



Centek Engineering, Inc.
3-2 North Branford Road
Branford, Connecticut 06405
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Steven L. Levine
Real Estate Consultant

HAND DELIVERED

January 16, 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 1363 Boston Post Road, Old Saybrook (owner, AT&T)

CT-CING-106-131114
SECOND AMENDED Notice of Exempt Modification

Dear Ms. Bachman:

On November 14, 2013 New Cingular Wireless PCS, LLC (“AT&T”) submitted a Notice of Exempt Modification for the referenced telecommunications facility; and on January 6, 2014, AT&T submitted an Amended Notice of Exempt Modification. This Second Amended Notice of Exempt Modification is intended to replace both prior filings in their entirety.

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, 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: Carl P. Fortuna, 1st Selectman, Town of Old Saybrook

Attachments

NEW CINGULAR WIRELESS PCS, LLC
Equipment Modification

1363 Boston Post Road, Old Saybrook, CT
 Site Number 1284
 Prior Decisions: Docket 411

Tower Owner/Manager: AT&T

Equipment configuration: Monopole

Current and/or approved: Three T-arm mounts @ 97 ft
 Nine KMW AM-X-CD-16-65-00T-RET antennas @ 97 ft c.l.
 Six CCI TMA's @ 97 ft
 Twelve lines 1 5/8 inch coax
 Equipment shelter

Proposed modifications: Remove all T-arms, antennas, and TMA's from 97 ft level.
 Remove six lines 1 5/8 inch coax.
 Install two Valmont ULP12-496 Rigid T-arm Frames (@ 99.5 ft and
 @ 93.5 ft, respectively).
 Re-install three KMW AM-X-CD-16-65-00T-RET antennas
 @ 97 ft c.l.
 Install nine CCI HPA-65R-BUU-H6 antennas @ 97 ft c.l.
 Install three TMA's @ 97 ft.
 Install 18 remote radio heads and six associated A2 modules
 @ 97 ft.
 Install three Raycap DC6-48-60-18-8F surge arrestors @ 95 ft.
 Install one fiber cable and six DC control cables.

Power Density:

Calculations for AT&T's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 12.6 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for AT&T's planned operations would be approximately 16.3 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							0.00
AT&T GSM *	97	880 - 894	3	296	0.0339	0.5867	5.78
AT&T GSM *	97	1900 Band	1	427	0.0163	1.0000	1.63
AT&T UMTS *	97	880 - 894	1	500	0.0191	0.5867	3.26
AT&T UMTS *	97	1900 Band	1	500	0.0191	1.0000	1.91
Total *							12.6%

* Per CSC records

Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							0.00
AT&T LTE	97	700 Band	1	500	0.0191	0.4667	4.09
AT&T LTE	97	1900 Band	1	500	0.0191	1.0000	1.91
AT&T LTE	97	2300 Band	1	500	0.0191	1.0000	1.91
AT&T UMTS	97	880 - 894	2	500	0.0382	0.5867	6.51
AT&T UMTS	97	1900 Band	1	500	0.0191	1.0000	1.91
Total							16.3%

* Per CSC records

Structural information:

The Decision in Docket 411 restricts antenna mounts on the Old Saybrook tower to T-arms only. One set of T-arms, however, will be insufficient to support the increased equipment weight load. Therefore, AT&T proposes to install two sets of Valmont Ultra Low Profile Rigid T-Arms for necessary added support capacity. (Please refer to the attached Design Memo from ProTerra Design Group, LLC.) The attached structural analysis (GPD Group, 1/10/14) demonstrates that the tower and foundation are adequate to accommodate the proposed equipment modifications.

From: "Bachman, Melanie" <Melanie.Bachman@ct.gov>
To: 'Steve Levine' <sllevine@snet.net>
Cc: "Martin, David C." <David.C.Martin@ct.gov>; "Fontaine, Lisa" <Lisa.Fontaine@ct.gov>; "Mulcahy, Carriann" <Carriann.Mulcahy@ct.gov>; "Brito, Jessica" <jessica.brito@ct.gov>
Sent: Tuesday, January 7, 2014 2:13 PM
Subject: RE: Resubmission -- AT&T Exempt Mod EM-CING-106-131114

Good afternoon, Steve.

Thank you for your message. I appreciate your candor.

This exempt mod will be placed on hold for a second time, pending redesign of the upgrade and the fee paid in November will still be applied to the second resubmission. As before, please indicate in the cover letter for the revised submission the above-referenced control number and a brief statement describing the reason for the resubmission.

Thanks. Have a nice afternoon.

Melanie

Melanie A. Bachman
Staff Attorney/Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
860-827-2951

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From: Steve Levine [mailto:sllevine@snet.net]
Sent: Tuesday, January 07, 2014 1:39 PM
To: Bachman, Melanie
Cc: Martin, David C.
Subject: Re: Resubmission -- AT&T Exempt Mod EM-CING-106-131114

Melanie,

It turns out that there's another issue with the Old Saybrook exempt mod notice I resubmitted yesterday. Dave Martin has informed me that Docket 411 contains a T-arms-only stipulation at this facility. We apparently overlooked the requirement, and for this I apologize.

I respectfully request that this exempt mod notice be placed on hold for a second time, pending re-design of the LTE upgrade in conformance with Docket 411. I also ask that the application fee paid in November still be applied to the second resubmission.

Thank you for your consideration in this matter.

-- Steve Levine, for AT&T Mobility (860-830-0380)

From: "Bachman, Melanie" <Melanie.Bachman@ct.gov>
To: 'Steve Levine' <sllevine@snet.net>
Sent: Monday, January 6, 2014 9:37 AM
Subject: RE: Resubmission -- AT&T Exempt Mod EM-CING-106-131114

Good morning, Steve.

Thank you for following through with the resubmission as we discussed. It is appreciated.

Melanie A. Bachman
Staff Attorney/Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
860-827-2951

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From: Steve Levine [mailto:sllevine@snet.net]
Sent: Monday, January 06, 2014 9:16 AM
To: CSC-DL Siting Council; Brito, Jessica
Cc: Bachman, Melanie
Subject: Resubmission -- AT&T Exempt Mod EM-CING-106-131114

Good morning.

