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

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

September 29, 2008

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

RE: **EM-CING-046-080909** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 206 Everett Road, Easton, 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 September 9, 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/jb

c: The Honorable Thomas A. Herrmann, First Selectman, Town of Easton
Philip Doremus, Planning & Zoning Official, Town of Easton
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP

EM-CING-046-080909

The new at&t Your world. Delivered.

raising the bar

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

ORIGINAL

HAND DELIVERED

September 9, 2008

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 206 Everett Road, Easton (owner, Sprint-Nextel)

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

CINGULAR WIRELESS
Equipment Modification

206 Everett Road, Easton
Site Number 5446
Former AT&T Cell Site
Exempt Modification 9/02; Petition 627

Tower Owner/Manager: Sprint - Nextel

Equipment configuration: Monopole

Current and/or approved: Three Allgon 7250 panel antennas @ 100 ft c.l.
Six runs 7/8 inch coax

Planned Modifications: Remove all three existing antennas and all coax at 100 ft
Remove existing antennas and T-arms at 118 ft
Install new low-profile platform at 118 ft
Install six Powerwave 7770 antennas @ 118 ft c.l.
Install six TMA's and six diplexers @ 118 ft
Install twelve runs 1 ¼ inch coax
Remove one outdoor equipment cabinet
Install one outdoor equipment cabinet on existing concrete pad

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 20.9 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 19.7 % 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 *							10.09
Cingular GSM *	100	1900 Band	12	250	0.1079	1.0000	10.79
Total							20.9%

* Per CSC records.

