRONMENTAL DISCLOSURE

Landlord represents and warrants that the Property, as of the date of this Agreement, is free of hazardous substances except as follows:

1. NONE.

EXHIBIT 12

STANDARD ACCESS LETTER

[FOLLOWS ON NEXT PAGE]

-

[Landlord Letterhead]

DATE

Building Staff / Security Staff Landlord, Lessee, Licensee Street Address City, State, Zip

Re: Authorized Access granted to AT&T

Dear Building and Security Staff,

Please be advised that we have signed a lease with AT&T permitting AT&T to install, operate and maintain telecommunications equipment at the property. The terms of the lease grant AT&T and its representatives, employees, agents and subcontractors ("representatives") 24 hour per day, 7 day per week access to the leased area.

To avoid impact on telephone service during the day, AT&T representatives may be seeking access to the property outside of normal business hours. AT&T representatives have been instructed to keep noise levels at a minimum during their visit.

Please grant the bearer of a copy of this letter access to the property and to leased area. Thank you for your assistance.

Landlord Signature

MEMORANDUM OF LEASE

Prepared by: Cody Knox

Integrisite 214 Expo Circle, Suite 4 West Monroe, LA, 71292

Return to:

New Cingular Wireless PCS, LLC Attn: Network Real Estate Administration 575 Morosgo Drive NE Atlanta, GA 30324

Re: Cell Site #: KYL06086; Cell Site Name: Lejunior Fixed Asset #: 13800705 State: Kentucky County: Harlan

MEMORANDUM OF LEASE

This Memorandum of Lease is entered into on this <u>12</u> day of <u>44444</u>, 2016, by and between William Robert Caldwell and Anita Michelle Caldwell, a married couple, having a mailing address of 340 Turner Hill Road, Totz, KY 40870 (hereinafter referred to as "Landlord") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 575 Morosgo Drive NE, Atlanta, GA 30324 (hereinafter referred to as "Tenant").

- 1. Landlord and Tenant entered into a certain Option and Lease Agreement ("Agreement") on the <u>12</u> day of <u>12</u>, 2016, for the purpose of installing, operating and maintaining a communications tacility and other improvements. All of the foregoing is set forth in the Agreement.
- 2. The initial lease term will be five (5) years commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of its option, with four (4) successive five (5) year options to renew.
- 3. The portion of the land being leased to Tenant and associated easements are described in Exhibit 1 annexed hereto.

4. This Memorandum of Lease is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed. In the event of a conflict between the provisions of this Memorandum of Lease and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

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

"LANDLORD"

William Robert Caldwell

By: William Rabert Caldwell Print Name: William Rabert Coklere II Its: Owner 1-3-16 Date:

Anita Michelle Caldwell

By: Print Name: Its: Owner Date: 11-3-20110

LANDLORD ACKNOWLEDGMENT

STATE OF	Kentucky)
COUNTY OF _	Hanlow) ss:)
	a 1	

On the $3 \frac{\beta \omega}{\beta}$ day of $\frac{\beta \omega}{\beta}$ 2016 before me, personally appeared William Robert Caldwell and Anita Michelle Caldwell, who acknowledged under oath, that he/she/they is/are the person/officer named in the within instrument, and that he/she/they executed the same in his/her/their stated capacity as the voluntary act and deed of the Landlord for the purposes therein contained.

C: ______ Notary Public: My Commission Expires: <u>5</u>-1

"TENANT"

New Cingular Wireless PCS, LLC, a Delaware limited liability company By: AT&T Mobility Corporation

Its: Manager By:

Print Name: Bryan Coleman Its: Area Manager TN/KY Date: 7/12/7017 Date:

TENANT ACKNOWLEDGMENT

)) ss:

STATE OF ALABAMA

COUNTY OF JEFFERSON) On the 12th day of JULY ..., 2017, before me personally appeared Bryan Coleman, and acknowledged under oath that he is the Area Manager - TN/KY of AT&T Mobility Corporation, the Manager of New Cingular Wireless PCS, LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.

