



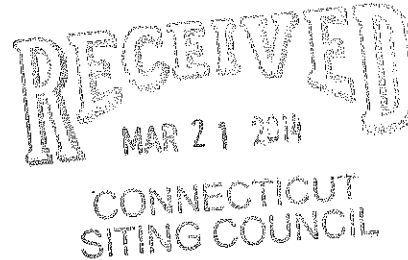
Centek Engineering, Inc.  
3-2 North Branford Road  
Branford, Connecticut 06405  
Phone: (203) 488-0580  
Fax: (203) 488-8587

Steven L. Levine  
Real Estate Consultant

HAND DELIVERED

March 21, 2014

Attorney Melanie Bachman  
Acting Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051



Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 497 Old Post Road (owner, Old Post Road Holdings)

Dear Ms. Bachman:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") and/or Long Term Evolution ("LTE") capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile ("GSM") communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

LTE is a high-performance air interface for cellular mobile communications. It is designed to increase the capacity and speed of mobile telephone networks.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. Moreover, LTE will utilize additional radio frequencies newly-licensed by the FCC for cellular mobile communications. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, AT&T respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 830-0380 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine  
Real Estate Consultant

cc: Steven Werbner, Town Manager, Town of Tolland

Attachments

**NEW CINGULAR WIRELESS  
Equipment Modification**

497 Old Post Road  
Site Number 1047  
Exempt Modifications approved 7/99, 9/02, 5/12

**Tower Owner/Manager:** Old Post Road Holdings

**Lease Area:** The attached excerpts from AT&T's lease for the property show an 11 ft x 18 ft equipment room interior to the landlord's building as AT&T's lease area. Since all proposed equipment modifications will take place either on the tower structure or within AT&T's equipment room, the proposed changes will not extend the site boundaries.

**Equipment Configuration:** Guyed Lattice Tower

**Current and/or Approved:** Two AM-X-CD-16-65-00 antennas @ 126 ft c.l.  
Three SBNH-1D6565C antennas @ 126 ft c.l.  
Two TMA's @ 126 ft  
Six remote radio heads @ 126 ft  
One surge arrestor @ 126 ft  
Twelve 9/8 inch coax  
Six DC power lines and one fiber line  
Equipment Room -- Interior Build-out

**Planned Modifications:** Remove all existing antennas and associated equipment.  
Remove existing antenna mounts.  
Remove three lines of 7/8 inch coax.  
Install two lines 1¼ inch coax.  
Install three Site Pro CWT01 WiMAX Stand-Off Mounts.  
Reinstall two AM-X-CD-16-65-00 antennas @ 126 ft c.l.  
Reinstall three SBNH-1D6565C antennas @ 126 ft c.l.  
Install one additional SBNH-1D6565C antennas @ 126 ft c.l.  
Reinstall three TMA's @ 126 ft.  
Install one additional TMA @ 126 ft.  
Reinstall six remote radio heads @ 126 ft.  
Reinstall one surge arrestor @ 126 ft.

### Power Density:

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 89.2 % of the standard adopted by the FCC. No changes will be made to the RF characteristics of this facility as a consequence of the proposed equipment modifications.

### Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							56.97
AT&T UMS	126	880 - 894	2	1077	0.0488	0.5867	8.32
AT&T UMS	126	1900 Band	2	1556	0.0705	1.0000	7.05
AT&T GSM	126	1900 Band	4	934	0.0846	1.0000	8.46
AT&T GSM	126	880 - 894	1	538	0.0122	0.5867	2.08
AT&T LIE	126	734	1	1375	0.0311	0.4893	6.36
<b>Total</b>							<b>89.2%</b>

\* Per CSC records

### Proposed

**NO CHANGE**

### Structural information:

The attached structural analysis demonstrates that the tower has adequate structural capacity to accommodate the proposed modifications. (Hudson Design Group, 3/11/14)

3901009

ORIGINAL

Agreement dated 1<sup>st</sup> day of January 1999 by and between;

~~SHANNON LITE~~ *MSD* *MW*  
~~Mr. David Getchell~~ d/b/a Connecticut Communication  
497 Old Post Road  
Tolland, CT 06084 (hereinafter referred to as "Licensor")

Message Center Management, Inc.  
40 Woodland Street  
Hartford, CT 06105 (hereinafter referred to as "Managing Agent" or "MCM")

And;

Springwich Cellular Limited Partnership, acting herein by SNET Cellular, Inc., a  
Connecticut Corporation  
500 Enterprise Drive  
3rd Floor  
Rocky Hill, CT 06067-3900 (hereinafter referred to as "Licensee")

WHEREAS, Licensor is the owner of a parcel of land and a communications tower located at 497 Old Post Road, Tolland, CT, 06084 geographic coordinates: North 72 degrees, 24 minutes, 14 seconds; West 41 degrees, 51 minutes, 39 seconds (hereinafter referred to as the "Site").

WHEREAS, Message Center Management is the Managing Agent of the Site.

WHEREAS, Licensee desires to locate communications equipment at the Site for the purpose of receiving and transmitting radio signals on the frequencies specified in Exhibit A of this Agreement.