Attached please find the electronic version of AT&T's revised Notice for EM-CING-106-131114. I will probably visit the Council later today to submit the original and 2 hard copies. Per Atty Bachman's email below, the fee submitted on 11/14/13 should be applied to this filing.

I have also attached the full structural analysis.

Thank you.

-- Steve Levine

From: "Bachman, Melanie" <Melanie.Bachman@ct.gov>
To: 'Steve Levine' <sllevine@snet.net>
Cc: "Martin, David C." <David.C.Martin@ct.gov>; Carl Aquilina <Carl.Aquilina@SAI-Comm.com>; Carlo F. Centore <cfcentore@centekeng.com>; "Mulcahy, Carriann" <Carriann.Mulcahy@ct.gov>; "Fontaine, Lisa" <Lisa.Fontaine@ct.gov>
Sent: Wednesday, November 20, 2013 1:33 PM
Subject: RE: CT-CING-106-131114

Good afternoon, Steve.

Thank you for the information. We will place the exempt modification request on hold pending receipt of the updated information and apply the fee already paid to the resubmission. Please indicate in the

cover letter for the updated information the above-referenced control number and a brief statement describing the resubmission.

Thanks.

Melanie A. Bachman
Staff Attorney/Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051
860-827-2951

From: Steve Levine [<mailto:sllevine@snet.net>]
Sent: Wednesday, November 20, 2013 1:26 PM
To: Bachman, Melanie
Cc: Martin, David C.; Carl Aquilina; Carlo F. Centore
Subject: CT-CING-106-131114

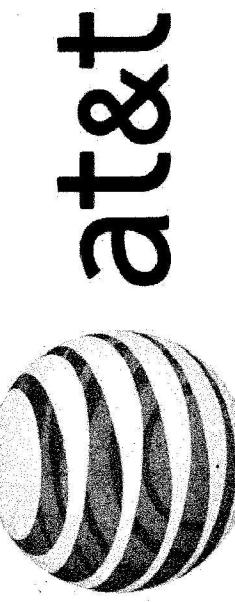
Dear Ms. Bachman,

AT&T is revising its proposed LTE upgrade design for 1363 Boston Post Road, Old Saybrook. We submitted an exempt mod Notice and fee for the upgrade on 11/14 using the original design. Dave Martin informs me that the EM has not yet gone out to Council members on a weekend summary.

We respectfully request that the Notice be placed on hold pending receipt of an updated equipment inventory, drawings, and structural analysis. We also respectfully request that the \$625 fee already paid to the Council for the original submission be applied to the re-submission.

Thank you for your consideration in this matter.

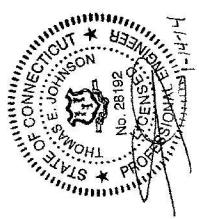
Sincerely,
Steve Levine, for AT&T Mobility



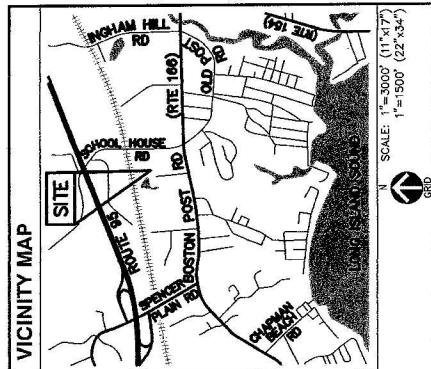
OLD SAYBROOK SCHOOLHOUSE ROAD (CT-1284)

1363 BOSTON POST ROAD
OLD SAYBROOK, CT 06475

SITE TYPE: MONOPOLE – LTE ALTERATION



PROJECT SUMMARY	
SITE NAME:	OLD SAYBROOK SCHOOLHOUSE ROAD
SITE ADDRESS:	1363 BOSTON POST ROAD OLD SAYBROOK, CT 06475
COUNTY:	MIDDLESEX
TAX ID:	027/023-0000
ZONING JURISDICTION:	TOWN OF OLD SAYBROOK
ZONING CLASSIFICATION:	(B-4) GATEWAY BUSINESS DISTRICT
CONSTRUCTION TYPE:	LTE ALTERATION
LATITUDE:	41° 17' 23.2" N ± (RECORD)
LONGITUDE:	72° 24' 21.4" W ± (RECORD)
PROPERTY OWNER:	N/F. WIGGINS FAMILY LLC 26 SPRINGER ROAD, CT 06475
APPLICANT, LESSEE/LICENSEE, PROJECT OWNER:	NEW SINGULAR WIRELESS PCS, LLC s/b/o AT&T 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067
ARCHITECT/ENGINEER:	PROTERRA DESIGN GROUP, LLC 1 SHORT STREET, SUITE 3 NORTHAMPTON, MA 01060



SHEET INDEX	
SH. NO.	DESCRIPTION
T-1	TITLE SHEET
S-1	GENERAL NOTES
A-1	COMPUND & ELEVATION
A-2	EQUIPMENT ROOM PLAN
S-1	STRUCTURAL DETAILS
S-2	STRUCTURAL DETAILS
S-3	STRUCTURAL DETAILS
E-1	ELECTRICAL & GROUNDING DETAILS

PROJECT DESCRIPTION	
1. THIS PLAN SET DETAILS A MODIFICATION TO AN EXISTING AT&T COMMUNICATIONS FACILITY. THIS IS UNMANAGED & RESTRICTED ACCESS EQUIPMENT, AND WILL NOT BE USED FOR COMMERCIAL SENSING OR COMMUNICATIONS. THIS FACILITY WILL CONSUME NO UNSEGREGATED ENERGY. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.	2. NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.
3. NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.	4. THE MAINTENANCE CREW (TYPICALLY ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER TRIP.
5. NO UNDERGROUND UTILITIES INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. THE FOLLOWING FOR ALL PRE-CONSTRUCTION ACTIVITY:	6. NO CONSTRUCTION ACTIVITY WILL OCCUR FOR ALL PRE-CONSTRUCTION ACTIVITY.
7. NO EXCAVATION ACTIVITY WILL OCCUR FOR ANY EXCAVATION ACTIVITY.	8. NO DIG SAFE SYSTEM (MA, NH, RI, VT): 888-344-7233

