



Centek Engineering, Inc.
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Steven L. Levine
Real Estate Consultant

HAND DELIVERED

April 16, 2014

Honorable Robert Stein, Chairman, and Members
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Existing Tower Located at 148 Roberts Street, East Hartford, Connecticut (owner, American Tower)

Dear Chairman Stein and Members of the Council:

Centek Engineering, Inc. is pleased to submit this application on behalf of New Cingular Wireless PCS, LLC ("AT&T").

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, AT&T hereby requests an order from the Connecticut Siting Council ("Council") approving the proposed shared use by AT&T of an existing tower at 148 Roberts Street, East Hartford, Connecticut. AT&T operates under licenses issued by the Federal Communications Commission ("FCC") to provide cellular and PCS mobile telephone service in Hartford County, which includes the area to be served by AT&T's proposed installation.

A copy of this letter is being sent to the Mayor of the Town of East Hartford.

Existing Facility

The East Hartford facility is located on the north side of Roberts Street, between Hillside Street and Forbes Street. Site coordinates (NAD83) are N41° 46' 24" and W72° 36' 49".

The facility is owned and operated by American Tower Corporation, 3500 Regency Parkway, Suite 100, Cary, NC 27518.

The East Hartford facility was initially approved by the Council in Docket 228. It consists of a 130-foot monopole within a 50' x 78' compound surrounded by a chain link fence.

Sprint, Verizon Wireless, Metro PCS, and Clearwire currently operate wireless communications equipment at the facility.

Proposed Shared Use of the Tower

Attached to this Notice are a location map; site plans and a tower profile; and a structural analysis report that shows the tower will be structurally capable of supporting the proposed AT&T telecommunications equipment at 90 feet above ground level.

As shown in the attached drawings and structural analysis, and as further described below, AT&T proposes to install the following equipment at the 90-ft level:

- One Low Profile Platform with handrails.
- Twelve CCI HPA-65R-BUU-H8 antennas.
- Six TMA's.
- Twenty One RRU's and six associated A2 Modules.
- Four Raycap DC6-48-60-18-8F Surge Arrestors.
- Twelve lines 1 5/8 inch coax.
- Three lines 1/2 inch coax.
- Two fiber and eight DC lines.

An 11.5 x 18 ft prefab concrete equipment shelter will be installed on an existing concrete foundation.

Statutory Considerations

AT&T requests the Council to find that the proposed shared use of the tower facility satisfies the criteria stated in C.G.S. §16-50aa, and to issue an order approving the proposed use.

C.G.S. §16-50aa provides that, upon written request for approval of a proposed shared use, "If the Council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the Council shall issue an order approving such shared use" (C.G.S §16-50aa(c)(1)).

The shared use of the tower satisfies the criteria in C.G.S §16-50aa as follows:

- A. **Technical Feasibility.** The tower will be structurally sound and capable of supporting the proposed shared use of the AT&T antennas at 90 feet AGL. The proposed shared use of this tower is therefore technically feasible.
- B. **Legal Feasibility.** Under C.G.S §16-50aa, the Council has been authorized to issue an order approving the proposed shared use of a tower facility such as the facility located at Roberts Street in East Hartford (C.G.S §16-50aa(c) (1)). Under the authority vested in the Council by C.G.S §16-50aa, an order approving the shared use of the tower would satisfy AT&T's Siting Council obligations and permit it to obtain a building permit for the proposed installation.

C. **Environmental Feasibility.** The proposed shared use of this tower facility would have a minimal environmental effect for the following reasons:

1. The proposed installation would not increase noise levels at the existing facility by six decibels or more.

2. The proposed installation would have an insignificant incremental visual impact and would not cause any significant change or alteration in the physical or environmental characteristics of the property. The addition of the proposed antennas would not increase the height of the tower. In addition, Drawing C-1, attached, shows the area leased from the property owners by American Tower and approved by the Council in Docket 228. American Tower maintains a fenced 50 ft x 78 ft equipment compound at the northern end of the lease area. Because AT&T's construction will take place entirely within the existing equipment compound, the AT&T installation will extend neither the existing fenced compound nor the overall American Tower lease area.

3. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The cumulative "worst-case" power density would be 77.5 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Therefore, total power density levels resulting from AT&T's use of the tower facility would be within applicable standards.

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 *							58.47
AT&T LTE	90	700 Band	1	500	0.0222	0.4667	4.76
AT&T LTE	90	1900 Band	1	500	0.0222	1.0000	2.22
AT&T LTE	90	2300 Band	1	500	0.0222	1.0000	2.22
AT&T UMIS	90	880 - 894	2	500	0.0444	0.5867	7.57
AT&T UMIS	90	1900 Band	1	500	0.0222	1.0000	2.22
Total							77.5%

* Per CSC Records

4. The proposed installation would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is completed (approximately six weeks), the proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

D. **Economic Feasibility.** AT&T has entered into an agreement with American Tower to share use of the tower. The proposed facility sharing is therefore economically feasible.