NOW THEREFORE, in consideration of the terms and conditions set forth below the parties agree as follows;

**1) APPLICATION**

- a) Licensee will submit to the Managing Agent an application (the Application) for equipment space, which when approved by Managing Agent shall become a part of this Agreement, shown as Exhibit A and A-1.
- b) Approval of The Application shall be subject to a system compatibility study to be performed by the Managing Agent's consulting engineer. The cost of this study shall be borne solely by the Licensee. Incompatibility of Licensee's frequencies shall be cause to reject the application.

**2) LICENSE**

- a) Licensor hereby grants to Licensee, upon approval of the Application;
  - i) The non-exclusive right to install, operate and maintain the equipment shown in Exhibit A.

ii) The non-exclusive right to connect to the Sites's electrical system.

iii) The non-exclusive right to connect to the Site's telephone lines.

b) Licensee shall not install, or operate any equipment at the Site or make any connection to the Site's electrical system, except in a manner prescribed by the Managing Agent.

c) Licensee shall operate equipment and utilize transmission frequencies only as licensed by the Federal Communications Commission (FCC), and listed in Exhibit A. Licensee shall not change its operating frequency without the prior written consent of the Managing Agent.

d) Licensee shall provide Licensor and Managing Agent, for validation, the names of the contractor(s) and subcontractor(s) performing work on Licensee's behalf at the Site. If Licensee fails to validate any contractor(s) and/or subcontractor(s) within thirty (30) days following submission of the name(s) thereof, such contractor(s) and/or sub-contractor(s) shall be deemed not validated. All contractor(s) and subcontractor(s) performing work at the Site shall provide Licensee with certificates of insurance, (i) evidencing general liability coverage in commercially reasonable amounts, (ii) evidencing worker's compensation insurance in statutory amounts, and (iii) naming Lessee and all others reasonably required as additional insured.

e) Licensee, its employees, contractors and assigns shall conform to the Message Center Rules and Regulations governing the minimum technical standards for installation, operation, and maintenance of equipment located at the Site. These rules are shown as Exhibit B and hereby made a part of this Agreement, which may be amended from time to time upon sixty (60) days notice by Managing Agent.

f) Licensor will provide keys and alarm codes to Licensee, access to the Site during normal business hours, except in the case of an emergency in which case Licensee shall notify Managing Agent within a reasonable amount of time that such emergency took place. Licensee, its employees, contractors and assigns agree to take all precautions necessary to maintain the security of the Site. Licensee agrees to abide by the Key Agreement shown as Exhibit D and hereby made a part of this Agreement.

### 3) EQUIPMENT

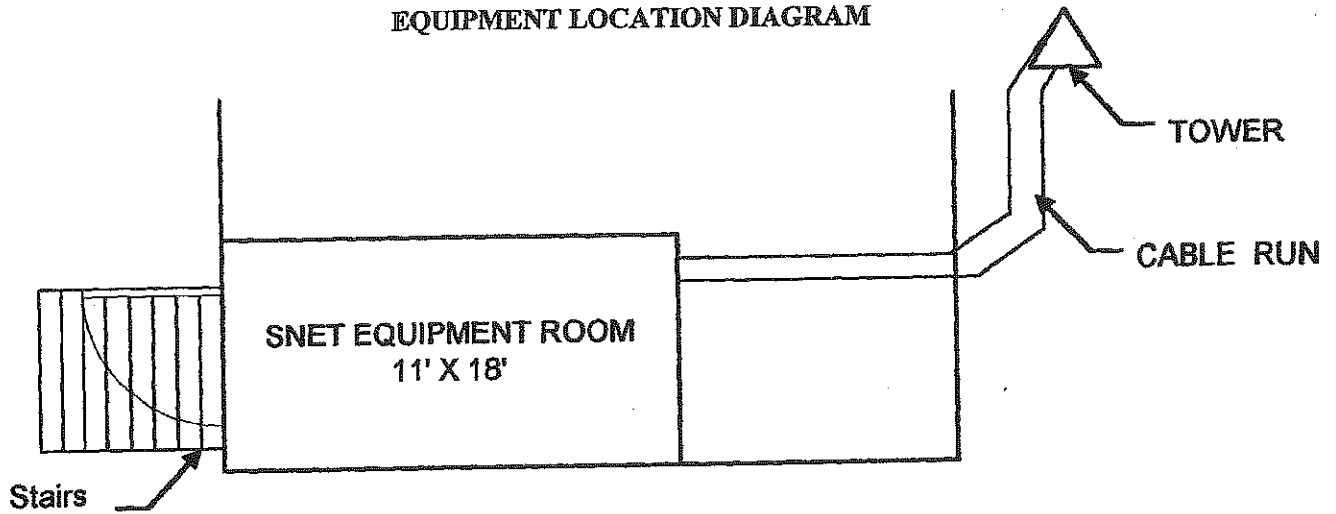
The Licensee shall be allowed to place up to nine ( 9 ) panel antennas on the Site. The equipment area for the Licensee shall consist of an eleven (11') foot by eighteen (18') foot area totaling no area totaling no more than one hundred ninety eight (198') square feet.