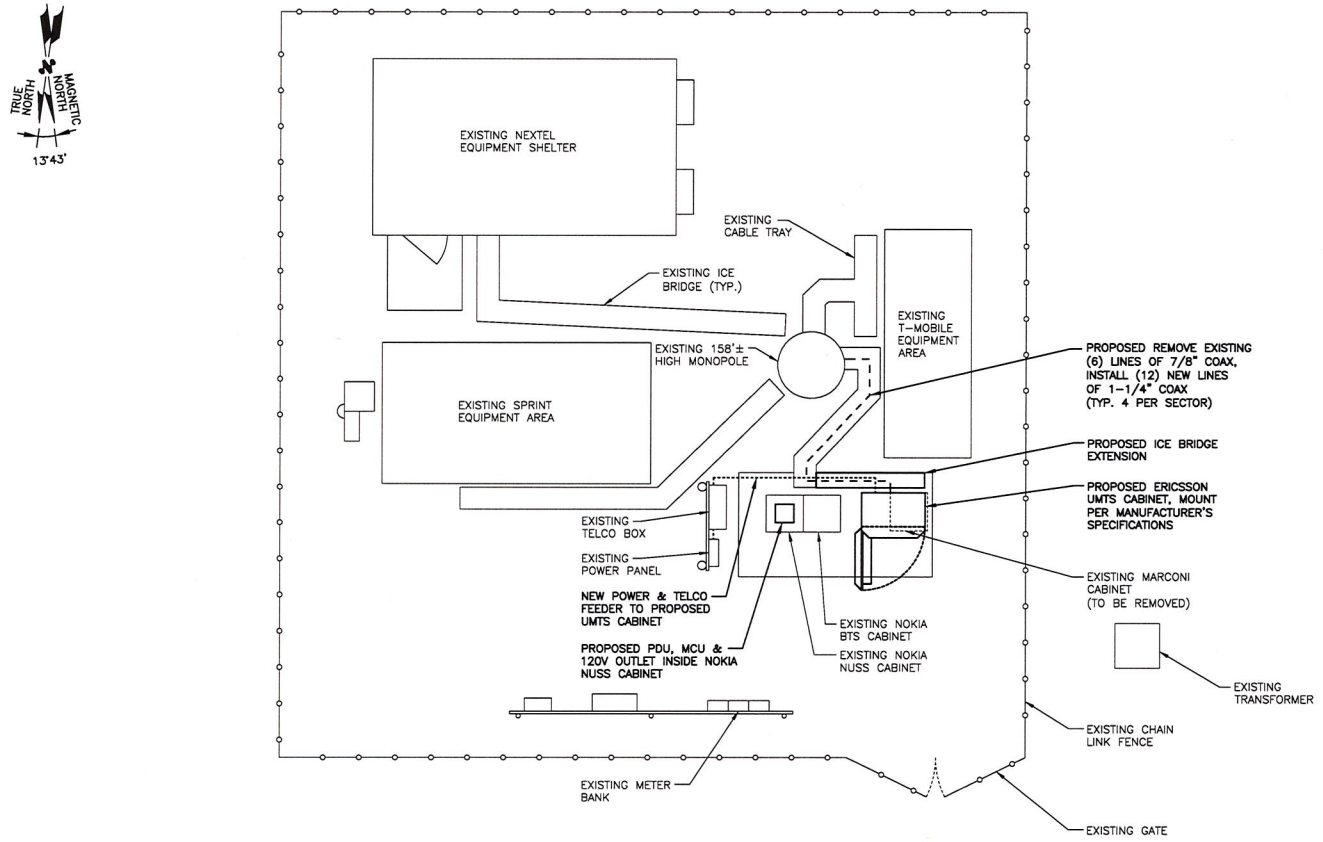
Proposed

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 *							10.09
Cingular GSM	118	880 - 894	4	296	0.0306	0.5867	5.21
Cingular GSM	118	1900 Band	2	427	0.0221	1.0000	2.21
Cingular UMTS	118	880 - 894	1	500	0.0129	0.5867	2.20
Total							19.7%

* Per CSC records.

Structural information:

The attached structural analysis demonstrates that the tower and foundation have adequate structural capacity to accommodate the proposed modifications. (Semaan Engineering, dated 9/2/08)



COMPOUND PLAN

SCALE: 1/4"=1'-0"

0 2'-0" 4'-0" 8'-0" 12'-0"

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SAI communications
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053

SITE NUMBER: 5446
SITE NAME: EASTON CENTRAL
(SPRINT SITE CT0912)
206 EVERETT ROAD
EASTON, CT 06612
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	07/24/08	CONSTRUCTION FINAL	PG	DC	DPH
1	04/29/08	CONSTRUCTION FINAL	RH	DC	DPH
0	04/22/08	ISSUED FOR CONSTRUCTION	RH	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: RH

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

COMPOUND PLAN

JOB NUMBER	DRAWING NUMBER	REV
5446.01	A-1	2

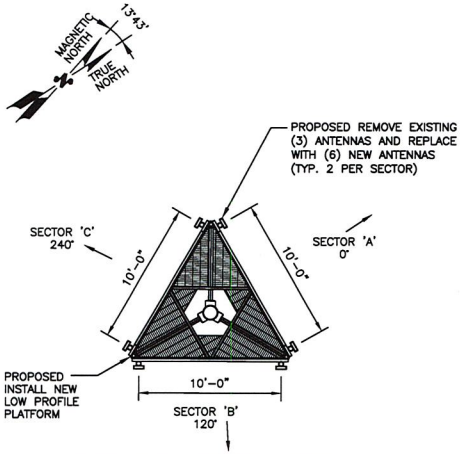
RF TABLE									
SECTOR	SECTOR NAME	ANTENNA MAKE & MODEL	ANTENNA COUNT	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	TMA COUNT	DIPLEXER COUNT	# OF COAX CABLES
1	ALPHA	POWERWAVE 7770	2 PROPOSED 0 EXISTING	0°	118'±	0*	2 PROPOSED 0 EXISTING	2 PROPOSED 0 EXISTING	4 PROPOSED 0 EXISTING
2	BETA	POWERWAVE 7770	2 PROPOSED 0 EXISTING	120°	118'±	0*	2 PROPOSED 0 EXISTING	2 PROPOSED 0 EXISTING	4 PROPOSED 0 EXISTING
3	GAMMA	POWERWAVE 7770	2 PROPOSED 0 EXISTING	240°	118'±	0*	2 PROPOSED 0 EXISTING	2 PROPOSED 0 EXISTING	4 PROPOSED 0 EXISTING

NOTE:

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

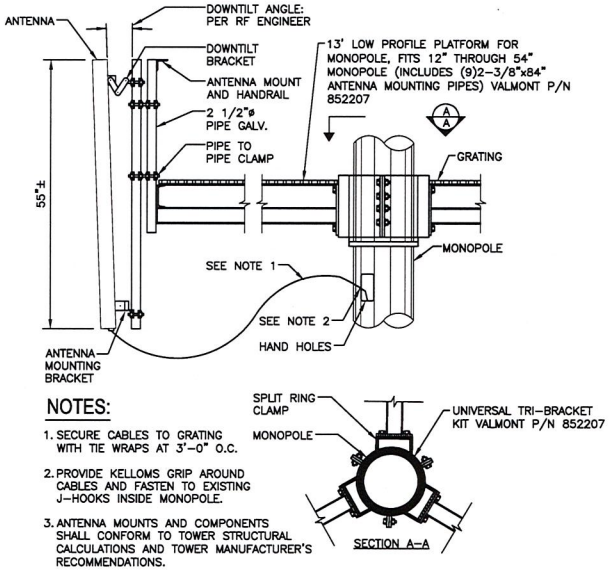
NOTE:*

REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



PROPOSED ANTENNA DETAIL

SCALE: N.T.S.