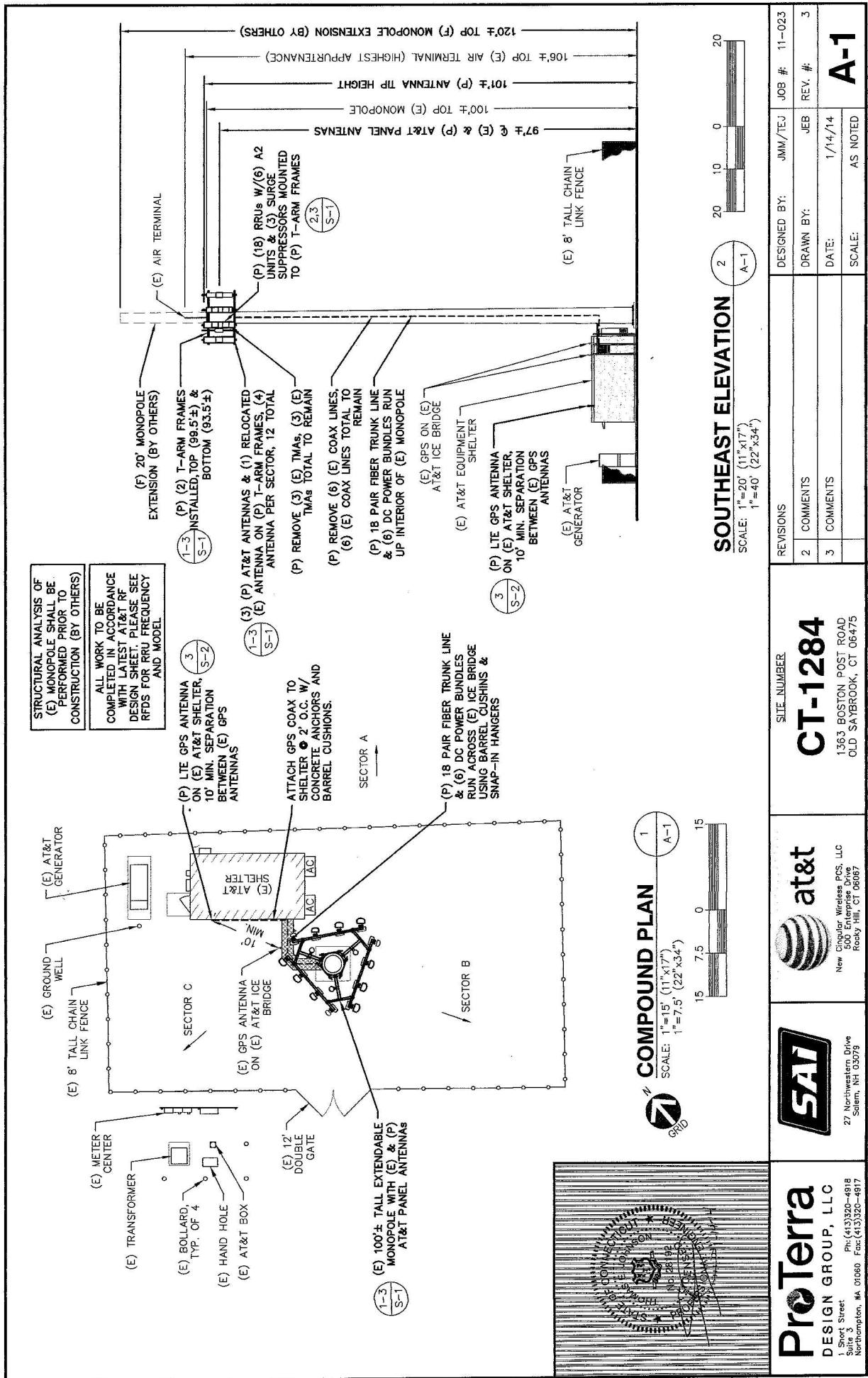
SCALE NOTES	
1. THIS SHEET SET WAS ORIGINALLY SETUP AS 11" x 17". PRINTING TO AS IS D (22" x 47" WILL RESULT IN A DOUBLE-SIDE SHEET WITH 1" MARGINS, RESULTING IN A 22" x 47" SHEET). 2. SCALES WILL CHANGE TO 1" = 10' OR 1" = 20' AS CONFIRMED ON THE DRAWING. 3. CONFIRM ALL SCALED DISTANCES WITH GRAPHICAL SCALES SHOWN HEREIN. GRAPHICAL SCALES WILL BE UNCHANGED BY ENLARGEMENT OR REDUCTION.	

ProTerra DESIGN GROUP, LLC	SAR	at&t	CT-1284	SITE NUMBER	REVISIONS	DESIGNED BY:	JMM/TEJ	JOB #:	11-023
				1363 BOSTON POST ROAD OLD SAYBROOK, CT 06475	2 COMMENTS	DRAWN BY:	JEB	REV. #:	3
					3 COMMENTS	DATE:	1/14/14		T-1
						SCALE:	AS NOTED		

New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067

27 Northwestern Drive
Salem, NH 03079

1 Short Street
Suite 3
Northampton, MA 01060
Ph: (413)320-4918
Fax: (413)320-4917



ProTerra

DESIGN GROUP, LLC

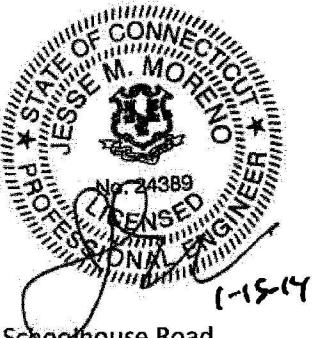
DESIGN MEMO

Date: January 15, 2014

Author: Jesse Moreno, PE

Project: AT&T CT-1284 Old Saybrook Schoolhouse Road

RE: Design of Mount for LTE Equipment Alteration for
Existing Telecommunications Facility
1363 Boston Post Road
Old Saybrook, CT 06475



SUMMARY

- Based upon the attached memo, the Ultra-Low Profile Rigid T-Arm Frame (SitePro1 P/N ULP12-NP) in a tandem arrangement will support the proposed configuration of RF equipment as noted herein and as shown on the latest Construction Drawings.

SCOPE OF WORK

ProTerra Design Group, LLC (ProTerra) was retained by SAI Communications for New Cingular Wireless PCS, LLC (AT&T) to design the placement of AT&T LTE antenna and radio equipment to upgrade the existing telecommunications installation located at the above referenced location. This report details ProTerra's design of the support for AT&T's LTE equipment alteration.