} LEASE  
AREA

### 4) COORDINATION OF OPERATION

a) As a consequence of the proposed 24 hour daily basis of operation by Licensee, any action on the part of Licensor and Managing Agent without prior notice in making repairs, alterations, additions or improvements in the operation of the Site which might materially interfere with, suspend, cut-off or terminate access to or use of the Site and its facilities and equipment, including air-conditioning therein, could cause inconvenience and expense to Licensee. Therefore, Managing Agent agrees to make reasonable efforts to give to Licensee ten (10) days prior written notice (except in the case of emergency where advance notice cannot

EXHIBIT A-1  
EQUIPMENT LOCATION DIAGRAM



- SNET equipment to be located in 11' X 18' room located on second floor of residence.
- Separate Electrical service required.
- Basic construction of room complete
- Stairs to room complete
- 9 ea. Allgon 7120.16 antennas to be located at 125' level on tower using Pirod T-Frame mounts

Antenna Mount Height : \_\_\_\_\_

\*\*\*\*\*

For MCM use only

Reviewed by: *[Signature]* Date: 2.15.99

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Modifications: \_\_\_\_\_

**PROJECT INFORMATION**

UNMANNED TELECOMMUNICATIONS FACILITY MODIFICATIONS  
 497 OLD POST ROAD  
 TOLLAND, CT 06864  
 41.8607° N 41' 51" 36.52" N  
 72.4033° W 72' 24" 11.88" W  
 NATIONAL, STATE & LOCAL CODES OR ORDINANCES  
 TELECOMMUNICATIONS FACILITY  
 TELECOMMUNICATIONS FACILITY  
 PROPOSED USE:

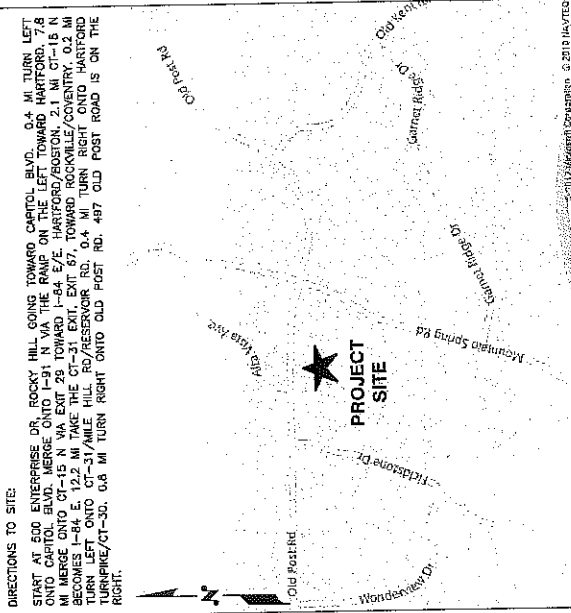


**SITE NUMBER: CT1047**  
**SITE NAME: TOLLAND-GETCHELL**

**DRAWING INDEX**

	REV
T-1	1
GN-1	1
A-1	1
A-2	1
A-3	1
G-1	1

**VICINITY MAP**

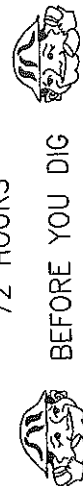


DIRECTIONS TO SITE:  
 START AT 500 ENTERPRISE DR, ROCKY HILL, GOING TOWARD CAPITOL BLVD. 0.4 MI. TURN LEFT ONTO CAPITOL BLVD. MERGE ONTO I-91 AND TAKE THE LEFT TOWARD HARTFORD. 7.8 MI. MERGE ONTO CT-31 AND TAKE THE LEFT TOWARD HARTFORD/BOSTON. 2.1 MI. CT-16 N TAKE THE RIGHT TOWARD HARTFORD/BOSTON. 0.6 MI. TAKE THE RIGHT TOWARD ROCKVILLE/COVENTRY. 0.2 MI. TURN LEFT ONTO CT-31/MILE HILL RD/RESERVOIR RD. 0.4 MI. TURN RIGHT ONTO HARTFORD TURNPIKE/CT-30. 0.8 MI. TURN RIGHT ONTO OLD POST RD. 487 OLD POST ROAD IS ON THE RIGHT.

**GENERAL NOTES**

- THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. REPRODUCTION OR USE BY ANY OTHER PARTY WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. AT&T ASSUMES NO LIABILITY FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS DOCUMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- THE FACILITY IS AN UNMANNED REMOTE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY TO BE USED FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE ACCESS TO THE FACILITY SHALL BE LIMITED TO PERSONNEL TRAINED AND CERTIFIED IN THE OPERATION OF THE FACILITY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

72 HOURS  
 BEFORE YOU DIG  
 CALL TOLL FREE 800-922-4455 OR DIAL 811



UNDERGROUND SERVICE ALERT

Professional Engineer Seal: David J. Johnson, No. 24178, State of Connecticut, License No. 24178, Exp. 12/31/2008.

AT&T TITLE SHEET (LITE) DRAWN BY: SP, CHECKED BY: AT, DESIGNED BY: AT, SCALE: AS SHOWN, DATE: 01/17/14, ISSUED FOR REVIEW: 01/17/14, ISSUED FOR CONSTRUCTION: 02/19/14.