E. **Public Safety Concerns.** As stated above, the existing tower is structurally capable of supporting AT&T's proposed antennas, and radio frequency emissions fall well below State and Federal safety standards. AT&T is not aware of any other public safety concerns

relative to the proposed sharing of the tower. In fact, the provision of new or improved wireless coverage in the area is expected to enhance the safety and welfare of East Hartford's residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower at Roberts Street in East Hartford satisfies the criteria stated in C.G.S. §16-50aa and advances the General Assembly's and the Council's goal of preventing the proliferation of communication towers in Connecticut. AT&T therefore respectfully requests that the Council issue an order approving the proposed shared use. Thank you for your attention to this matter.

Please call Mr. Mark Appleby in AT&T's Rocky Hill office at (860) 513-7536 or the undersigned at (860) 830-0380 should you have any questions concerning this tower sharing request. Thank you for your consideration in this matter.

Sincerely,



Steven L. Levine
Real Estate Consultant

cc: Honorable Marcia A. Leclerc, Mayor, Town of East Hartford

Attachments



WIRELESS COMMUNICATIONS FACILITY

CT2419

EAST HARTFORD

148 ROBERTS STREET

EAST HARTFORD, CT 06118

PROJECT SUMMARY

- THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF TWELVE (12) DIRECTIONAL PANEL ANTENNAS TO BE MOUNTED ON AN EXISTING ADJACENT CONCRETE FOUNDATION WITHIN THE WIRELESS COMMUNICATIONS USE AREA.
- A TOTAL OF TWELVE (12) DIRECTIONAL PANEL ANTENNAS ARE TO BE MOUNTED ON AN EXISTING ADJACENT CONCRETE FOUNDATION WITHIN THE WIRELESS COMMUNICATIONS USE AREA.
- ELECTRIC UTILITY SHALL BE ROUTED UNDERGROUND TO THE AZE EQUIPMENT SHELTER FROM AN EXISTING UTILITY MANSIONED LOCATED AT THE INTERSECTION OF 87' ABOVE THE EXISTING TOWER BASE FLAT.
- CONCRETE FOUNDATION SHALL BE CONSTRUCTED TO SUPPORT THE AZE EQUIPMENT SHELTER FROM AN EXISTING TOWER CABINET LOCATED WITHIN THE EXISTING FENCED COMPOUND.

PROJECT INFORMATION

AT&T SITE NUMBER: CT2419
 EAST HARTFORD
 148 ROBERTS STREET
 EAST HARTFORD, CT 06118

LESSEE/APPLICANT:
 500 INTERPULSE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

ENGINEER:
 CENTER ENGINEERING, INC.
 600 WASHINGTON STREET, SUITE 200
 BRANFORD, CT 06405

PROJECT COORDINATES:
 LATITUDE: 41°-46'-24.03"N
 LONGITUDE: 72°-35'-48.00"W
 UTM COORDINATES: 18QUB 600 000
 (REFERENCED FROM CS2 DATABASE)

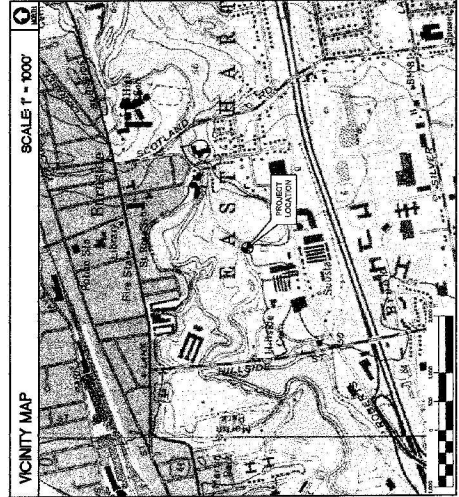
SHEET INDEX

SHT. NO.	DESCRIPTION	REV.
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SITE DIRECTIONS

FROM: 800-2' HILL, CONCRETOUT

1. LEFT TURN OFF HILL, EMERGENCY DRIVE TOWARD CAPITAL BLDG
2. TURN LEFT ONTO CAPITAL BLDG
3. TURN LEFT TO MAKE RIGHT TURN
4. MERGE ONTO I-91 N
5. TAKE EXIT OFF I-91 N
6. TAKE EXIT OFF I-91 N
7. CONDUIT ONTO CT-15 N
8. TURN RIGHT ONTO SWEET LAKE
9. TURN LEFT ONTO ROBERTS ST
10. TURN LEFT ONTO ROBERTS ST AND THE DESTINATION WILL BE ON THE LEFT



GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN CONNECTION WITH THE WORK AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
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9. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK IS TO BE DONE IN AN AREA WHERE THERE ARE LOCAL, STATE, FEDERAL, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANIES' STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
13. ANY AND ALL ERRORS, OMISSIONS AND MISSED ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE A/E/C CONSTRUCTION MANAGER FOR REVIEW. THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO EXTRA WILL BE ALLOWED FOR MISSED ITEMS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE COMMENCEMENT OF WORK UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE APPROVAL AND SIGNATURE OF THE ENGINEER. NO WORK SHALL BE PERFORMED WITHOUT THE APPROVAL AND SIGNATURE OF THE ENGINEER.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, GRADES, AND LOCATIONS OF ALL EXISTING UTILITIES AND TELECOMMUNICATION SERVICE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. COORDINATION LAYOUT, FINISHING AND INSTALLATION OF CONDUIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AT 1-800-922-4445. ALL EXCAVATION WORK SHALL MAINTAIN AND PROTECT EXISTING UTILITIES THROUGHOUT PROJECT PERIOD.
21. CONTRACTOR SHALL COMPLY WITH ALL ENVIRONMENTAL, ENGINEER ON BEHALF OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, APPROVALS AND BUILDING CODES AS REQUIRED BY THE 2005 CONSTRUCTION CODE, INTERNATIONAL ELECTRICAL CODE, AND LOCAL CODES.

AT&T MOBILITY
 WIRELESS COMMUNICATIONS FACILITY
 EAST HARTFORD
 EAST NUMBER CT2419
 148 ROBERTS STREET
 EAST HARTFORD, CT 06118

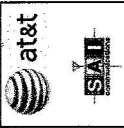
DATE: 03/26/14
 SCALE: AS NOTED
 JOB NO. 11621.000

TITLE SHEET
 T-1

Sheet No. 1 of 1

REV.	DATE	BY	DESCRIPTION
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0	03/27/14	DMO	CONSTRUCTION - CLIENT REVIEW

REV.	DATE	BY	CHK'D BY	DESCRIPTION
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0	03/21/14	HAR	DWP	CONSTRUCTION CLIENT REVIEW

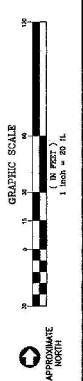
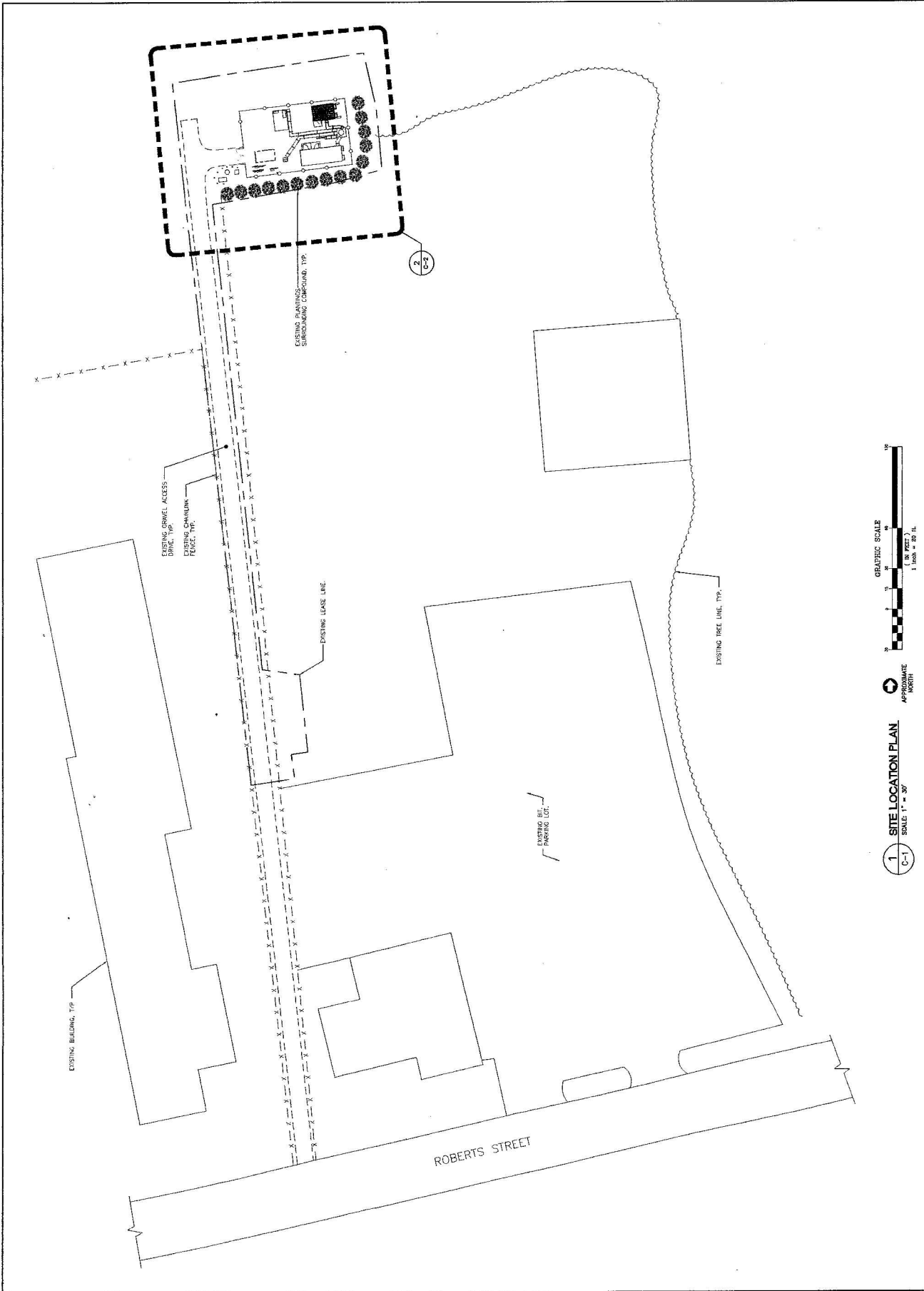