Notary Public: Lisa Henderson My Commission Expires: 7/9/2018

EXHIBIT 1

DESCRIPTION OF PREMISES

to the Memorandum of Lease dated <u>fully</u> 12, 2016, by and between William Robert Caldwell and Anita Michelle Caldwell, a married couple, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows: DB 386, PG 390

Beginning in the southeast orner at a steel pin near a large Brech tree, marked with a "1" in blue paint, where Turner. Metcall and Mountain Land Co. properties meet.

Thence in a Westward direction to a steel pin beside an 8" Maple Free, both marked with red paint and flagging, in the center of ridgeline, continuing in a Westward direction down the fillwide to another steel pin, painted white, on the border of Furner and Mountain Land Co. properties, continuing still in a Westward direction to a steel pin marked with white paint and flagging beside a large Poplar tree, marked with red and white paint. heyand the Bear Branch Creek where Turner. Mountain Land Co. and Vitgil Eversole properties much.

Theore is a Northward direction along surveyed line on Fast side of the Nirgil Excession property, to a swell pix at the Turner, Everyale and Oceana Meade corner.

these in an Eastward direction along the Meade property line to a large Poplar tree, marked with red and white paint and flagging, at the Turner. Meade and Howard Wayne Skidmore curner.

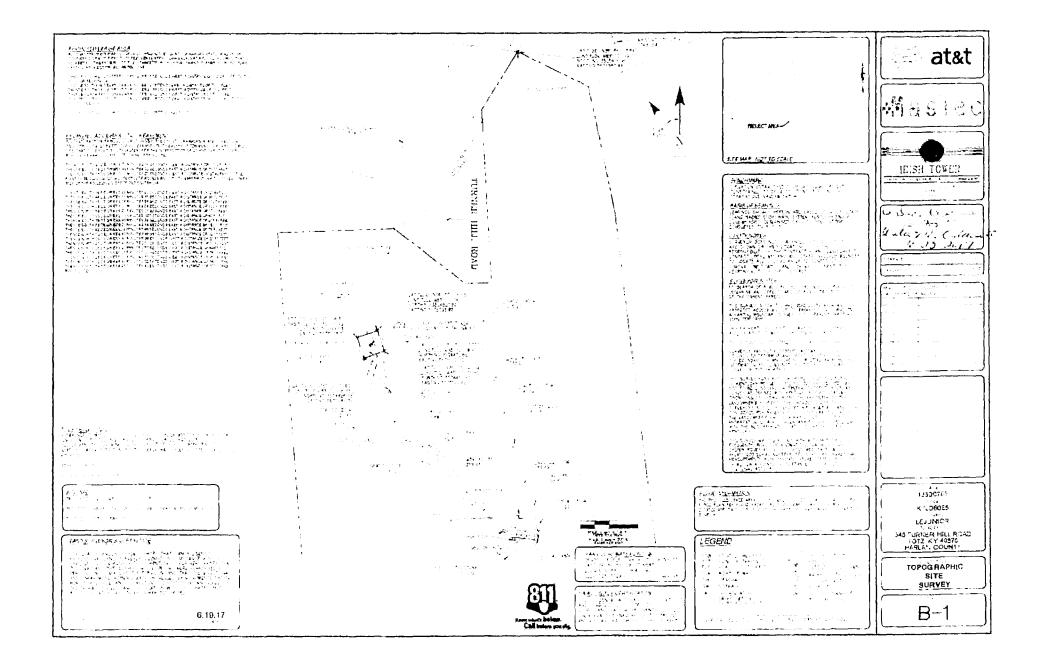
Theace in a southeastward direction, running with the Skidmore property line, but separated by a road, leading to Mende property with easement for Mende, Turner and Skidmore properties, to a steel pip at the West side of a gate at the end of Turner Hill Road.

Thysic Easter and to another steel pin at the Fast side of the gate

Thence in a Northward direction, alongside Turner Hill Rd, to a steel pin at the mouth of the Shell Branch Creek where Turner and Reid properties neet.

Thence in a Southeastward direction, along Reid property line, to a steel pin at the Turner, Reid and Metcalf corner.