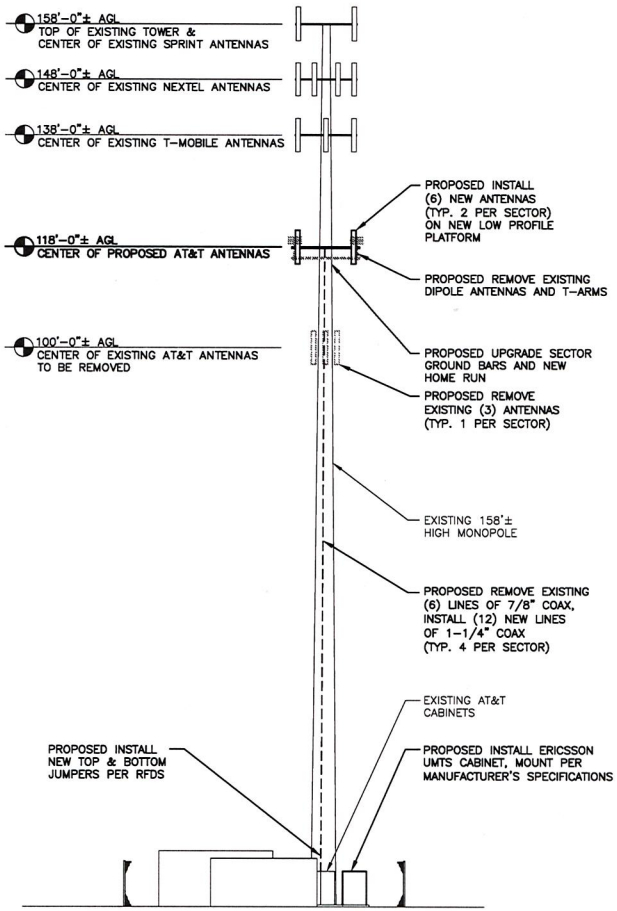


NOTES:

1. SECURE CABLES TO GRATING WITH TIE WRAPS AT 3'-0" O.C.
2. PROVIDE KELLOMS GRIP AROUND CABLES AND FASTEN TO EXISTING J-HOOKS INSIDE MONOPOLE.
3. ANTENNA MOUNTS AND COMPONENTS SHALL CONFORM TO TOWER STRUCTURAL CALCULATIONS AND TOWER MANUFACTURER'S RECOMMENDATIONS.

ANTENNA MOUNT DETAIL

SCALE: N.T.S.



NORTH ELEVATION

SCALE: 3/32"=1'-0"

0' 5'-4" 10'-8" 21'-4" 32'-0"

STATE OF CONNECTICUT DANIEL P. HAMM No.24178 LICENSED PROFESSIONAL ENGINEER

Daniel P. Hamm

Hudson Design Group LLC
1600 OSGOOD STREET
BUILDING 20 NORTH, SUITE 2-101
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 336-5586

SAI communications
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053

SITE NUMBER: 5446
SITE NAME: EASTON CENTRAL (SPRINT SITE CT0912)
206 EVERETT ROAD
EASTON, CT 06612
FAIRFIELD COUNTY

at&t
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
2	07/24/08	CONSTRUCTION FINAL	PG	DC	DPH
1	04/29/08	CONSTRUCTION FINAL	RH	DC	DPH
0	04/22/08	ISSUED FOR CONSTRUCTION	RH	DC	DPH

SCALE: AS SHOWN | DESIGNED BY: DC | DRAWN BY: RH

AT&T

ANTENNA LAYOUT AND ELEVATION

JOB NUMBER	DRAWING NUMBER	REV
5446.01	A-2	2

The new at&t Your world. Delivered. cingular raising the bar

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

September 9, 2008

Honorable Thomas A. Herrmann
1st Selectman, Town of Easton
Town Hall 225 Center Rd.
Easton, Connecticut 06612

