

# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/esc](http://ct.gov/esc)

Daniel F. Caruso  
Chairman

January 7, 2009

Steven L. Levine  
Real Estate Consultant  
New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: **EM-CING-155-081205-** New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 457 South Quaker Lane, West Hartford, Connecticut.

Dear Mr. Levine:

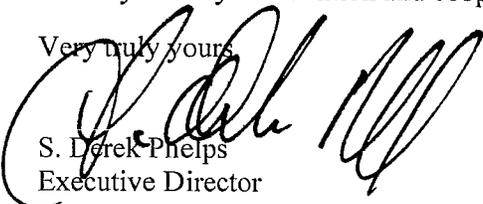
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 5, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

  
S. Derek Phelps  
Executive Director

SDP/MP/laf

c: The Honorable Scott Slifka, Mayor, Town of West Hartford  
Barry M. Feldman, Town Manager, Town of West Hartford  
Mila Limson, Town Planner, Town of West Hartford  
Hans Fiedler, T-Mobile



New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

**EM-CING-155-081205**

**Steven L. Levine**  
Real Estate Consultant

HAND DELIVERED

December 5, 2008

**RECEIVED**  
DEC 5 - 2008

**CONNECTICUT  
SITING COUNCIL**

Honorable Daniel F. Caruso, Chairman,  
and Members of the Connecticut Siting Council  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 457 South Quaker Lane, West Hartford (owner, T-Mobile)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, 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.

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. Modifications to the existing site include all or some of the following as necessary to bring the site into conformance with the plan:

- Replacement of existing panel antennas with new antennas or, installation of additional antennas of a size required to accommodate UMTS.
- Installation of small tower mount amplifiers (“TMA’s”) and/or diplexers to the platform on which the panel antennas are mounted to enhance signal reception.
- Installation of additional or larger coaxial cables as required.
- Installation of an additional equipment cabinet in existing shelters, or on existing or enlarged concrete pads.
- Radome enlargement for flagpole and “stick” structures to accommodate larger antennas and additional associated equipment.

None of these modifications will extend the height of the tower.

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. 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, New Cingular Wireless 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) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine  
Real Estate Consultant

Attachments

**NEW CINGULAR WIRELESS  
Equipment Modification**

457 South Quaker Lane, West Hartford  
 Site Number 5258  
 Former AT&T cell site  
 Exempt Modifications Approved 4/01, 8/02, 3/03

**Tower Owner/Manager:** T-Mobile

**Equipment Configuration:** Monopole

**Current and/or Approved:** Twelve FV90-16-02 panel antennas @ 107 ft AGL  
 Twelve runs 1 5/8 inch coax cable  
 Equipment Shelter

**Planned Modifications:** Remove all existing antennas  
 Install six Powerwave 7770 antennas (or equivalent) @ 107 ft  
 Install six TMA's and six diplexers @ 107 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 30.1 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 38.3 % of the standard.

**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 *							26.61
AT&T GSM *	107	1900 Band	4	275	0.0345	1.0000	3.45
<b>Total</b>							<b>30.1%</b>

\* Per CSC records

## Proposed

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							26.61
AT&T UMTS	107	880 - 894	1	500	0.0157	0.5867	2.68
AT&T GSM	107	1900 Band	2	427	0.0268	1.0000	2.68
AT&T GSM	107	880 - 894	4	296	0.0372	0.5867	6.34
<b>Total</b>							<b>38.3%</b>

\* Per CSC records

### Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed equipment modifications. (Natcomm Consulting Engrs, 12/1/08)



**New Cingular Wireless PCS, LLC**  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

**Steven L. Levine**  
Real Estate Consultant

December 5, 2008

James Francis, Town Manager  
Town of West Hartford  
Town Hall 50 South Main Street  
West Hartford, CT 06107

Re: Telecommunications Facility – 457 South Quaker Lane

Dear Mr. Francis:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) capability, 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 accompanying letter to the Siting Council fully describes AT&T’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine  
Real Estate Consultant