Thence in a Southward direction, along surveyed line on West side of Metcall property, back to the point of beginning, containing 35 acres more or less.



Caldwell SNDA Page 1 of 7

Prepared by and Return to; New Cingular Wireless PCS, LLC Attn: Real Estate Administration 575 Morosgo Drive NE Atlanta, GA 30324

Cell Site No: KYL06086 Cell Site Name: <u>Lejunior</u> Fixed Asset Number: <u>13800705</u> State: KY County: Harlan

SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT AGREEMENT

THIS SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT AGREEMENT ("Agreement"), dated as of the date below, between Vanderbilt Mortgage and Finance, Inc., having its principal office at 500 Alcoa Trail, Maryville, TN 37804, (hereinafter called "Mortgagee") and William and Anita Caldwell, a married couple having its principal office/residing at 340 Turner Hill Rd, Totz, KY 40870 ("Landlord"), and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 575 Morosgo Drive NE, Atlanta, GA 30324 12555 Cingular Way, Suite 1300, Alpharetta, GA 30004 ("Tenant").

WITNESSETH:

WHEREAS, Tenant has entered into a certain lease dated ______, 2017, (the "Lease") with Landlord, covering property more fully described in Exhibit 1 attached hereto and made a part hereof (the "Premises"); and

WHEREAS, Landlord has given to Mortgagee a mortgage (the "Mortgage") upon property having a street address of 340 Turner Hill Rd, Totz, KY 40870, being identified in Book 319, Page 241 in the records of Harlan County, State of Kentucky ("Property"), a part of which Property contains the Premises; and

WHEREAS, the Mortgage on the Property is in the original principal sum of Seventy-Nine Thousand Six Hundred Ninety Dollars and Forty Cents (\$79,690.40), which Mortgage has been recorded in the appropriate public office in and for Harlan County, Kentucky ("Mortgage"); and

WHEREAS, Tenant desires to be assured of continued occupancy of the Premises under the terms of the Lease and subject to the terms of this Agreement.

NOW, THEREFORE, in consideration of the mutual promises, covenants and agreements herein contained, the receipt and sufficiency of which are hereby acknowledged, the parties hereto, intending to be legally bound hereby, agree as follows:

1. So long as this Agreement will remain in full force and effect, the Lease is and will be subject and subordinate to the lien and effect of the Mortgage insofar as it affects the real property and fixtures of which the Premises forms a part (but not Tenant's trade fixtures and other personal property), and to all renewals, modifications, consolidations, replacements and extensions thereof, to the full extent of the principal sum secured thereby and interest thereon, with the same force and effect as if the Mortgage had been executed, delivered, and duly recorded among the above-mentioned public records, prior to the execution and delivery of the Lease.

2. In the event Mortgagee takes possession of the Premises as mortgagee-in-possession, including but not limited to, by deed in lieu of foreclosure or foreclosure of the Mortgage, Mortgagee agrees not to affect or disturb Tenant's right to possession of the Premises and any of Tenant's other rights under the Lease in the exercise of Mortgagee's rights so long as Tenant is not then in default, after applicable notice and/or grace periods, under any of the terms, covenants, or conditions of the Lease.

3. In the event that Mortgagee succeeds to the interest of Landlord or other landlord under the Lease and/or to title to the Premises, Mortgagee and Tenant hereby agree to be bound to one another under all of the terms, covenants and conditions of the Lease; accordingly, from and after such event, Mortgagee and Tenant will have the same remedies against one another for the breach of an agreement contained in the Lease as Tenant and Landlord had before Mortgagee succeeded to the interest of Landlord; provided, however, that Mortgagee will not be:

personally liable for any act or omission of any prior landlord (including Landlord); or

(b) bound by any rent or additional rent which Tenant might have paid for more than the payment period as set forth under the Lease (one month, year, etc.) in advance to any prior landlord (including Landlord).