at&t logo  
 565 COMMUNITE ROAD  
 FRAMINGHAM, MA 01701

SITE NUMBER: CT1047  
 SITE NAME: TOLLAND-GETCHELL  
 497 OLD POST ROAD  
 TOLLAND, CT 06864  
 HARTFORD COUNTY

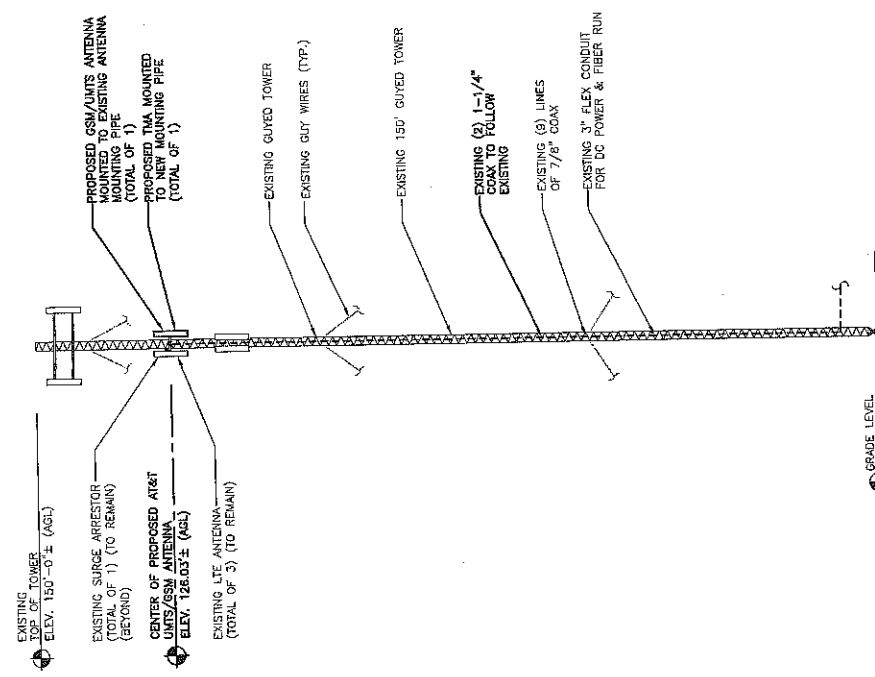
SAI logo  
 27 NORTHWESTERN DR.  
 SALEM, NH 03079

Hudson Design Group logo  
 1400 WASHINGTON BLVD  
 SUITE 200  
 WASHINGTON, DC 20004  
 TEL: (703) 515-5550  
 FAX: (703) 515-5550



**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



GRADE LEVEL  
0'-0" ± AGL

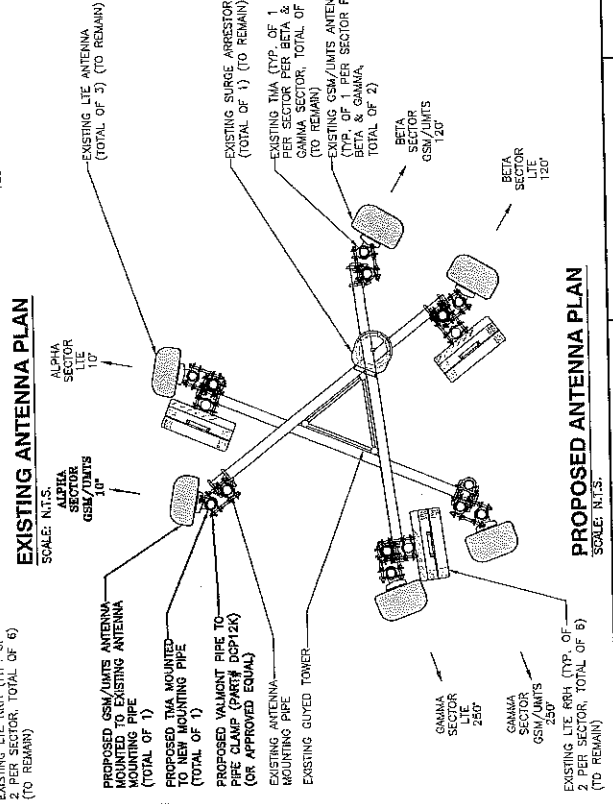
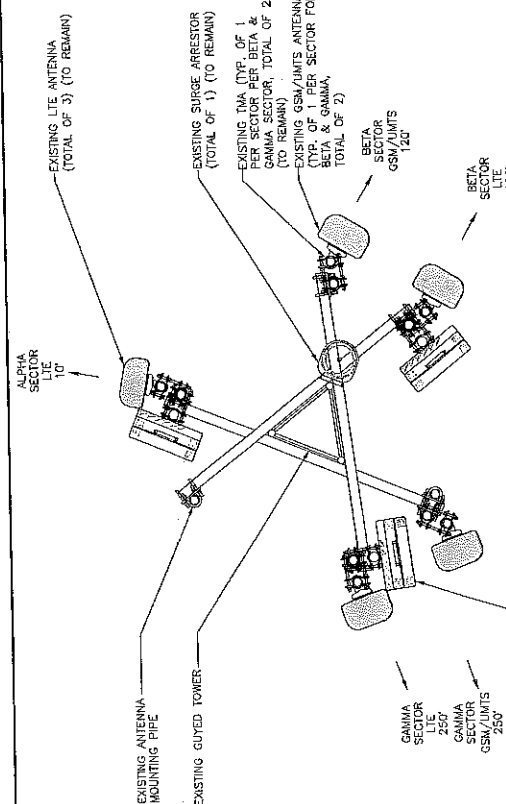
**PROPOSED ANTENNA PLAN**  
SCALE: N.T.S.