EXISTING CONDITIONS

The existing facility consisted of a 100' tall monopole (extendable to 120') within a fenced compound. An installation by AT&T were contained within the facility. The facility is located within a 115 mph wind zone as noted in the 2003 IBC with 2005, 2009, and 2011 Connecticut amendments and 85 mph fastest mile as noted in ANSI/TIA-222-F. The ANSI/TIA-222-G to be adopted to Connecticut in the near future requires design for a 3-second gust between 100 and 120 mph with $\frac{3}{4}$ " ice. Existing conditions of AT&T's installation were documented by ProTerra Design Group, LLC during a site visit on August 23, 2013.

Nine panel antennas in three sectors of three antennas each were pipe-mounted to a T-arm centered at 97' above ground level. The panel antennas were fed via coaxial cables through the monopole and across an ice bridge by equipment within a pad-mounted shelter.

PROPOSED EQUIPMENT

AT&T proposes to replace two of the three panel antennas at each sector with three panel antennas (92.4"H x 14.8"W x 7.4"D and 70 pounds maximum each). One panel antenna at each sector will remain. The new panel antennas at each sector will be fed via coaxial cables by six RRUs (approximately 70 pounds each) and two A2 units (approximately 22 pounds each). Power and fiber will be distributed to the RRUs by three surge suppressors (approximately 30 pounds each). The surge suppressors will be fed

via fiber and DC power cables following the existing coaxial cables by the pad-mounted shelter. An LTE rack with surge suppressor, fiber tray, and radio units will be added inside the shelter.

EQUIPMENT SUPPORT RECOMMENDATIONS

The existing T-arm frame is insufficient to support the proposed panel antennas and other RF equipment and shall be removed prior to placing equipment. ProTerra recommends placing two Ultra-Low Profile Rigid T-Arm Frames (SitePro1 P/N ULP12-NP) in a "tandem" arrangement on the monopole vertically separated by no more than seven feet. The frames shall be centered at the existing 97' above ground level. Twelve schedule 40 pipes in three sectors of four pipes each shall be mounted at each pipe mount location spanning the two frames.

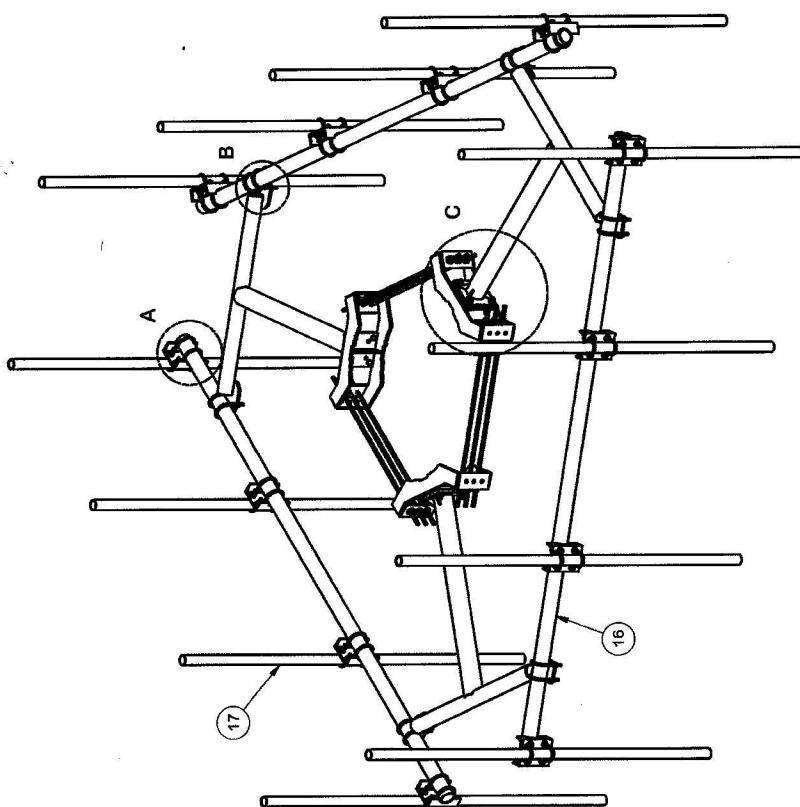
A maximum of one panel antenna and two RRUs containing a maximum factored load of 275 pounds may be mounted to each pipe. Surge suppressors shall be each pipe-mounted to the radial arm of the T-arm frame secured with crossover plates.

According to the attached memo regarding "ANSI/TIA-222-G Mount Capacity; Valmont / Site Pro 1 Mount: 12'-6" Ultra Low Profile Double Level Ridged [sic] T-Frame with 9 or 12 antennas" prepared by William B. Rettig for SitePro1 dated December 3, 2013, the doubled frame arrangement will support the proposed configuration of RF equipment following ANSI/TIA-222-G requirements.

The LTE alteration is detailed in a plan set entitled "Old Saybrook Schoolhouse Road (CT-1284)" prepared by ProTerra revised through January 14, 2014.