Re: Telecommunications Facility – 206 Everett Road, Easton

Dear Mr. Herrmann:

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 ("Cingular") 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 Cingular'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 Cingular'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

1079 N. 205th Street
Elkhorn, NE 68022
Ph: 402-289-1888
Fax: 402-289-1861

SEMAAN ENGINEERING SOLUTIONS

158 ft PennSummit Monopole
Structural Analysis

Prepared for:
Sprint Sites USA
6120 Power Ferry Rd., 2nd Floor
MAILSTOP: GAATLV0204-2078
Atlanta, GA 30339-2923

Site: CT0912
Cingular
Easton, CT

September 2, 2008

Ms. Tawana Beverly
Sprint Sites USA
6120 Power Ferry Rd., 2nd Floor
MAILSTOP: GAATLV0204-2078
Atlanta, GA 30339-2923

Re: Site Number CT0912 – Easton, CT.

Dear Ms. Beverly:

We have completed the structural analysis for the existing monopole, located at the above referenced site. The purpose of this analysis is to determine that the existing monopole design is in conformance with the TIA/EIA-222 Rev F standard and local building codes for the proposed antennae loads installation. Refer to the Review and Recommendations section at the end of this report for the analysis results.

Description of Structure:

The structure is a 158 ft PennSummit Monopole.

Refer to PJF analysis, Job No29202-0378 dated December 19, 2002 for a detailed description of the structure.

Method of analysis:

The tower was analyzed using Semaan Engineering Solutions' software suite for communication structures. The structural analysis is performed using the SAPS finite element engine. The method is 3D, non-linear, which accounts for the second order geometric effects due to the displacements. It also treats guys as exact cable elements and therefore is ideal for guyed towers. The analysis was performed in conformance with TIA/EIA-222 Rev F and local building codes for a basic wind speed of 85 mph and 1/2" radial ice with reduced wind speed (fastest mile). This is in conformance with the IBC 2006: Section 1609.1.1, Exception (4) and Section 3108.4. Wind is applied to the structure, accessories and antennas.

Structure loading:

The following loads were used in the tower analysis:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
158.0	12	DB980	Low Profile Platform	(12) 1 5/8	Sprint
148.0	12	DB844H90	Low Profile Platform	(15) 1 5/8	Sprint-Nextel
138.0	12	RR90-17-02DP	Low Profile Platform	(12) 1 1/4	T-Mobile
75.0	1	GPS antenna	Flush Mounted	(1) 1/2	Sprint

Proposed Loads:

Elev (ft)	Qty	Antennas	Mounts	Coax	Carrier
118.0	6	21901 diplexer	Low Profile Platform		Cingular
	6	21401 TMA			
	6	Powerwave 7770		(12) 1 1/4	

All new access holes shall be reinforced with welded rims that are compatible with the pole and to be sized and supplied by pole manufacturer.
All transmission lines are assumed running inside of pole shaft.

Results of Analysis:
Refer to the attached Computer Summary sheets for detailed analysis results.

Structure:

The existing monopole is structurally capable of supporting the existing and proposed antennas. The maximum structure usage is: 72.7%.

Foundation:

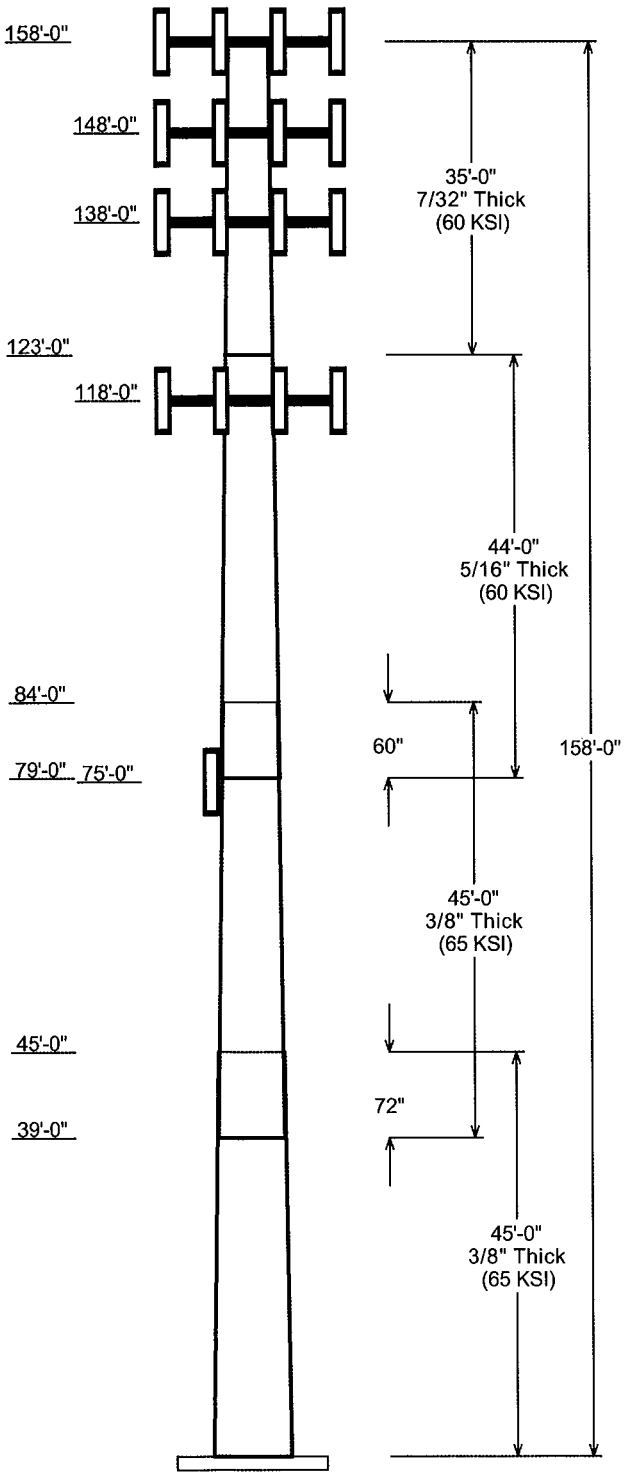
Pole Reactions	Original Design Reactions	Current Analysis Reactions
Moment (ft-kips)	N/A	2,692.47
Shear (kips)	N/A	24.37

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, the foundation will not require modification.

Review and Recommendations:

Based on the analysis results, the existing structure meets the requirements per the TIA/EIA-222 Rev F standards for a basic wind speed of 85 mph and 1/2" radial ice with reduced wind speed.

SEMAAN ENGINEERING SOLUTIONS
1079 N.204th Avenue
Elkhorn, NE 68022
Phone: 402-289-1888
Fax: 402-289-1861



Job Information

Pole :	CT0912
Code:	TIA/EIA-222 Rev F
Description :	
Client :	Sprint Sites USA - GA
Location :	Easton, CT
Shape :	18 Sides
Base Elev (ft):	0.00
Height :	158.00 (ft)
Taper:	0.203196(in/ft)

Sections Properties

Shaft Section	Length (ft)	Diameter (in) Accross Flats Top	Bottom	Thick (in)	Joint Type	Overlap Length (in)	Taper (in/ft)	Steel Grade (ksi)
1	45.000	45.58	54.73	0.375		0.000	0.203196	65
2	45.000	38.41	47.55	0.375	Slip Joint	72.000	0.203196	65
3	44.000	31.11	40.05	0.313	Slip Joint	60.000	0.203196	60
4	35.000	24.00	31.11	0.219	Butt Joint	0.000	0.203196	60

Discrete Appurtenance

Attach Elev (ft)	Force Elev (ft)	Qty	Description
158.000	158.000	1	Low Profile Platform
158.000	158.000	12	DB980
148.000	148.000	1	Low Profile Platform
148.000	148.000	12	DB844H90
138.000	138.000	1	Low Profile Platform
138.000	138.000	12	RR90-17-02DP
118.000	118.000	6	21901 diplexer
118.000	118.000	6	21401 TMA
118.000	118.000	1	Low Profile Platform
118.000	118.000	6	Powerwave 7770
75.000	75.000	1	GPS antenna

Linear Appurtenance

Elev (ft) From	To	Description	Exposed To Wind
0.000	75.000	1/2" Coax	No
0.000	118.0	1 1/4" Coax	No
0.000	138.0	1 1/4" Coax	No
0.000	148.0	1 5/8" Coax	No
0.000	158.0	1 5/8" Coax	No

Load Cases

No Ice	85.00 mph Wind with No Ice
Ice	73.61 mph Wind with Ice

Reactions

Load Case	Moment (Kip-ft)	Shear (Kips)	Axial (Kips)
No Ice	2692.47	24.37	37.71
Ice	2224.33	19.64	44.69