Enclosure



**NATCOMM**<sup>INC.</sup>  
CONSULTING ENGINEERS ●

## Structural Analysis Report

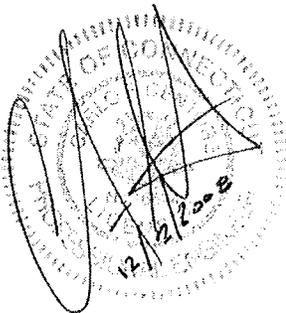
*120' Existing Monopole*

*New Cingular Wireless/AT&T Site Ref:  
5258 West Hartford - St. Marks*

*T-Mobile Site Ref: CT-11-178D  
457 Quaker Lane South  
West Hartford, CT*

*Natcomm Project No. 08165*

*Date: December 01, 2008*



**Prepared for:**

*New Cingular Wireless PCS LLC  
500 Enterprise Drive, Suite 3A  
Rocky Hill, CT 06067*

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Branford, CT 06405

Natcomm, Inc.  
Structural Monopole Analysis  
120' Existing PiROD Monopole  
West Hartford, CT  
December 01, 2008

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- TOWER CAPACITY.
- FOUNDATION AND ANCHORS.
- CONCLUSION.

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- GENERAL DESCRIPTION OF STRUCTURAL ANALYSIS PROGRAM.

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- RISATower DETAILED OUTPUT.
- ANCHOR BOLT AND BASE PLATE ANALYSIS.
- SPREAD FOOTING W/ PIER ANALYSIS.

### **SECTION 4– REFERENCE MATERIALS**

- PiROD DESIGN DRAWINGS dated May 01, 2001.
- NATCOMM DRAWING S-1 'TOWER FOUNDATION REINFORCEMENT' dated May 05, 2007.
- JGI Eastern Geo-technical Report - dated April 24, 2007.
- T-Mobile Site Modification Application - dated October 21, 2008.

## Introduction

The purpose of this report is to summarize the results of the non-linear, P- $\Delta$  structural analysis of the antenna installation proposed by AT&T on the existing monopole (tower) located in West Hartford, Connecticut.

The host tower is a 120-ft, four-section, sixteen sided, tapered monopole originally designed and manufactured by PiROD Inc., eng file no. A-116876, Revision B, dated May 05, 2000. The tower geometry, structure member sizes and foundation system information were taken from PiROD's design report. Antenna and appurtenance information were obtained from a previous structural analysis report prepared by Natcomm Inc., signed and sealed October 30, 2008.

The above reference materials are available for reference in Section 4 of this report.

The tower is made up of four (4) tapered vertical sections consisting of A572-65 pole sections. The vertical tower sections are slip joint connected. The diameter of the pole (flat-flat) is 22.27-in at the top and 49.06-in at the base.

AT&T proposes the removal of twelve (12) existing panel antennas and the installation of six (6) panel antennas, six (6) TMA's and six (6) Diplexer's mounted to the existing monopole. Refer to the Antenna and Appurtenance Summary below for a detailed description of the proposed antenna configuration.

## Antenna and Appurtenance Summary

The existing tower was designed to support several communication antennas. The existing, proposed and future loads considered in this analysis consist of the following:

- T-MOBILE (Existing):  
Antennas: Twelve (12) EMS RR65-19-00DP panel antennas, twelve (12) LNA's and one (1) 4-ft Dish on an existing 13' Low Profile Platform with a RAD center elevation of 120-ft above the existing tower base plate.  
Coax Cables: Twenty-five (25) 1-5/8"  $\varnothing$  coax cables running on the inside of the existing tower.
- VERIZON (Existing):  
Antennas: Six (6) Antel WPA-80090/4CF, six (6) Andrew DB948F85T2E-M panel antennas and one (1) GPS antenna on a 13' Low Profile Platform with a RAD center elevation of 100-ft above the existing tower base plate.  
Coax Cables: Twelve (12) 1-5/8"  $\varnothing$  coax cables running on the inside of the existing tower.

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Structural Monopole Analysis  
120' Existing PiROD Monopole  
West Hartford, CT  
December 01, 2008

- AT&T (Remove):  
Antennas: Twelve (12) existing panel antennas.
- **AT&T (Proposed):**  
**Antennas: Install six (6) Powerwave 7770 panel antennas, six (6) Powerwave LGP21401 TMA's and six (6) Powerwave LGP21903 Diplexer's all on an existing 13-ft Low Profile Platform at a RAD center elevation of 107-ft above the existing tower base plate.**
- AT&T (Existing to remain)  
Coax Cables: Twelve (12) 1-5/8"  $\varnothing$  coax cables running on the inside of the existing tower.