4. In the event that Mortgagee or anyone else acquires title to or the right to possession of the Premises upon the foreclosure of the Mortgage, or upon the sale of the Premises by Mortgagee or its successors or assigns after foreclosure or acquisition of title in lieu thereof or otherwise, Tenant agrees not to seek to terminate the Lease by reason thereof, but will remain bound unto the new owner so long as the new owner is bound to Tenant (subject to Section 3 above) under all of the terms, covenants and conditions of the Lease.

5. Mortgagee understands, acknowledges and agrees that notwithstanding anything to the contrary contained in the Mortgage and/or any related financing documents, including, without limitation, any UCC-1 financing statements, Mortgagee will acquire no interest in any furniture, equipment, trade fixtures and/or other property installed by Tenant on the Property. Mortgagee hereby expressly waives any interest which Mortgagee may have or acquire with respect to such furniture, equipment, trade fixtures and/or other property of Tenant now, or hereafter, located on or affixed to the Property or any portion thereof and Mortgagee hereby agrees that same do not constitute realty regardless of the manner in which same are attached or affixed to the Property.

6. This Agreement will be binding upon and will extend to and benefit the successors and assigns of the parties hereto and to any assignees or subtenants of Tenant which are permitted under the Lease. The term "Mortgagee", when used in this Agreement will be deemed to include any person or entity which acquires title to or the right to possession of the Premises by, through or under Mortgagee and/or the Mortgage, whether directly or indirectly.

[SIGNATURES AND ACKNOWLEDGMENTS APPEAR ON THE NEXT PAGES] [SIGNATURES APPEAR ON THE NEXT PAGE]

IN WITNESS WHEREOF, the undersigned has caused this Agreement to be executed as of the last signature date below.

LANDLORD: William Caldwell a married man

William Caldwell By: Name: William Calo Title: owner Date:

LANDLORD: Anita Caldwell a married woman

Anita Caldwell By: Name: (Title: owner 1-11-Date:

LANDLORD ACKNOWLEDGMENT

christelug STATE OF) ss: COUNTY OF

Mar Sail Hotens 535POT NUT Notary Public: My Commission Expires: <u>5-11-21</u>20

TENANT:

New Cingular Wireless PCS, LLC, a Delaware limited liability company By: AT&T Mobility Corporation Its: Manager

By: Name: Bryan Coleman Area Manager - TN/KY Title: Date:

TENANT ACKNOWLEDGMENT

STATE OF ALABAMA

)) ss:)

COUNTY OF JEFFERSON) On the $\cancel{2^{++}}$ day of $\underbrace{J \cup \cancel{2^{+}}}_{}$, 2017, before me personally appeared Bryan Coleman, who acknowledged under oath that he is the Area Manager – TN/KY of AT&T Mobility Corporation, the Manager of New Cingular Wireless PCS, LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.

Lisa Henderson Notary Public: Lisa Henderson Simin Expires: 7/9/2018

MORTGAGEE:

Va	nderbilt Mortgage and Fi	nance, Inc
By: Name:	Maria Maria	\geq
Title: Date:	Hufterized agen!	

MORTGAGEE ACKNOWLEDGMENT

STATE OF ______) COUNTY OF _______) ss:

On the $\frac{12^{6}}{12^{6}}$ day of $\frac{1119}{1119}$, 2017 before me, personally appeared <u>Refer + 11641</u>, who acknowledged under oath, that he/she is the person/officer named in the within instrument, and that he/she executed the same in his/her stated capacity as the voluntary act and deed of the Mortgagee for the purposes therein contained.

the state	Relay of	NULSA ROBIN
Notary Public:	Tricks / Charles	STATE STATE
My Commission E	Expires:	
		TENNESSEE +

EXHIBIT 1

DESCRIPTION OF PREMISES

The Property is legally described as follows:

He givining in the southeast corner at a steel pin near a farge Beech tree, marked with a "1" in blue paint, where Turner, Metcalf and Mountain 1 and Co. properties meet.

Thence in a Westward direction to a steel pin beside an 6" Maple tree, both marked with red paint and flagging, in the center of ridgeline, continuing in a Westward direction ilown the blickle to another speel pin, painted white, on the border of Farner and Mountain I and Co. properties, continuing still in a Westward direction to a steel pin marked with white paint and flagging beside a large Poplar tree, marked with red and white paint, hervard the Bear Branch Creek where Forner, Mountain Land Co. and Virgit Eversale properties mets.