CENTER
 Consulting & Services
 2000 Westfield Road
 632 Westfield Road
 Westfield, CT 06106
 www.CenterGroup.com

AT&T MOBILITY
 WIRELESS COMMUNICATIONS FACILITY
EAST HARTFORD
SITE NUMBER CT249
148 ROBERTS STREET
EAST HARTFORD, CT 06183

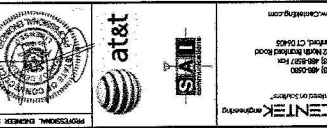
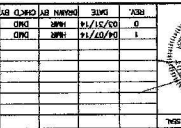
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SITE LOCATION PLAN
C-1
 Sheet No. 3 of 13



1
C-1
 SITE LOCATION PLAN
 SCALE: 1" = 30'

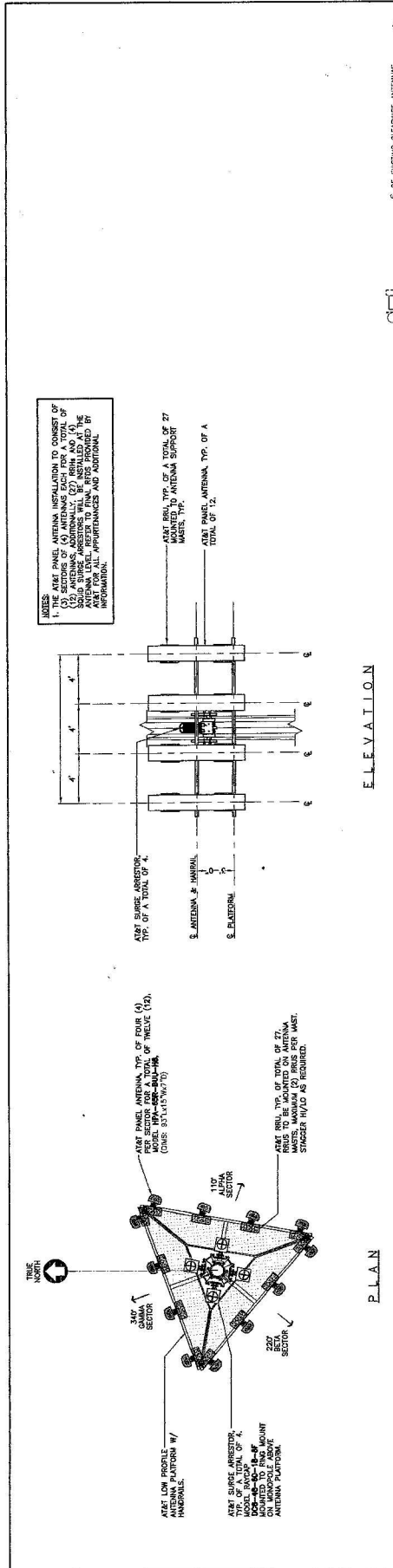
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AT&T MOBILITY
EAST HARTFORD
SITE NUMBER: CT249
48 ROBERTS STREET
EAST HARTFORD, CT 06183