### Primary Assumptions Used in the Analysis

- The tower structure's theoretical capacity not including any assessment of the condition of the tower.
- The tower carries the horizontal and vertical loads due to the weight of antennas, ice load and wind.
- Tower is properly installed and maintained.
- Tower is in plumb condition.
- Tower loading for antennas and mounts as listed in this report.
- All bolts are appropriately tightened providing the necessary connection continuity.
- All welds are fabricated with ER-70S-6 electrodes.
- All members are assumed to be as specified in the original tower design documents or reinforcement drawings.
- All members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
- All member protective coatings are in good condition.
- All tower members were properly designed, detailed, fabricated, installed and have been properly maintained since erection.
- Any deviation from the analyzed antenna loading will require a new analysis for verification of structural adequacy.
- All coax cables to be installed within tower.
- A new porthole will not be required.

## Analysis

The existing tower was analyzed using a comprehensive computer program entitled RISATower. The program analyzes the tower, considering the worst case loading condition. The tower is considered as loaded by concentric forces along the tower shaft, and the model assumes that the shaft members are subjected to bending, axial, and shear forces.

The existing tower was analyzed for 80 mph basic wind speed (fastest mile) with no ice and 75% reduction of wind force with ½ inch accumulative ice to determine stresses in members as per guidelines of TIA/EIA-222-F-96 entitled "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures", the American Institute of Steel Construction (AISC) and the Manual of Steel Construction; Allowable Stress Design (ASD).

## Tower Loading

Tower loading was determined by the basic wind speed as applied to projected surface areas with modification factors per TIA/EIA-222-F, gravity loads of the tower structure and its components, and the application of ½" radial ice tower structure and its components.

Basic Wind Speed:	Hartford; v = 80 mph (fastest mile)	[Section 16 of TIA/EIA-222-F-96]
	West Hartford; v = 95 mph (3 second gust) equivalent to v = 77.5 mph (fastest mile)	[Appendix K of the 2005 CT Building Code Supplement]
	<i>TIA/EIA wind speed controls</i>	
Load Cases:	<u>Load Case 1</u> ; 80 mph wind speed w/ no ice plus gravity load – used in calculation of tower stresses and rotation. This load case typically controls the design of monopole towers.	[Section 2.3.16 of TIA/EIA-222-F-96]
	<u>Load Case 2</u> ; 69 mph wind speed w/ ½" radial ice plus gravity load – used in calculation of tower stresses. The 69 mph wind speed velocity represents 75% of the wind pressure generated by the 85 mph wind speed. This load case typically controls the design of lattice towers.	[Section 2.3.16 of TIA/EIA-222-F-96]
	<u>Load Case 3</u> ; Seismic – not checked	[Section 1610.1.3 of State Bldg. Code 2005] does not control in the design of this structure type

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Structural Monopole Analysis  
120' Existing PiROD Monopole  
West Hartford, CT  
December 01, 2008

## Tower Capacity

Tower stresses were calculated utilizing the structural analysis software RISATower. Allowable stresses were determined based on Table 5 of the TIA/EIA code with a 1/3 increase per Section 3.1.1.1 of the same code.

Calculated stresses were found to be within allowable limits. In Load Case 1, per RISATower "Section Capacity Table", this tower was found to be at **51.7%** of its total capacity.

## Foundation and Anchors

The existing foundation consists of a 6-ft square reinforced concrete pedestal and 16.67-ft square reinforced concrete pad bearing directly on existing sub grade. The existing foundation was previously reinforced by installing four (4) helical anchor details of which are outlined in design drawing 'S-1' prepared by Natcomm, LLC., dated May 29, 2007 available in Section 4 of this report. The sub-grade conditions used in the analysis of the existing foundation were obtained from Jaworski Geotech, Inc's (JGI) geotechnical report JGI project no. J2075170G, dated April 24, 2007 also available in Section 4 of this report. The monopole tower is connected to the pedestal by means of twelve (33) 1-1/4" diameter, A687 anchor bolts embedded approximately 4-ft 3-in into the concrete foundation structure.