Then is in a Northward direction slong surveyed line on Fast side of the Mirgh Everyofe, property, to a steel por at the furner, Everyole and Oceana Meade corner.

Thence in an Eastward direction along the Meude property line to a large Poplar tree, marked with red and white paint and flagging, at the Turner, Meade and Howard Wayne Skidmore corner.

The sector a southeastward direction, running with the Skillmore property line, but separated by a road, leading to Meade property with ememory for Manda, Farmer and Skillmore properties, to a steel pin at the West side of a gate at the end of Turger Hill R ad.

"home bases and to another steel pip at the Fast side of the gate

Thence in a Northward direction, alongside Turner Hill Rd, to a stort pin at the mouth of the Shell Branch Creek where Turner and Reld properties mere.

Hunke in a Southeastward direction, along Reid property line, to a steel pin at the Turner, Heid and Metcall corner.

Theore in a Nouthward direction, along surveyed line on West side of Metcall property. back to the point of beginning, containing 35 acres more or less.

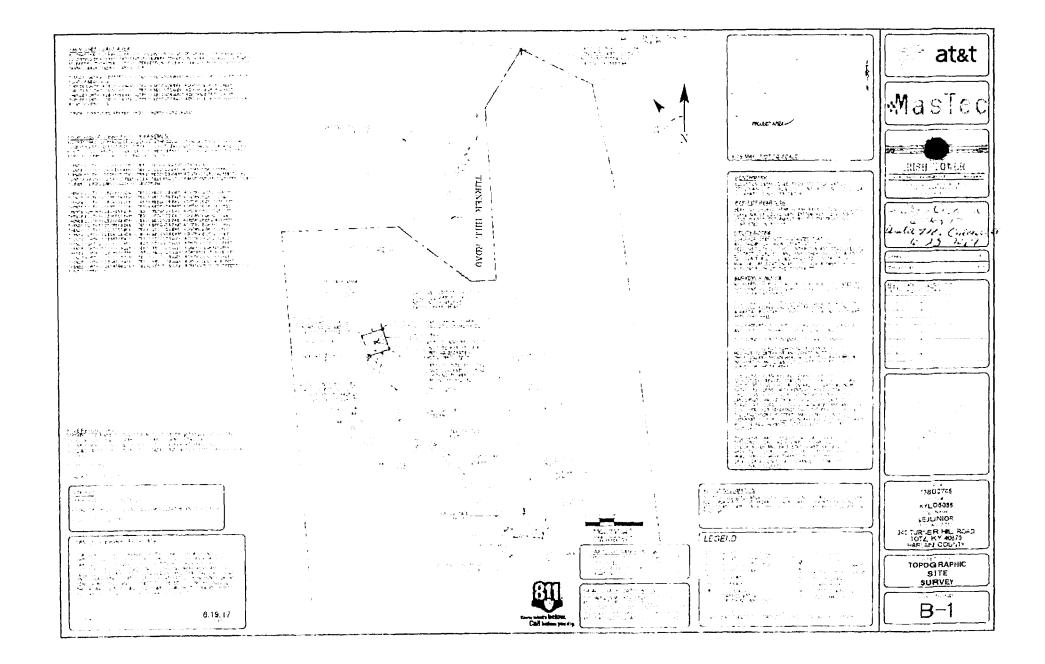


EXHIBIT J NOTIFICATION LISTING

NOTIFICATION LISTING SITE NAME: LEJUNIOR

CALDWELL WILLIAM R & ANITA MICHELLE 340 TURNER HILL RD TOTZ, KY 40870

EVERSOLE VIRGIL -HEIRS-P O BOX 747 HARLAN, KY 40831

FARLEY CHARLES & KANDACE FIELDS 336 TURNER HILL RD TOTZ, KY 40870

SKIDMORE HOWARD WAYNE & LISA 318 TURNER HILL RD TOTZ, KY 40870

DAY DARLAS 4 VALLEY DR HARLAN, KY 40831

TURNER SAMANTHA JO P O BOX 602 LEWISBURG, KY 42256

REID JOYCE 86 TURNER HILL RD TOTZ, KY 40870

WILSON CLAUDE C & JANET J PO BOX 1447 HARLAN, KY 40831

BROWNING DALE P O BOX 213 HARLAN, KY 40831 SPIKE CONSTRUCTION CO P O BOX 1254 HARLAN, KY 40831

METCALFE SHIRLEY ETAL C/O LOIETA METCALFE PAGE 6773 HWY 522 TOTZ, KY 40870

MOUNTAIN LAND CO GEN DEL GRAYS KNOB, KY 40829 EXHIBIT K COPY OF PROPERTY OWNER NOTIFICATION