**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

**PROPOSED ANTENNA PLAN & ELEVATION**  
ANTENNA PLAN & ELEVATION (LITE)  
Drawing No. AT-2

NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
1	03/14/14	ISSUED FOR CONSTRUCTION	SP	DC
2	01/07/14	ISSUED FOR REVIEW	SP	DC

DATE: 10/4/01  
DRAWING NO.: A-2



**Hudson**  
Design Group  
1650 CONVENT RD. SUITE 300  
N. ANDOVER, MA 01854  
TEL: (978) 535-9333  
FAX: (978) 234-8888

27 NORTHWESTERN DR.  
SALEM, NH 03073

**at&t**  
550 COCHITUATE ROAD  
FRAMINGHAM, MA 01701

**SITE NUMBER: CT1047**  
**SITE NAME: TOLLAND-GETCHELL**  
497 OLD POST ROAD  
TOLLAND, CT 06084  
HARTFORD COUNTY

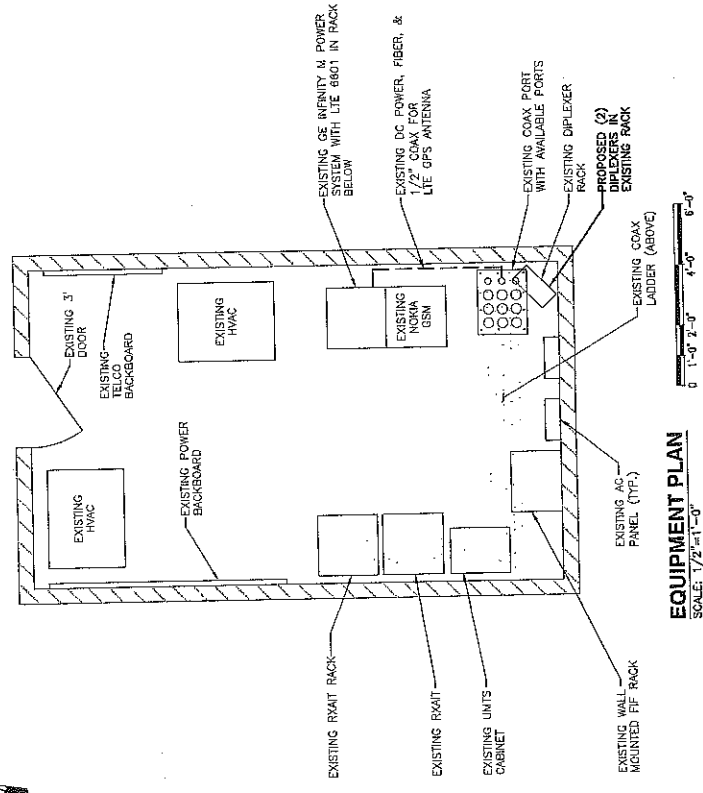
**PROPOSED ANTENNA PLAN & ELEVATION**  
ANTENNA PLAN & ELEVATION (LITE)  
Drawing No. AT-2

NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY
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2	01/07/14	ISSUED FOR REVIEW	SP	DC

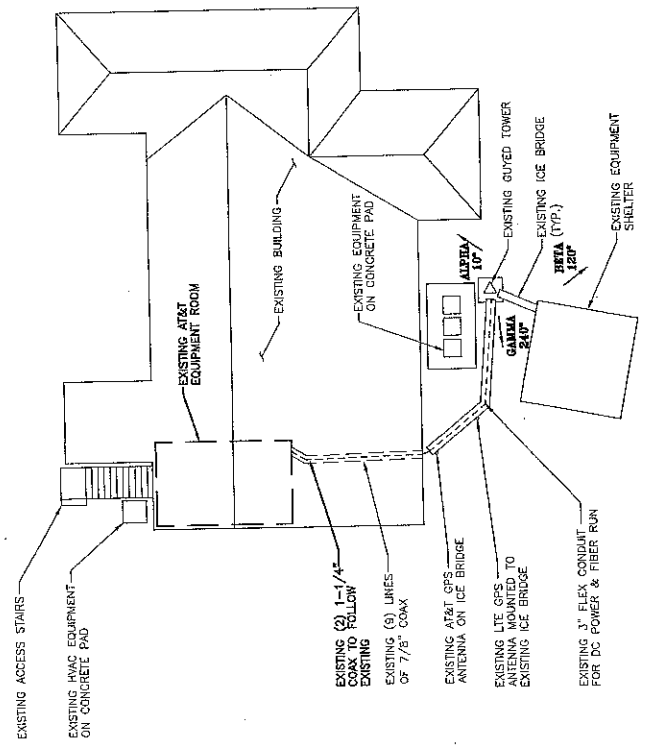
DATE: 10/4/01  
DRAWING NO.: A-2

**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT HAS BEEN DETERMINED PRIOR TO CONSTRUCTION.



**EQUIPMENT PLAN**  
SCALE: 1/2" = 1'-0"



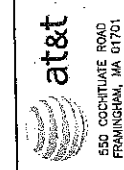
**COMPOUND PLAN**  
SCALE: 1/8" = 1'-0"



*David P. Hagan*  
No. 24178  
10/17/14

NO.	DATE	REVISIONS	DESIGNED BY: AT	DRAWN BY: SB
1	10/16/14	ISSUED FOR CONSTRUCTION		
2	01/20/15	ISSUED FOR CONSTRUCTION		
3	01/20/15	ISSUED FOR REVIEW		
4	01/17/14	ISSUED FOR REVIEW		