DATE	03/21/14
SCALE	AS NOTED
SHEET NO.	14021.000

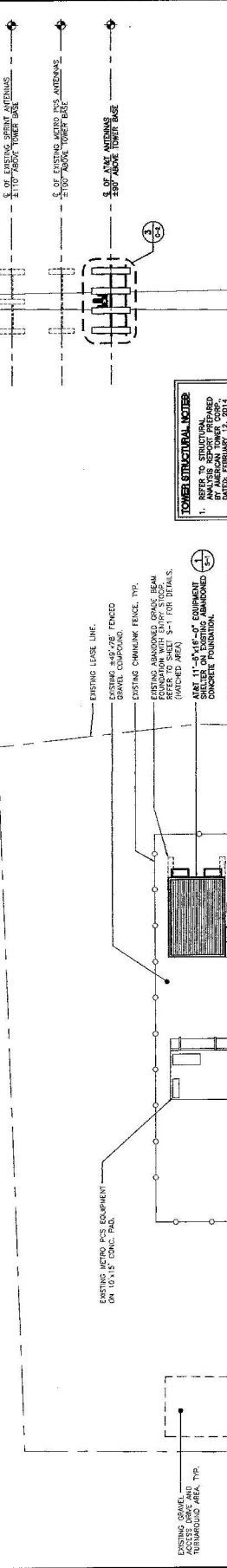
COMPOUND PLAN, ELEVATION AND ANTENNA MOUNTING DETAILS
C-2



PLAN

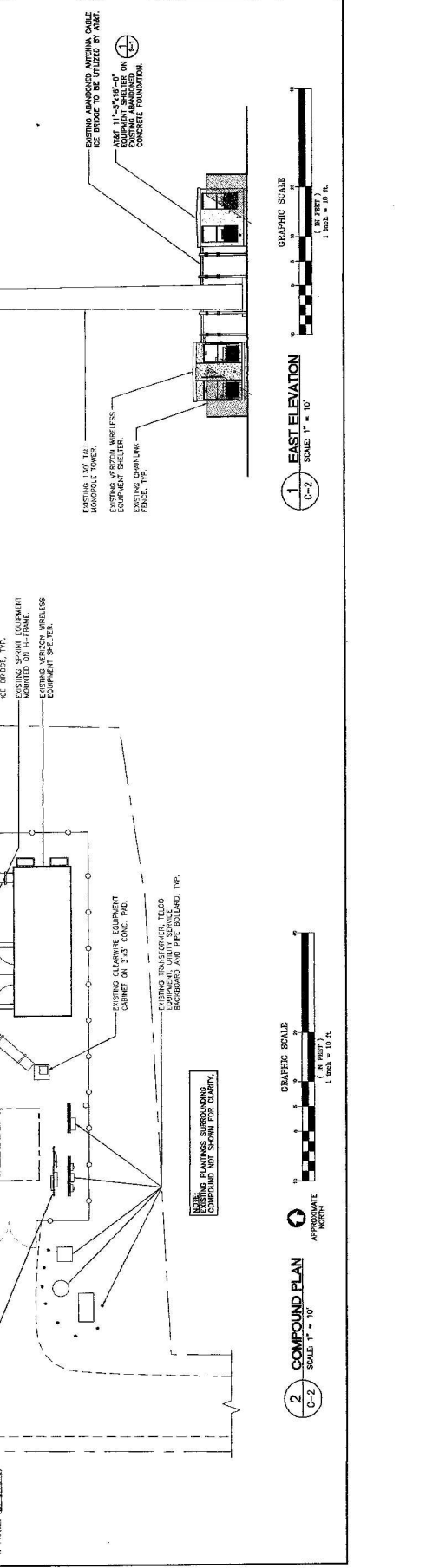
ELEVATION

3 ANTENNA MOUNTING CONFIGURATION DETAILS



ELEVATION

2 ANTENNA MOUNTING CONFIGURATION DETAILS



COMPOUND PLAN

ELEVATION

1 ANTENNA MOUNTING CONFIGURATION DETAILS

NOTES:
 1. THE AT&T PANEL ANTENNA INSTALLATION TO CONSIST OF (1) AT&T PANEL ANTENNA, (2) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (3) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (4) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (5) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (6) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (7) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (8) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (9) 11'-5 1/2" x 15'-0" MONOPOLE TOWER, (10) 11'-5 1/2" x 15'-0" MONOPOLE TOWER.

2. ALL ANTENNAS AND COAX TO BE INSTALLED IN ACCORDANCE WITH THE AT&T ANTENNA AND FINAL AT&T DATA SHEET.

3. REFER TO STRUCTURAL DRAWINGS BY AMERICAN TOWER CORP. FOR ALL STRUCTURAL DETAILS. P/N: 5480272

4. ALL ANTENNAS AND COAX TO BE INSTALLED IN ACCORDANCE WITH THE AT&T ANTENNA AND FINAL AT&T DATA SHEET.

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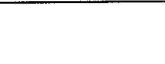
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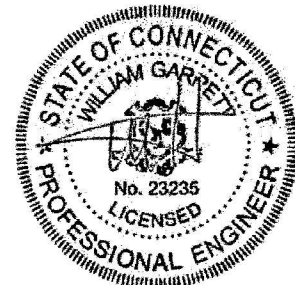


AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 130 ft Monopole
ATC Site Name : East Hartford, CT
ATC Site Number : 370626
Engineering Number : 56806222
Proposed Carrier : AT&T Mobility
Carrier Site Name : East Hartford Roberts St
Carrier Site Number : CT3495S/FA#10552892
Site Location : 148 Roberts St.
East Hartford, CT 06108-0000
41.773306,-72.613417
County : Hartford
Date : February 12, 2014
Max Usage : 69%
Result : Pass

Carlos E. Hoyos, E.I.
Structural Engineer I



Feb 12 2014 10:42 AM



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 130 ft monopole to reflect the change in loading by AT&T Mobility.