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

Notice of Proposed Construction of Wireless Communications Facility Site Name: Lejunior

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 340 Turner Hill Road, Totz, Kentucky (36°55'08.07" North latitude, 83°10'16.40" West longitude). The proposed facility will include a 255-foot tall antenna tower, plus a 15-foot lightning arrestor and 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 <u>or</u> 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 2018-00078 in any correspondence sent in connection with this matter.

In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service to homes and businesses in the area. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies.

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 toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely, David A. Pike Attorney for Applicant

enclosure

Site Name: Lejunior Driving Directions to Proposed Tower Site

- 1. Beginning at the offices of the Harlan County Clerk located at 210 E. Central Street, Harlan, Kentucky.
- 2. Turn right onto US-421 N.
- 3. Turn right onto Turner Hill Road.
- 4. Arrive at 340 Turner Hill Road.
- 5. The site coordinates are 36°55'08.07" North latitude, 83°10'16.40" West longitude.



Prepared by: Robert W. Grant Pike Legal Group PLLC 1578 Highway 44 East, Suite 6 P.O. Box 369 Shepherdsville, KY 40165-3069 Telephone: 502-955-4400 or 800-516-4293

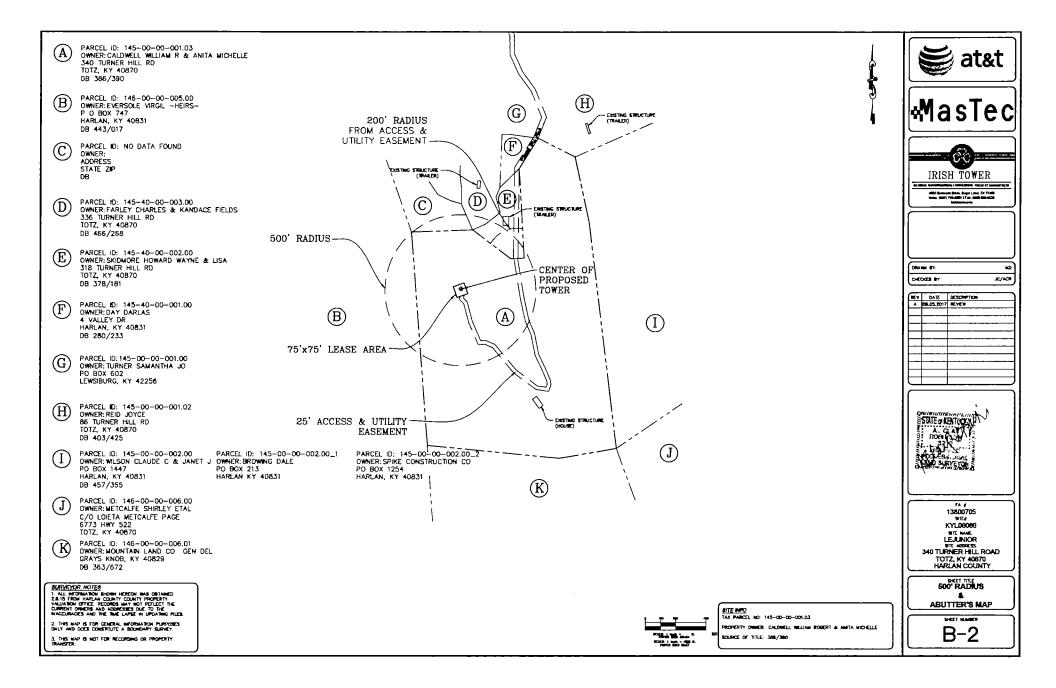


EXHIBIT L COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



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

VIA CERTIFIED MAIL

Hon. Dan Mosley County Judge Executive PO Box 956 Harlan, KY 40831

RE: Notice of Proposal to Construct Wireless Communications Facility Kentucky Public Service Commission Docket No. 2018-00078 Site Name: Lejunior