SCALE: AS SHOWN



550 COCHITUCKET ROAD  
FRAMINGHAM, MA 01701

**SITE NUMBER: CT1047**  
**SITE NAME: TOLLAND-GETCHELL**  
497 OLD POST ROAD  
TOLLAND, CT 06004  
HARTFORD COUNTY

27 NORTHWESTERN DR.  
SALEM, NH 03079



**Hudson**  
Design Group  
100 WASHINGTON ST., SUITE 200  
ROSELAND, MA 01868  
TEL: 978-684-5333  
FAX: 978-684-5355

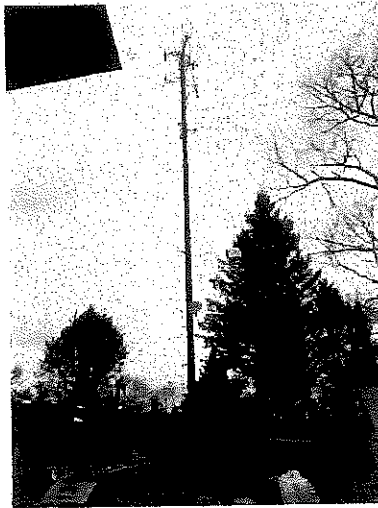
(Revised)  
**STRUCTURAL ANALYSIS REPORT**

For

**CT1047**  
**TOLLAND - GETCHELL**

497 Old Post Road  
Tolland, CT 06084

**Antennas Mounted to the Tower**



Prepared for:



**at&t**

500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

Dated: March 11, 2014 (Rev 1)

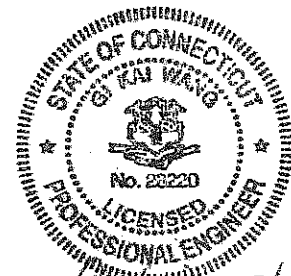
Dated: April 19, 2012

Prepared by:

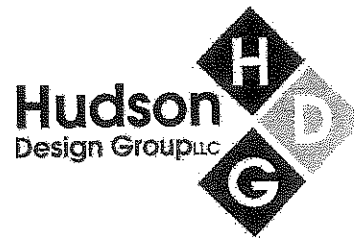
**Hudson**  
Design Group LLC



1600 Osgood Street Bldg. 20N Suite 3090  
North Andover, MA 01845  
(P) 978.557.5553 (F) 978.336.5586  
[www.hudsondesigngroupllc.com](http://www.hudsondesigngroupllc.com)



*Signature* 3/11/2014



#### **SCOPE OF WORK:**

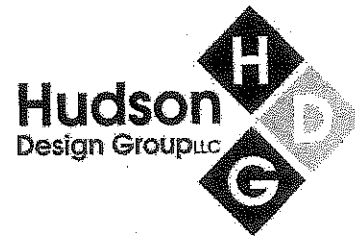
Hudson Design Group LLC (HDG) has been authorized by AT&T to conduct a structural evaluation of the 150' guyed tower supporting the proposed AT&T antennas located at elevation 126' above the ground level.

This report represents this office's findings, conclusions and recommendations pertaining to the support of AT&T's existing and proposed antennas listed below.

Record drawings of the existing tower were not available for our use. The previous structural analysis report prepared by Malouf Engineering Intl., Inc., dated October 8, 2008 was available and obtained for our use. This office conducted an on-site visual survey and tower mapping on April 9, 2012 to record dimensional properties of the existing tower and its appurtenances. Attendees included Bradley Loeb (HDG - Associate) and Nick Bestor (HDG - Associate).

#### **CONCLUSION SUMMARY:**

Based on our evaluation, we have determined that the existing tower is in conformance with the ANSI/TIA-222-G Standard for the loading considered under the criteria listed in this report. The tower structure is rated at 88.1% - (Leg at Tower Section T4 from EL.80' to EL.100' Controlling).



**APPURTENANCES CONFIGURATION:**

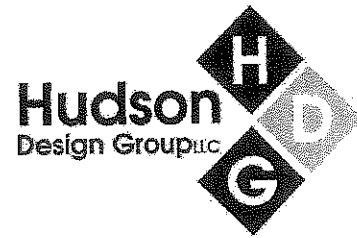
Tenant	Appurtenances	Elev.	Mount
	15' Dipole	167.5'	Tower Leg
	10' Dipole	155'	Tower Leg
	15' Dipole	150.5'	3' Side Mount Standoff
	10' Dipole	148'	5' Side Mount Standoff
	(6) 6' Panel Antennas	144'	12' T-Frame
	6' Omni	134'	3' Side Mount Standoff
<b>AT&amp;T</b>	<b>(2) AM-X-CD-16-65-00 Antennas</b>	126'	<b>WiMax Tower Mount</b>
<b>AT&amp;T</b>	<b>(4) SBNH-1D6565C Antennas</b>	126'	<b>WiMax Tower Mount</b>
<b>AT&amp;T</b>	<b>(6) RRUs</b>	126'	<b>WiMax Tower Mount</b>
<b>AT&amp;T</b>	<b>(3) DTMABP7819VG12A</b>	126'	<b>WiMax Tower Mount</b>
<b>AT&amp;T</b>	<b>(12)CM1007-DBPXBC</b>	126'	<b>WiMax Tower Mount</b>
<b>AT&amp;T</b>	<b>(3)CCDP-665</b>	126'	<b>WiMax Tower Mount</b>
<b>AT&amp;T</b>	<b>Surge Arrestor DC6-48-60-18-8F</b>	126'	<b>WiMax Tower Mount</b>
	4' Yagi	122'	Tower Leg
	(3) APXV18-206517 Antennas	116'	1' Side Mount Standoff
	10' Omni	92'	Torque Arm
	15' Omni	88.5'	4' Side Mount Standoff
	8' Dipole	53'	2' Side Mount Standoff
	GPS	52'	2' Side Mount Standoff
	2' Dish	34'	2' Side Mount Standoff

\*Proposed AT&T Appurtenances shown in Bold.