Supporting Documents

Tower Drawings	Glen Martin Engineering Drawing #MP1400800-0001, dated August 20, 2003
Foundation Drawing	Glen Martin Engineering Drawing #GME-03309, dated August 26, 2003
Geotechnical Report	Clarence/Welti Project Name: The Marcus Group, dated April 25, 2003

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	95 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2003 IBC w/ 2005 CT Supplement & 2009 CT Amendment
Structure Class:	II
Exposure Category:	B
Topographic Category:	1

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Mount Elev. ¹ (ft)	Qty.	Antenna	Mount Type	Lines	Carrier
128.0	3	RCU	Side Arms	(3) 1 1/4" Coax (3) 1/2" Coax (3) 5/8" Coax (2) 2" Conduit	Clearwire
	3	DragonWave Horizon Compact			
	3	BTS			
	3	DragonWave A-ANT-18G-2-C			
	3	Argus LLPX310R			
119.7	3	Alcatel-Lucent RRH2x40-AWS	Low Profile Platform	(18) 1 5/8" Coax (1) 1 5/8" Hybriflex	Verizon
	3	Antel BXA-171063-8CF-EDIN-X			
	3	Antel BXA-185063/8CF			
	6	Decibel DB844G65ZAXY			
	1	RFS DB-T1-6Z-8AB-OZ			
3	Antel BXA-70083-6CF-EDIN-X				
110.0	9	48" x 12" Panel	Low Profile Platform	(9) 1 5/8" Coax	Sprint Nextel
100.0	6	Andrew ATM200-A20	T-Arms	(12) 1 5/8" Coax (1) 3/8" Coax	T-Mobile
	6	Andrew HBX-6516DS-VTM (6.5" W)			
70.0	1	2' Std. Dish	Pipe	(1) 1 5/8" Coax	Sprint Nextel
50.0	1	GPS	Side Arm	(1) 1/2" Coax	

Proposed Equipment

Elevation ¹ (ft)		Qty.	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
90.0	90.0	6	14" x 9" TTA	Platform w/ Handrails	(3) 1/2" Coax (12) 1 5/8" Coax (8) 0.76" Cable (2) 0.39" Fiber	AT&T Mobility
		4	Raycap DC6-48-60-18-8F			
		6	Ericsson RRUS A2 Module			
		9	Ericsson RRUS 12 w/ S.S.			
		3	Ericsson RRUS-32			
		9	Ericsson RRUS-11			
		12	CCI HPA-65R-BUU-H8			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax inside the pole shaft.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	44%	Pass
Shaft	69%	Pass
Base Plate	44%	Pass
Flanges	7%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (Kips-Ft)	2,740.2	3,699.3	2,680.1	72%
Shear (Kips)	28.5	38.4	32.7	85%

* The design reactions are factored by 1.35 per ANSI/TIA-222-G, Sec. 15.5.1

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection and Sway*

Antenna Elevation (ft)	Deflection (ft)	Sway (Rotation) (°)
90.0	0.794	1.004

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to ATC Tower Services, Inc. and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. ATC Tower Services, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

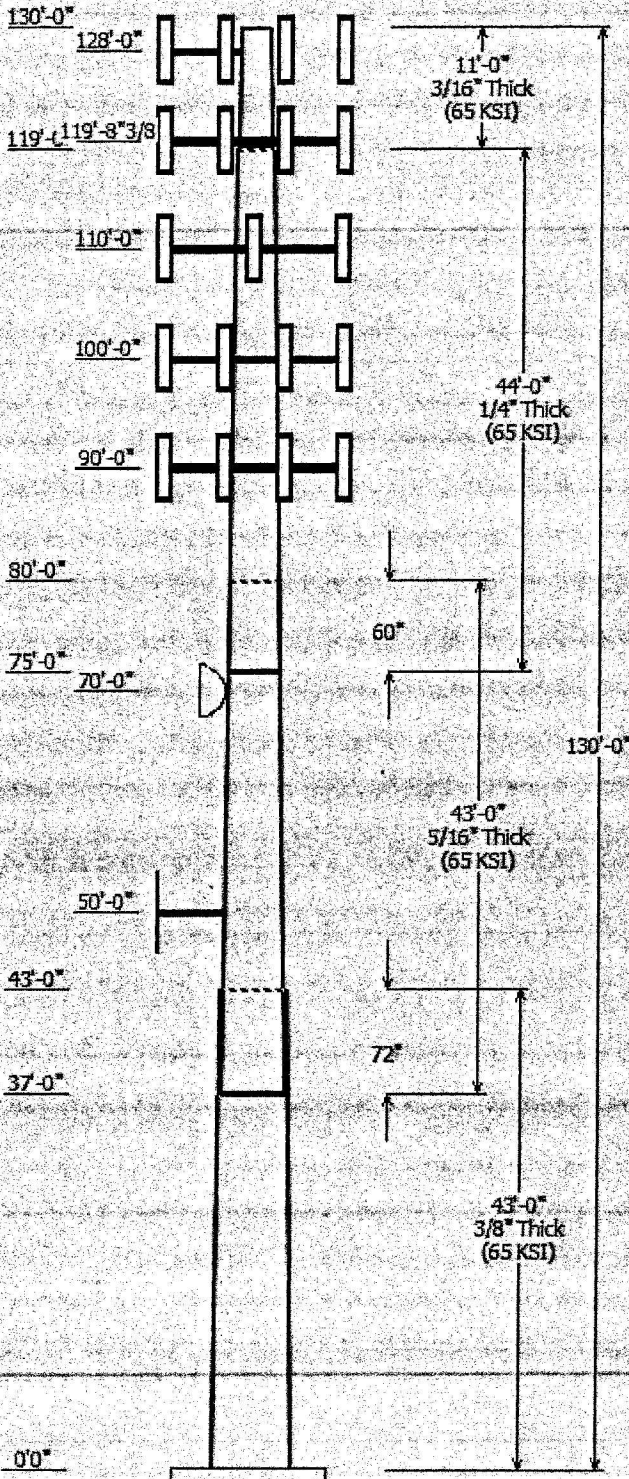
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Job Information	
Pole : 370626	Code: ANSI/TIA-222 Rev G
Description : 130 ft. Monopole	
Client : AT&T MOBILITY	Struct Class : II
Location : East Hartford, CT	
Shape : 16 Sides	Exposure : B
Height : 130.00 (ft)	Topo : 1
Base Elev (ft): 0.00	
Taper: 0.24857(in/ft)	