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 340 Turner Hill Road, Totz, Kentucky (36°55'08.07" North latitude, 83°10'16.40" West longitude). The proposed facility will include a 255-foot tall antenna tower, plus a 15-foot lightning arrestor and 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 2018-00078 in any correspondence sent in connection with this matter.

In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service to homes and businesses in the area. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies.

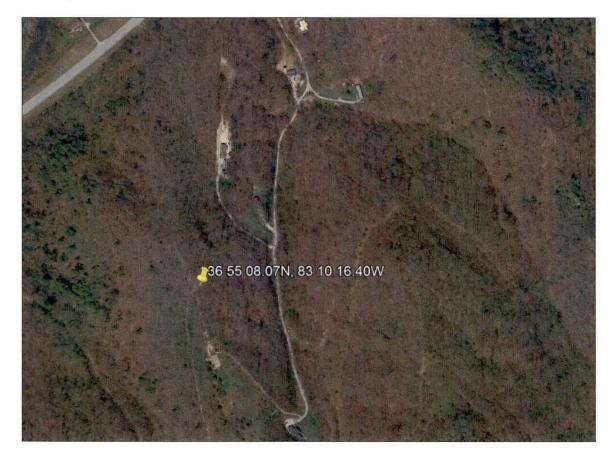
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area.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

Sincerely, David A. Pike Attorney for Applicant

enclosures

Site Name: Lejunior Driving Directions to Proposed Tower Site

- 1. Beginning at the offices of the Harlan County Clerk located at 210 E. Central Street, Harlan, Kentucky.
- 2. Turn right onto US-421 N.
- 3. Turn right onto Turner Hill Road.
- 4. Arrive at 340 Turner Hill Road.
- 5. The site coordinates are 36°55'08.07" North latitude, 83°10'16.40" West longitude.



Prepared by: Robert W. Grant Pike Legal Group PLLC 1578 Highway 44 East, Suite 6 P.O. Box 369 Shepherdsville, KY 40165-3069 Telephone: 502-955-4400 or 800-516-4293