**AT&T EXISTING/PROPOSED COAX CABLES:**

Tenant	Coax Cables	Elev.	Mount
<b>AT&amp;T</b>	<b>(9) 7/8" Cables</b>	126'	Face of Tower
<b>AT&amp;T</b>	<b>(2) 1 1/4" Cables</b>	126'	Face of Tower
<b>AT&amp;T</b>	<b>Fiber Cable</b>	126'	Face of Tower
<b>AT&amp;T</b>	<b>(2) DC Power Cables</b>	126'	Face of Tower

\*Proposed AT&T Coax Cables shown in Bold.



**ANALYSIS RESULTS SUMMARY:**

<b>Component</b>	<b>Max. Stress Ratio</b>	<b>Elev. of Component (ft)</b>	<b>Pass/Fail</b>	<b>Comments</b>
<b>Legs</b>	<b>88.1 %</b>	<b>80 – 100</b>	<b>PASS</b>	<b>Controlling</b>
<b>Diagonals</b>	<b>64.1 %</b>	<b>120 – 140</b>	<b>PASS</b>	
<b>Top Girt</b>	<b>31.0 %</b>	<b>120 – 140</b>	<b>PASS</b>	
<b>Bottom Girt</b>	<b>20.1 %</b>	<b>140 – 150</b>	<b>PASS</b>	
<b>Mid Girt</b>	<b>13.4 %</b>	<b>40 – 60</b>	<b>PASS</b>	
<b>Guy</b>	<b>79.5 %</b>	<b>96.8</b>	<b>PASS</b>	
<b>Torque Arm</b>	<b>59.6 %</b>	<b>137.7</b>	<b>PASS</b>	



**DESIGN CRITERIA:**

1. EIA/TIA-222-G Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

County: Tolland  
Wind Load: 105 mph (3 second gust)  
Structural Class: II  
Exposure Category: B  
Topographic Category: 1  
Nominal Ice Thickness: 1.0 inch

2. Approximate height above grade to proposed antennas: 126'-0"

**\*Calculations and referenced documents are attached.**

**ASSUMPTIONS:**

1. The tower and foundation are properly constructed and maintained. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
2. The appurtenances configuration is as stated in this report. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer requirements.
3. The support mounts and platforms are not analyzed and are considered adequate to support the loading. The analysis is limited to the primary support structure itself.
4. All prior structural modification, if any, are assumed to be as per the data supplied (if available), and installed properly.
5. The foundation of the tower was not checked due to lack of information. As-built foundation drawings and geotechnical report would be required to determine whether the foundation is capable of supporting the proposed loadings.



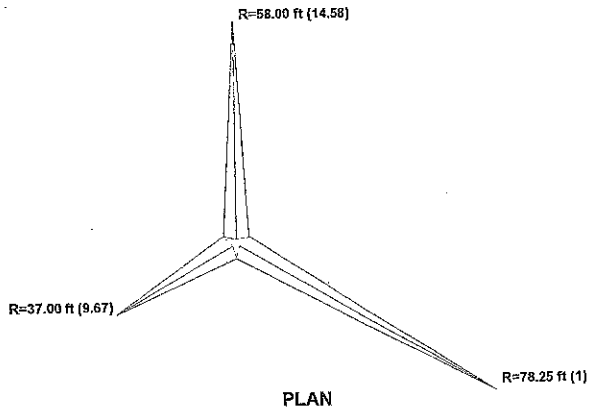
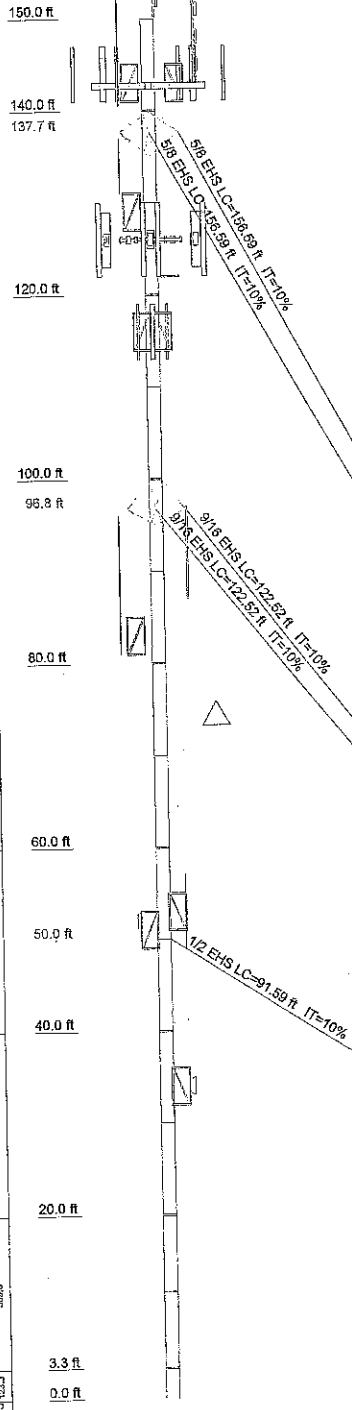
**SUPPORT RECOMMENDATIONS:**

HDG recommends that the proposed antennas, RRHs and surge arrestor be mounted on the proposed WiMax Tower Mount supported by the tower.