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)		Thick Joint (in)	Type	Overlap		Steel Grade (ksi)
		Top	Bottom			Length (in)	Taper (in/ft)	
1	43.000	38.50	49.19	0.375		0.000	0.248577	65
2	43.000	29.92	40.61	0.313	Slip Joint	72.000	0.248577	65
3	44.000	20.73	31.67	0.250	Slip Joint	60.000	0.248577	65
4	11.000	18.00	20.73	0.188	Butt Joint	0.000	0.248577	65

Discrete Appurtenance				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	
128.000	128.000	3	Argus LLPX310R	
128.000	128.000	3	DragonWave A-ANT-18G-2-C	
128.000	128.000	3	BTS	
128.000	128.000	3	DragonWave Horizon Compact	
128.000	128.000	3	RCU	
128.000	128.000	1	Side Arms	
119.700	119.700	3	Antel BXA-70063/6CF	
119.700	119.700	1	RFS DB-T1-6Z-8AB-0Z	
119.700	119.700	6	Decibel DB844G65ZAXY	
119.700	119.700	3	Antel BXA-185063/8CF	
119.700	119.700	3	Antel BXA-171063-8BF-EDIN-X	
119.700	119.700	3	Alcatel-Lucent RRH2x40-AWS	
119.700	119.700	1	Flat Low Profile Platform	
110.000	110.000	9	48" x 12" Panel	
110.000	110.000	1	Round Low Profile Platform	
100.000	100.000	6	Andrew HBX-6516DS-VTM	
100.000	100.000	6	Andrew ATM200-A20	
100.000	100.000	3	Round T-Arm	
90.000	90.000	12	CCI HPA-65R-BUU-H8	
90.000	90.000	9	Ericsson RRUS-11	
90.000	90.000	3	Ericsson RRUS-32	
90.000	90.000	9	Ericsson RRUS 12 w/ S.S.	
90.000	90.000	6	Ericsson RRUS A2 Module	
90.000	90.000	4	Raycap DC6-48-60-18-8F	
90.000	90.000	6	14" x 9" TTA	
90.000	90.000	1	Flat Platform w/ Handrails	
70.000	70.000	1	2' Std. Dish	
70.000	70.000	1	Flush Mounts	
50.000	50.000	1	GPS	
50.000	50.000	1	Flat Side Arm	

Linear Appurtenance			
Elev (ft)	From To	Description	Exposed
			To Wind
0.000	50.000	1/2" Coax	No
0.000	70.000	1 5/8" Coax	No
0.000	90.000	0.39" Fiber	No
0.000	90.000	0.76" Cable	No
0.000	90.000	1 5/8" Coax	No
0.000	90.000	1/2" Coax	No
0.000	100.0	1 5/8" Coax	Yes