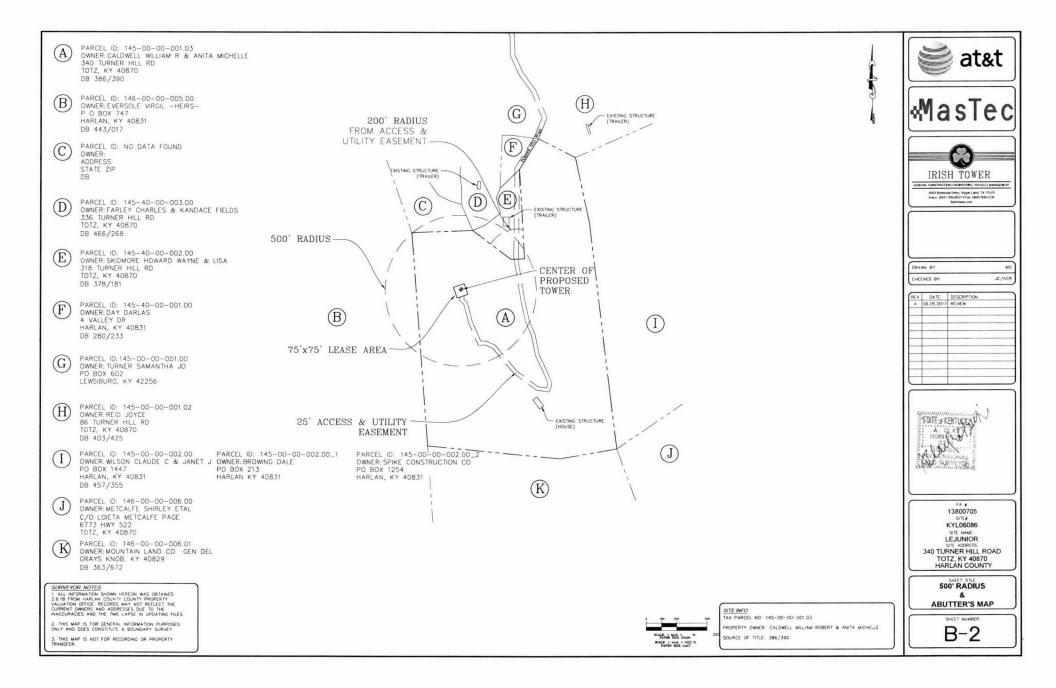


EXHIBIT M COPY OF POSTED NOTICES AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: LEJUNIOR 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.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00078 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility proposes to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00078 in your correspondence.



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

VIA TELEFAX: 606-573-0042

Harlan Daily Enterprise PO Box 1155 Harlan, KY 40831

RE: Legal Notice Advertisement Site Name: Lejunior

Dear Harlan Daily Enterprise:

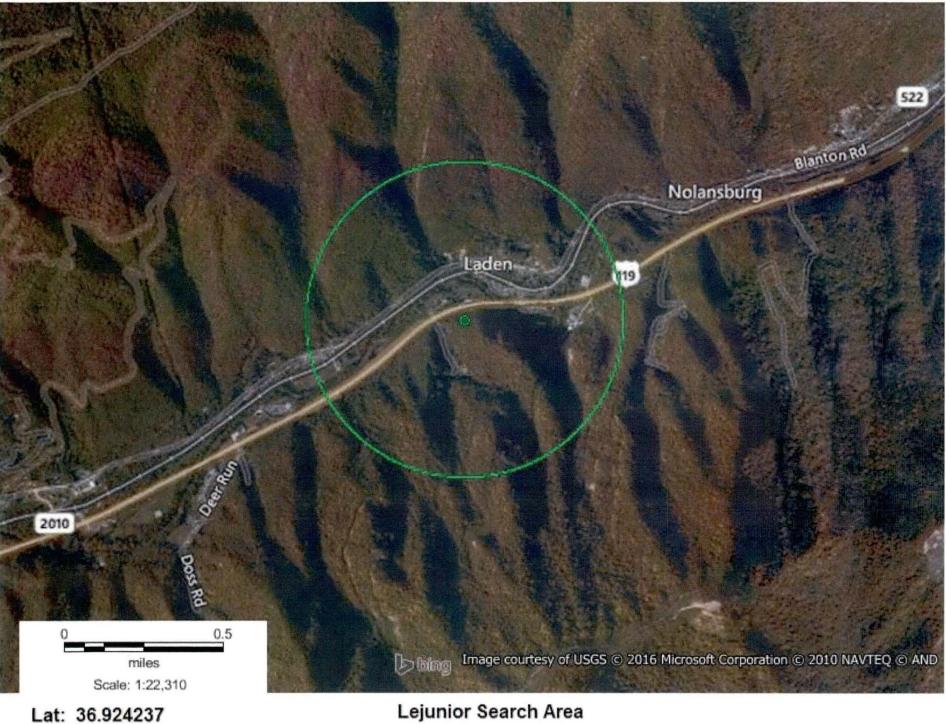
Please publish the following legal notice advertisement in the next edition of *The Harlan Daily Enterprise*:

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 340 Turner Hill Road, Totz, Kentucky (36°55'08.07" North latitude, 83°10'16.40" West longitude). 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 2018-00078 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tear sheet copy, affidavit of publication, and invoice to Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely, Robert W. Grant Pike Legal Group, PLLC EXHIBIT N COPY OF RADIO FREQUENCY DESIGN SEARCH AREA



Lon: -83.168748 Radius: .5 miles Lejunior Search Area