Reference HDG's Latest Construction Drawings for all component and connection requirements (attached).



Section	T1	T2	T3	T4	T5	T6	T7	T8	T9
Legs					SR 1 3/4				
Leg Grade					A572-50				
Diagonals					SR 5/8				
Diagonal Grade					A572-50				
Top Girts					SR 3/4				
Mid Girts					N.A.				
Bottom Girts					SR 3/4				
Face Width (ft)					1.5				
# Panels @ (ft)					72 @ 1.63278				
Weight (lb)					5431.3 @ 3.3				
					6 @ 1.63589				



**DESIGNED APPURTENANCE LOADING**

TYPE	ELEVATION	TYPE	ELEVATION
10'-4 Bay Dipole	150	TMA DTMABP7819VG12A (ATI - Proposed)	126
15' Dipole	150	(4) Powerwave CM1007-DBPXBC (ATI - Proposed)	126
(2) Panel Antenna 6'x8"	144	(4) Powerwave CM1007-DBPXBC (ATI - Proposed)	126
(2) Panel Antenna 6'x8"	144	(4) Powerwave CM1007-DBPXBC (ATI - Proposed)	126
(2) Panel Antenna 6'x8"	144	(4) Powerwave CM1007-DBPXBC (ATI - Proposed)	126
10'-4 Bay Dipole	143	(4) Powerwave CM1007-DBPXBC (ATI - Proposed)	126
PIROD 12' T-Frame	143	CCDP-665 diplexer (ATI - Proposed)	126
PIROD 12' T-Frame	143	CCDP-665 diplexer (ATI - Proposed)	126
PIROD 12' T-Frame	143	CCDP-665 diplexer (ATI - Proposed)	126
3' Side Mount Standoff	143	CCDP-665 diplexer (ATI - Proposed)	126
15' Dipole	143	Surge Arrestor (DC6-48-60-18-8F) w/mount pipe (ATI - Proposed)	126
Pirod 5' Side Mount Standoff	143	4' Yagi antenna	122
Omni 2'x6'	134	1' Side Mount Standoff	116
3' Side Mount Standoff	129	1' Side Mount Standoff	116
Site Pro CWT01 (ATI - Proposed)	126	1' Side Mount Standoff	116
Site Pro CWT01 (ATI - Proposed)	126	APXV18-206517S-C	116
Site Pro CWT01 (ATI - Proposed)	126	APXV18-206517S-C	116
(2) KMW AM-X-CD-16-65-00T-RET w/mount pipe (ATI - Proposed)	126	APXV18-206517S-C	116
(2) SBNH-1D8565C w/mount pipe (ATI - Proposed)	126	Omni 3"x10'	92
(2) SBNH-1D8565C w/mount pipe (ATI - Proposed)	126	Omni 2 1/2"x15'	88.5
(2) Ericsson RRU (ATI - Proposed)	126	Pirod 4' Side Mount Standoff (1)	83
(2) Ericsson RRU (ATI - Proposed)	126	2' Side Mount Standoff	53
(2) Ericsson RRU (ATI - Proposed)	126	8' 4-Bay Dipole	53
TMA DTMABP7819VG12A (ATI - Proposed)	126	GPS	52
TMA DTMABP7819VG12A (ATI - Proposed)	126	2' Side Mount Standoff	51
		2' Side Mount Standoff	34
		VHLP2-180	34

**SYMBOL LIST**

MARK	SIZE	MARK	SIZE
A	3 @ 1.08222		

**MATERIAL STRENGTH**

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi			

R=78.25 ft

**Hudson Design Group, LLC**  
 1600 Osgood Street, Building 20 North, Suite 3090  
 North Andover, MA 01845  
 Phone: (978) 557-5553  
 FAX: (978) 226-5586

Job: **CT 1047 Tolland, CT**  
 Project: **150 ft Guyed Tower**  
 Client: **AT&T** Drawn by: **kw** App'd:  
 Code: **TIA-222-G** Date: **03/10/14** Scale: **NTS**  
 Path: **D:\Projects\150ftGuyedTower\150ftGuyedTower.dwg** Dwg No. **E-**



**Centek Engineering, Inc.**  
3-2 North Branford Road  
Branford, Connecticut 06405  
Phone: (203) 488-0580  
Fax: (203) 488-8587

**Steven L. Levine**  
Real Estate Consultant

March 21, 2014

Steven Werbner, Town Manager  
Town of Tolland  
Hicks Memorial Municipal Center 21 Tolland Green  
Rockville, CT 06084

Re: Telecommunications Facility – 497 Old Post Road, Tolland

Dear Mr. Werbner:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) and Long Term Evolution (“LTE”) capabilities, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“AT&T”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The enclosed Notice fully sets forth the AT&T proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact the undersigned at 860-830-0380 or Ms. Melanie Bachman, Acting Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,



Steven L. Levine  
Real Estate Consultant

Enclosure