PARTS LIST

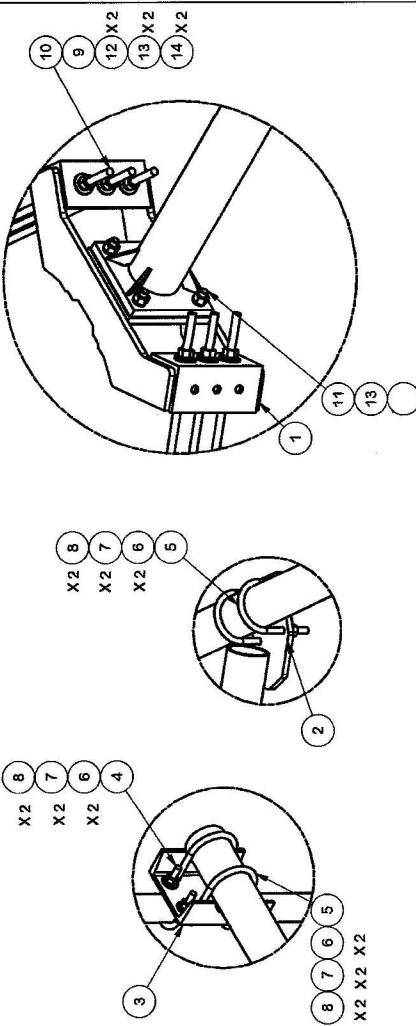
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT	68.16	204.48	309.20
2	3	X-ULP	SUPPORT ARM WELDMENT - 36"	103.07		
3	12	X-SP219	SMALL SUPPORT CROSS PLATE	8.250 in	8.61	103.33
4	24	X-UB1212	1/12" X 2-1/2" X 4-1/2" X 2" U-BOLT (Hdg.)		0.63	15.00
5	36	X-UB1306	1/12" X 3-5/8" X 6" X 3" U-BOLT (Hdg.)		0.66	23.63
6	120	G-12FW	1/12" HDG USS FLATWASHER	0.03	4.08	
7	120	G12LW	1/12" HDG LOCKWASHER	0.01	1.67	
8	120	G12NU	1/2" HDG HEAVY 2H HEX NUT	0.07	8.58	
9	9	G58R-24	5/8" X 24" GALV THREADED ROD	2.09	18.82	
10	9	G58R-48	5/8" X 48" GALV THREADED ROD	4.39	39.52	
11	12	A58234	5/8" x 2-3/4" HDG A325 HEX BOLT	2.75	0.36	4.27
12	18	G58FW	5/8" HDG USS FLATWASHER	0.07	1.27	
13	30	G58LNUT	5/8" HDG HEAVY 2H HEX NUT	0.03	0.78	
14	30	G58NU	3-1/2" X 150° SCH 40 GALVANIZED PIPE	150.00 in	0.13	3.89
16	3	P3150		94.80		284.40
17	12	A		C		D



DETAIL A

DETAIL B

DETAIL C



ATTENNA PIPES

"ASSEMBLY NO."	PART NO. "A"	PART DESCRIPTION "B"	LENGTH "C"	UNIT WT. "D"	TOTAL WT.
ULP12-NP	NP	N/A	N/A		927.96
ULP12-472	P272	2-3/8" O.D. SCH. 40 PIPE	72"	23.07	1,311.05
ULP12-484	P284	2-3/8" O.D. SCH. 40 PIPE	84"	26.91	1,357.13
ULP12-496	P296	2-3/8" O.D. SCH. 40 PIPE	96"	30.76	1,403.33

TOLERANCE NOTES

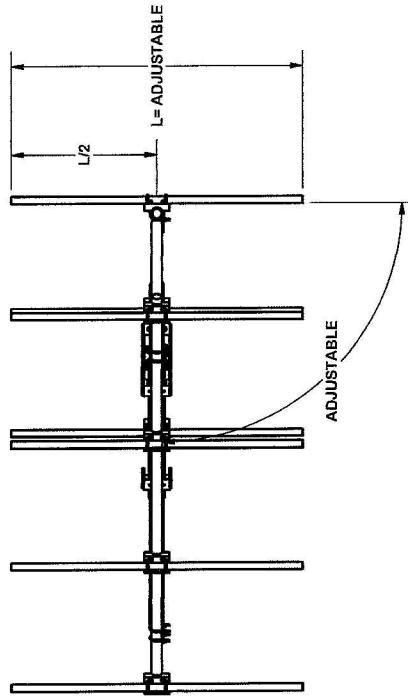
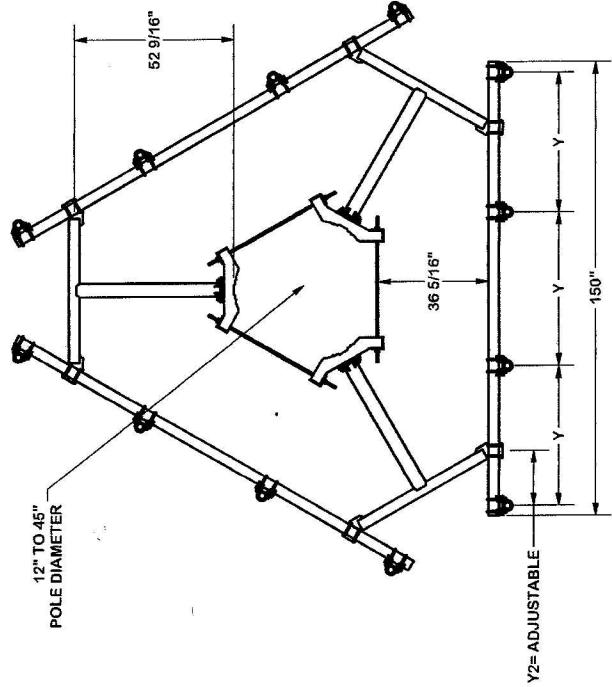
TOLENCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.030"$) - NO CONING OF HOLES
BENDS ARE ± 12 DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLING ($\pm 0.060"$)
PROJECTION NOTE:
INDIVIDUALS CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.



SEE "ASSEMBLY NO."

PART NO.

DWG. NO.



TOLERENCE NOTES

TOLERENCE ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
 SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
 DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
 LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
 BENDS ARE $\pm 1/2$ DEGREE
 ALL OTHER MACHINING ($\pm 0.030"$)
 ALL OTHER ASSEMBLING ($\pm 0.060"$)

PROPRIETARY NOTE:
 THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VANTON
 INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF
 VANTON INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION
**ULTRA LOW PROFILE RIDGED T-ARM
 FOR 12' ANTENNAS**

CDN. NO. 5416 DRAWN BY LMD 12/20/2012 ENG. APPROVAL

CLASS 81 SUB 01 DRAWING USAGE CUSTOMER BMC 12/27/2012 CHECKED BY

SEE "ASSEMBLY NO."

PART NO. Dwg. No.

ULP12-4XX

SITE PRO
 A valmont 

Engineering
 Support Team
 1-866-755-7446

Locations:
 New York, NY
 Atlanta, GA
 Los Angeles, CA
 Memphis, TN
 Dallas, TX

PAGE
 2 OF 2



A **valmont** COMPANY

December 3, 2013

RE: ANSI/TIA-222-G Mount Capacity
Valmont / Site Pro 1 Mount: 12'-6" Ultra Low Profile Double Level Ridged
T-Frame with 9 or 12 antennas

Part No. ULPD12-4xx

The Ultra-Low Profile Double Level Ridged T-Frame referenced above has been analyzed in accordance with ANSI/TIA-222-G-2005 standard using the following design criteria.