Review of the foundation and anchor design consisted of verification of applied loads obtained from the tower design calculations and code checks of allowable stresses:

- The tower base reactions developed from the governing Load Case 1 were used in the verification of the foundation and its anchors:
  - Shear Force @ top of pedestal = **19 kips**
  - Moment @ top of pedestal = **1534 ft-kips**
  - Axial Force @ top of pedestal = **29 kips**
- The base plate, anchor bolts and the foundation are within allowable limits.
- Foundation resists two times the calculated wind load per the requirements of Section 3108.4.2 of the 2005 CT State Building Code Supplement to the 2003 International Building Code (IBC).
- The tower foundation was found to be at **99%** of its total capacity.

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120' Existing PiROD Monopole  
West Hartford, CT  
December 01, 2008

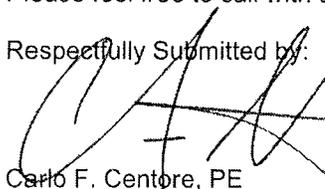
## Conclusion

This analysis shows that the subject tower **is adequate** to support the proposed modified antenna configuration.

The analysis is based, in part, on the information provided to this office by AT&T. If the existing conditions are different than the information in this report, Natcomm, Inc. must be contacted for resolution of any potential issues.

Please feel free to call with any questions or comments.

Respectfully Submitted by:

  
Carlo F. Centore, PE  
Principal ~ Structural Engineer



Natcomm, Inc.  
Structural Monopole Analysis  
120' Existing PiROD Monopole  
West Hartford, CT  
December 01, 2008

Standard Conditions for Furnishing of  
Professional Engineering Services on  
Existing Structures

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

- Information supplied by the client regarding the structure itself, its foundations, the soil conditions, the antenna and feed line loading on the structure and its components, or other relevant information.
- Information from the field and/or drawings in the possession of Natcomm, Inc. or generated by field inspections or measurements of the structure.
- It is the responsibility of the client to ensure that the information provide to Natcomm, 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 are in an un-corroded condition and have not deteriorated. It is therefore assumed that its capacity has not significantly changed from the "as new" condition.
- All services will be performed to the codes specified by the client, and we do not imply to meet any other codes or requirements unless explicitly agreed in writing. 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. In the absence of information to the contrary, all work will be performed in accordance with the latest revision of ANSI/ASCE10 & ANSI/EIA-222
- All services performed, results obtained, and recommendations made are in accordance with generally accepted engineering principles and practices. Natcomm, Inc. is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

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December 01, 2008

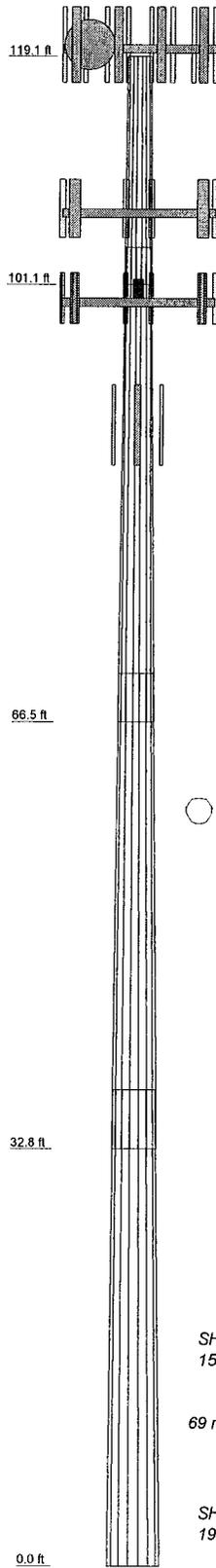
## GENERAL DESCRIPTION OF STRUCTURAL ANALYSIS PROGRAM

RISATower, is an integrated structural analysis and design software package for Designed specifically for the telecommunications industry, RISATower, formerly ERITower, automates much of the tower analysis and design required by the TIA/EIA 222 Standard.