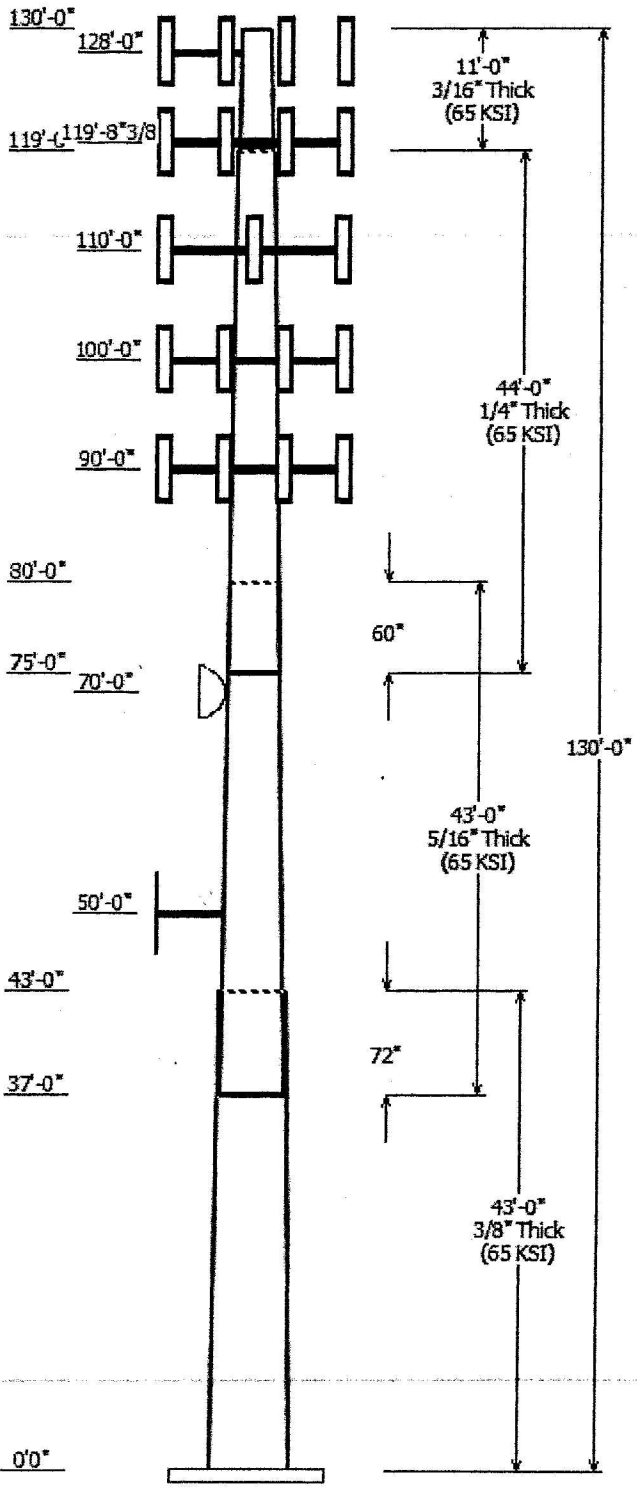


0.000	100.0	3/8" Coax	Yes
0.000	110.0	1 5/8" Coax	No
0.000	119.7	1 5/8" Coax	No
0.000	119.7	1 5/8" Coax	Yes
0.000	119.7	1 5/8" Hybriflex	Yes
0.000	128.0	1 1/4" Coax	No
0.000	128.0	1/2" Coax	No
0.000	128.0	2" Conduit	No
0.000	128.0	5/8" Coax	No

Load Cases	
1.2D + 1.6W	95.00 mph with No Ice
0.9D + 1.6W	95.00 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50.00 mph with 1.00 in Radial Ice
1.0D + 1.0W	60.00 mph Serviceability

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	2680.07	32.69	39.08
0.9D + 1.6W	2656.70	32.67	29.29
1.2D + 1.0Di + 1.0Wi	754.57	8.56	80.06
1.0D + 1.0W	672.22	8.26	32.61

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	70.00	5.726	0.802





Centek Engineering, Inc.
63-2 North Branford Road
Branford, Connecticut 06405
Phone: (203) 488-0580
Fax: (203) 488-8587

Steven L. Levine
Real Estate Consultant

April 16, 2014

Honorable Marcia A. Leclerc
Mayor, Town of East Hartford
Town Hall, 740 Main Street
East Hartford, CT 06108

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Existing Tower Located at 148 Roberts Street, East Hartford, Connecticut (owner, American Tower)

Dear Mayor Leclerc:

Centek Engineering, Inc. is pleased to submit this Tower Sharing Request on behalf of New Cingular Wireless PCS, LLC ("AT&T").

You were recently mailed a Connecticut Siting Council application dated April 14, 2014 for the tower facility at 148 Roberts Street. We were subsequently notified by the Council that the application was incorrectly submitted as a notice of exempt modification and should instead have been in the form of a tower sharing request. The original application has been withdrawn and the enclosed Tower Sharing Request submitted in its place. Please discard the April 14 application. We are sorry for any inconvenience this may cause you and the Town of East Hartford.

Consistent with the State of Connecticut's statutory policy of encouraging tower sharing, AT&T intends to install cellular antennas and equipment at an existing, multicarrier telecommunications tower at 148 Roberts Street in East Hartford.

The facility is owned and operated by American Tower Corporation under a lease with the property owners.

Pursuant to Connecticut General Statutes Section 16-50aa, AT&T has requested an order approving shared use of the tower from the Connecticut Siting Council.

As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies, we are providing you with copies of this letter and the attached letter to the Siting Council as notice of AT&T's plans.

The accompanying letter fully describes AT&T's proposal. However, if you have any questions or require any further information on our plans 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