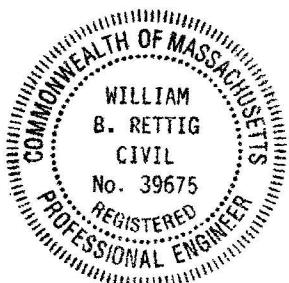
Mount Design Criteria

Structure Height	250'
Basic Wind Speed	120 mph (3-sec)
Ice Wind Speed	40 mph
Structure Class	II
Exposure Category	C
Topographic Category	I
Design Ice Thickness	0.75"
Wind Direction Factor	0.85 Tubular Pole Structures, Lattice Structures with other than triangular, square or rectangular cross-sections, strength design of appurtenances 0.80 On antennas, radios, and antenna pipes
Gust Effect Factor	1.10 Tubular Pole Structures

Modeling & Applied Appurtenance Loading

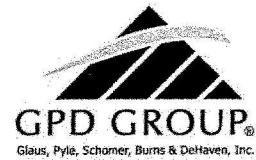
The mount was analyzed for four (4) antenna loads evenly spaced across each face of the mount, centered on the centerline of the mount (i.e. no vertical eccentricity). Based on the Design Criteria above; The maximum, factored normal force per antenna pipe is 878 lbs (12.9 Sq-ft) with a maximum, factored tangential force of 840 lbs (12.3 Sq-ft). The weight of each antenna was considered to be a maximum of 275 lbs. Self-weight of the mount was also considered.

The mount will also support a nominal load of 250 lbs at two (2) locations simultaneously (500 lbs total) to provide access for climbers. This condition assumes wind speed less than 30 mph.





SAI Communications
27 Northwestern Drive
Salem, NH 03079
(603) 560-7049



Kevin Clements
502 S. Main St., Suite 2531
Akron, Ohio 44311
(330) 572-2100
kclements@gpdgroup.com

GPD# 2013723.13.105130.02 Rev. 1
January 10, 2014

STRUCTURAL ANALYSIS REPORT

AT&T DESIGNATION: Site USID: 105130
Site FA: 10133875
Client #: CT1284
Site Name: OLD SAYBROOK BOSTON POST RD
AT&T Project: MOD: LTE Add 9/16/2013

ANALYSIS CRITERIA: Codes: TIA/EIA-222-F, ASCE 7-05 & 2005 CTBC
85-mph (fastest-mile) with 0" ice
38-mph (fastest-mile) with 0.75" ice

SITE DATA: 1363 Boston Post Road, Old Saybrook, CT 06475, Middlesex County
Latitude 41° 17' 23.201" N, Longitude 72° 24' 21.398" W
Market: New England
99' Sabre Monopole

Mr. Edward Onessimo ,

GPD is pleased to submit this Structural Analysis Report to determine the structural integrity of the aforementioned tower. The purpose of the analysis is to determine the suitability of the tower with the existing and proposed loading configuration detailed in the analysis report.

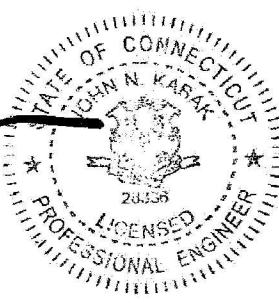
Analysis Results

Tower Stress Level with Proposed Equipment:	54.2%	Pass
Foundation Ratio with Proposed Equipment:	45.3%	Pass

We at GPD appreciate the opportunity of providing our continuing professional services to you and SAI Communications . If you have any questions or need further assistance on this or any other projects please do not hesitate to call.

Respectfully submitted,

John N. Kabak, P.E.
Connecticut #: 28336



SUMMARY & RESULTS

The purpose of this analysis was to verify whether the existing structure is capable of carrying the proposed loading configuration as specified by AT&T Mobility to SAI Communications . This report was commissioned by Mr. Edward Onessimo of SAI Communications .

The proposed coax shall be installed internal to the monopole for the analysis results to be valid.

TOWER SUMMARY AND RESULTS

Member	Capacity	Results
Monopole	54.2%	Pass
Anchor Rods	45.1%	Pass
Base Plate	52.1%	Pass
Foundation	45.3%	Pass

ANALYSIS METHOD

tnxTower (Version 6.1.3.1), a commercially available software program, was used to create a three-dimensional model of the tower and calculate primary member stresses for various dead, live, wind, and ice load cases. Selected output from the analysis is included in Appendix B. The following table details the information provided to complete this structural analysis. This analysis is solely based on this information and is being completed without the benefit of a detailed site visit.

DOCUMENTS PROVIDED

Document	Remarks	Source
Equipment Modification Form	AT&T Internal Loading Document, dated 12/11/2013	Siterra
Construction Drawings	ProTerra Job #: 11-023, dated 10/15/2013	SAI
Tower Design	Sabre Job #: 49722, dated 9/22/2011	Siterra
Foundation Design	Sabre Job #: 49722, dated 9/22/2011	Siterra
Geotechnical Report	Dr. Clarence Welti, P.E., P.C., dated 6/1/2011	Siterra

ASSUMPTIONS

This structural analysis is based on the theoretical capacity of the members and is not a condition assessment of the tower. This analysis is from information supplied, and therefore, its results are based on and are as accurate as that supplied data. GPD has made no independent determination, nor is it required to, of its accuracy. The following assumptions were made for this structural analysis.

1. The tower member sizes and shapes are considered accurate as supplied. The material grade is as per data supplied and/or as assumed and as stated in the materials section.
2. The antenna configuration is as supplied and/or as modeled in the analysis. It is assumed to be complete and accurate. All antennas, mounts, coax and waveguides are assumed to be properly installed and supported as per manufacturer requirements.
3. Some assumptions are made regarding antennas and mount sizes and their projected areas based on best interpretation of data supplied and of best knowledge of antenna type and industry practice.
4. All mounts, if applicable, are considered adequate to support the loading. No actual analysis of the mount(s) is performed. This analysis is limited to analyzing the tower only.
5. The soil parameters are as per data supplied or as assumed and stated in the calculations.
6. Foundations are properly designed and constructed to resist the original design loads indicated in the documents provided.
7. The tower and structures have been properly maintained in accordance with TIA Standards and/or with manufacturer's specifications.
8. All welds and connections are assumed to develop at least the member capacity unless determined otherwise and explicitly stated in this report.
9. All prior structural modifications are assumed to be as per data supplied/available and to have been properly installed.
10. Loading interpreted from photos is accurate to $\pm 5'$ AGL, antenna size accurate to ± 3.3 sf, and coax equal to the number of existing antennas without reserve.
11. All existing loading was obtained from site photos, the provided EMF and CDs and is assumed to be accurate.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and GPD Group should be allowed to review any new information to determine its effect on the structural integrity of the tower.