### RISATower Features:

- RISATower can analyze and design 3- and 4-sided guyed towers, 3- and 4-sided self-supporting towers and either round or tapered ground mounted poles with or without guys.
- The program analyzes towers using the TIA-222-G (2005) standard or any of the previous TIA/EIA standards back to RS-222 (1959). Steel design is checked using the AISC ASD 9th Edition or the AISC LRFD specifications.
- Linear and non-linear (P-delta) analyses can be used in determining displacements and forces in the structure. Wind pressures and forces are automatically calculated.
- Extensive graphics plots include material take-off, shear-moment, leg compression, displacement, twist, feed line, guy anchor and stress plots.
- RISATower contains unique features such as True Cable behavior, hog rod take-up, foundation stiffness and much more.

Section	1	2	3	4	5.6	6.7	17.2
Length (ft)	18.00	37.50	37.50	37.50	32.8 ft	32.8 ft	0.0 ft
Number of Sides	16	16	16	16			
Thickness (in)	0.2500	0.3125	0.3750	0.3750			
Lap Splice (ft)	2.92		4.67				
Top Dia (in)	22.2700	24.8949	32.5012	39.8482			
Bot Dia (in)	26.0000	34.0625	41.7500	48.0625			
Grade			A572-65				
Weight (K)	1.2	3.7	5.6	6.7			



### DESIGNED APPURTENANCE LOADING

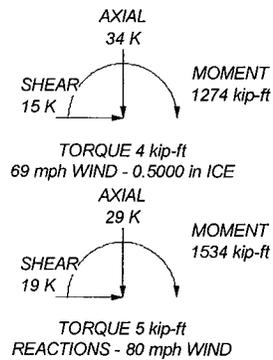
TYPE	ELEVATION	TYPE	ELEVATION
Valmont 13' Low Profile Platform (T-Mobile)	120	(2) LGP21903 Diplexer (ATTI - proposed)	107
(4) RR65-19-00DP (T-Mobile)	120	Valmont 13' Low Profile Platform (ATTI - existing)	107
(4) RR65-19-00DP (T-Mobile)	120	Valmont 13' Low Profile Platform (Verizon)	100
(4) RR65-19-00DP (T-Mobile)	120	(2) WPA-80090/4CF (Verizon)	100
(4) TMA 10"x8"x3" (T-Mobile)	120	(2) WPA-80090/4CF (Verizon)	100
(4) TMA 10"x8"x3" (T-Mobile)	120	(2) WPA-80090/4CF (Verizon)	100
(4) TMA 10"x8"x3" (T-Mobile)	120	(2) DB948F85T2E-M (Verizon)	100
4 FT DISH	120	(2) DB948F85T2E-M (Verizon)	100
(2) 7770.00 (ATTI - proposed)	107	(2) DB948F85T2E-M (Verizon)	100
(2) 7770.00 (ATTI - proposed)	107	(2) DB948F85T2E-M (Verizon)	100
(2) 7770.00 (ATTI - proposed)	107	(2) DB948F85T2E-M (Verizon)	100
(2) 7770.00 (ATTI - proposed)	107	GPS (Verizon)	100
(2) LPG21401 TMA (ATTI - proposed)	107	742-213 (Pocket - reserved)	90
(2) LPG21401 TMA (ATTI - proposed)	107	Uni-Tri Bracket (Pocket - reserved)	90
(2) LPG21401 TMA (ATTI - proposed)	107	742-213 (Pocket - reserved)	90
(2) LGP21903 Diplexer (ATTI - proposed)	107	742-213 (Pocket - reserved)	90
(2) LGP21903 Diplexer (ATTI - proposed)	107		

### MATERIAL STRENGTH

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

### TOWER DESIGN NOTES

1. Tower designed for a 80 mph basic wind in accordance with the TIA/EIA-222-F Standard.
2. Tower is also designed for a 69 mph basic wind with 0.500 in ice.
3. Deflections are based upon a 50 mph wind.
4. TOWER RATING: 51.7%



<b>NATCOMM INC</b>		Job: <b>120' Pirod Monopole</b>	
Project: <b>457 Quaker Lane South, West Hartford, CT</b>			
Client: AT&T	Drawn by: Staff	App'd:	
Code: TIA/EIA-222-F	Date: 12/01/08	Scale: NTS	
Phone: (203) 488-0580	FAX: (203) 488-8587	Path: J:\jobs\0818500\W\ERI\Figs\120' Pirod Monopole W Hartford, CT.dwg	
		Dwg No: E-1	