DISCLAIMER OF WARRANTIES

GPD GROUP has not performed a site visit to the tower to verify the member sizes or antenna/coax loading. If the existing conditions are not as represented on the tower elevation contained in this report, we should be contacted immediately to evaluate the significance of the discrepancy. This is not a condition assessment of the tower or foundation. This report does not replace a full tower inspection. The tower and foundations are assumed to have been properly fabricated, erected, maintained, in good condition, twist free, and plumb.

The engineering services rendered by GPD GROUP in connection with this Structural Analysis are limited to a computer analysis of the tower structure and theoretical capacity of its main structural members. All tower components have been assumed to only resist dead loads when no other loads are applied. No allowance was made for any damaged, bent, missing, loose, or rusted members (above and below ground). No allowance was made for loose bolts or cracked welds.

GPD GROUP does not analyze the fabrication of the structure (including welding). It is not possible to have all the very detailed information needed to perform a thorough analysis of every structural sub-component and connection of an existing tower. GPD GROUP provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc. The purpose of this report is to assess the feasibility of adding appurtenances usually accompanied by transmission lines to the structure.

It is the owner's responsibility to determine the amount of ice accumulation in excess of the specified code recommended amount, if any, that should be considered in the structural analysis.

The attached sketches are a schematic representation of the analyzed tower. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions, proper fit, and clearance in the field. Any mentions of structural modifications are reasonable estimates and should not be used as a precise construction document. Precise modification drawings are obtainable from GPD GROUP, but are beyond the scope of this report.

Miscellaneous items such as antenna mounts, etc., have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.

GPD GROUP makes no warranties, expressed and/or implied, in connection with this report and disclaims any liability arising from material, fabrication, and erection of this tower. GPD GROUP will not be responsible whatsoever for, or on account of, consequential or incidental damages sustained by any person, firm, or organization as a result of any data or conclusions contained in this report. The maximum liability of GPD GROUP pursuant to this report will be limited to the total fee received for preparation of this report.

Tower Analysis Summary Form

General Info	
Site Name	OLD SAYBROOK BOSTON POST RD
FA Number	105130
Date of Analysis	10/13/2013
Company Performing Analysis	GPD

The information contained in this summary report is not to be used independently from the PE stamped tower analysis.

Tower Info	
Tower Type (G, SST, MP)	MP
Tower Height (top of steel AGL)	99'
Sabre	n/a
Tower Model	n/a
Tower Design	Sabre Job #: 49722
Geotech Report	Dr. Clarence Metti, P.E., P.C.
Tower Mapping	n/a
Previous Structural Analysis	n/a
Foundation Mapping	n/a

Steel Yield Strength (ksi)	
Pole	65
Tower Base	50
Anchor Rods	75

Existing / Reserved Loading

Antenna		Antenna		Antenna		Antenna	
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth
AT&T Mobility	97	97	9	Panel	KMW	AM-X-CD-16-5-007-RET	40/150/270
AT&T Mobility	97	97	6	TMA	CCI	DTMABP7819VG12A	3

Note: (6) antennas, (3) TMAs, (6) 1-5/8" coax and the mounts at 97' shall be removed prior to the installation of the proposed loading. The remaining equipment shall be relocated to the proposed mount.

Proposed Loading

Antenna		Antenna		Antenna		Antenna	
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth
AT&T Mobility	97	97	9	Panel	CCI Antennas	HFA-65R-BUJ-H6	40/150/270
AT&T Mobility	97	97	6	RRU	Ericsson	RRUS 11	6
AT&T Mobility	97	97	6	RRU	Ericsson	RRUS 12	on same mount
AT&T Mobility	97	97	3	RRU	Ericsson	RRUS E2	on same mount
AT&T Mobility	97	97	3	RRU	Ericsson	RRUS 32	on same mount
AT&T Mobility	97	97	6	RRU	Ericsson	KRC 161 286-1 (A2 Module)	on same mount
AT&T Mobility	95	95	3	Surge	Raycap	DC6-48-60-18-8F	

Note: The proposed loading shall be in addition to the remaining existing loading being relocated to the proposed mount.

Note: The proposed coax shall be installed internal to the monopole for the analysis results to be valid.

Future Loading

Antenna		Antenna		Antenna		Antenna	
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth

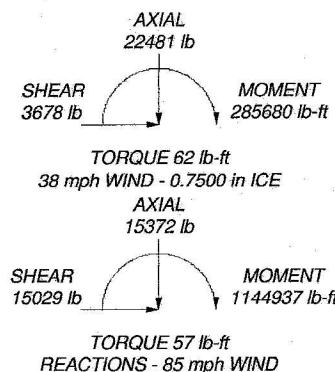
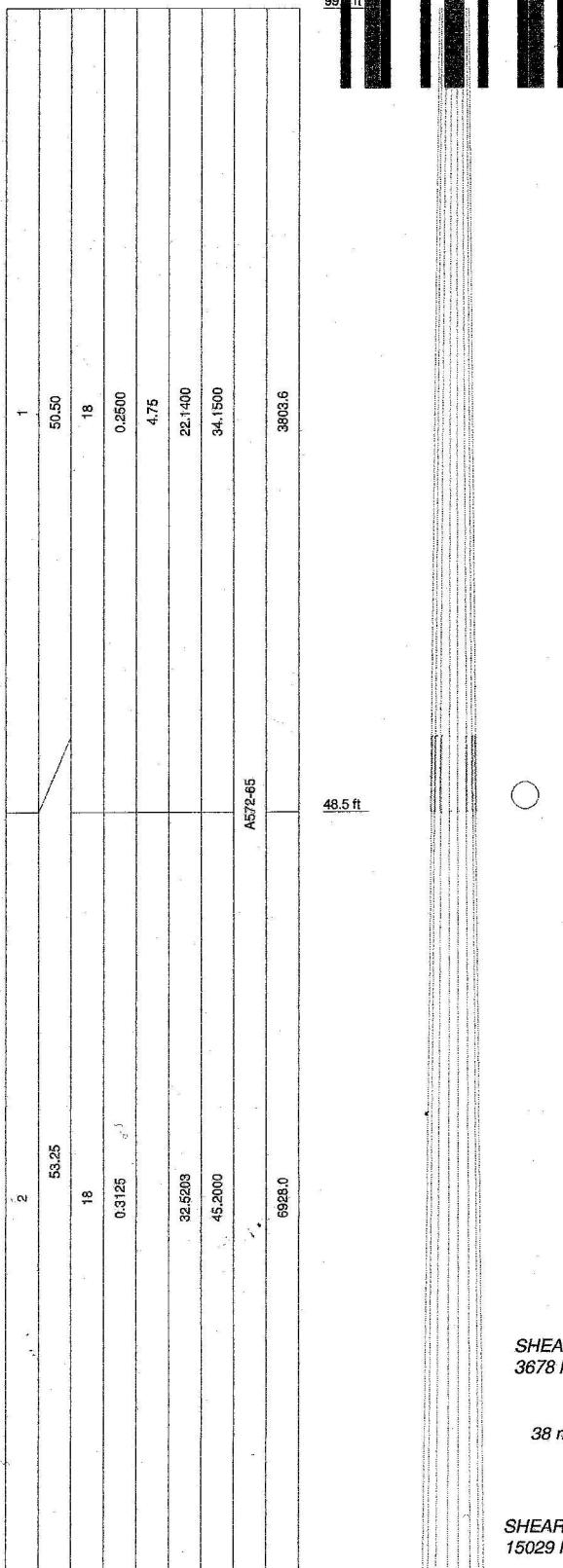
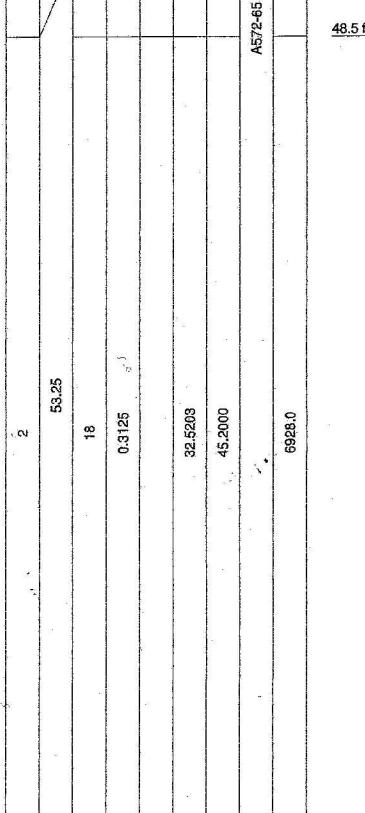
Antenna		Antenna		Antenna		Antenna	
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth

Antenna		Antenna		Antenna		Antenna	
Antenna Owner	Mount Height (ft)	Antenna Cl. (ft)	Quantity	Type	Manufacturer	Model	Azimuth

Analysis Results (% Maximum Usage)

Existing/Reserved + Future + Proposed Condition	
Tower Base (%)	54.2%
Foundation (%)	45.3%
Foundation Adequate?	Yes

Section	2	53.25
Length (ft)	18	50.50
Number of Sides	0.3125	0.5500
Thickness (in)	4.75	4.75
Socket Length (ft)	32.5208	22.1400
Top Dia (in)	45.2000	34.1500
Bot Dia (in)		
Grade	A572-65	3803.6
Weight (lb)	6928.0	



TORQUE 57 lb-ft
REACTIONS - 85 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
SitePro 12.5' T-Arm	97	(2) RRUS 12	97
SitePro 12.5' T-Arm	97	RRUS E2	97
SitePro 12.5' T-Arm	97	RRUS E2	97
AM-X-CD-16-65-001-RET w/ Mount Pipe	97	RRUS E2	97
AM-X-CD-16-65-001-RET w/ Mount Pipe	97	RRUS 32	97
AM-X-CD-16-65-001-RET w/ Mount Pipe	97	RRUS 32	97
AM-X-CD-16-65-001-RET w/ Mount Pipe	97	RRUS 32	97
(2) KRC 161 286-1 (A2 Module)	97	(2) KRC 161 286-1 (A2 Module)	97
(3) HPA-65R-BUU-H6 w/ Mount Pipe	97	(2) KRC 161 286-1 (A2 Module)	97
(3) HPA-65R-BUU-H6 w/ Mount Pipe	97	Collar Mount	95
(3) HPA-65R-BUU-H6 w/ Mount Pipe	97	DC6-48-60-18-BF Surge Suppression Unit	95
DTMABP7819VG12A	97	DC6-48-60-18-BF Surge Suppression Unit	95
DTMABP7819VG12A	97	DC6-48-60-18-BF Surge Suppression Unit	95
(2) RRUS 11	97	DC6-48-60-18-BF Surge Suppression Unit	95
(2) RRUS 11	97	SitePro 12.5' T-Arm	93
(2) RRUS 11	97	SitePro 12.5' T-Arm	93
(2) RRUS 12	97	SitePro 12.5' T-Arm	93
(2) RRUS 12	97	SitePro 12.5' T-Arm	93

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower is located in Middlesex County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 38 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 50 mph wind.
5. TOWER RATING: 54.2%



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

January 16, 2014

Honorable Carl P. Fortuna
1st Selectman, Town of Old Saybrook
Town Hall 302 Main Street
Old Saybrook, CT 06475

**Second Amended Notice of Exempt Modification: Existing Telecommunications Facility at
1363 Boston Post Road, Old Saybrook**

Dear Mr. Fortuna:

On November 14, 2013 you were mailed a copy of an AT&T Notice of Exempt Modification to the Connecticut Siting Council for the referenced telecommunications facility; and on January 6, 2014 you were mailed an Amended Notice of Exempt Modification. This Second Amended Notice of Exempt Modification is intended to replace both previous filings in their entirety.

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