

Daniel F. Caruso  
Chairman

# 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/csc](http://ct.gov/csc)

January 22, 2008

Thomas J. Regan, Esq.  
Brown Rudnick Berlack Israels LLP  
CityPlace I  
185 Asylum Street  
Hartford, CT 06103

RE: **EM-SPRINT-NEXTEL-135-071228** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Attorney Regan:

At a public meeting held on January 10, 2008, the Connecticut Siting Council (Council) acknowledged 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 28, 2007, 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,

Daniel F. Caruso  
Chairman

DFC/MP/cm

c: The Honorable Dannel P. Malloy, Mayor, City of Stamford  
Robert Stein, Planning and Zoning Director, City of Stamford  
American Tower

**RECEIVED**  
DEC 28 2007

CONNECTICUT SITING COUNCIL

In re:

**CONNECTICUT  
SITING COUNCIL**

**EM-SPRINT-NEXTEL-135-071228**

Sprint Nextel Corporation's Notice to Make an Exempt Modification to an Existing Facility at 168 Catoona Lane, Stamford, Connecticut : **EX**  
: December 28, 2007

**NOTICE OF EXEMPT MODIFICATION**

Pursuant to Conn. Agencies Regs. §§ 16-50j-73 and 16-50j-72(b), Sprint Nextel Corporation ("Sprint") hereby gives notice to the Connecticut Siting Council ("Council") and the City of Stamford of Sprint's intent to make an exempt modification to an existing lattice tower (the "Tower") located at 168 Catoona Lane, Stamford, Connecticut. Specifically, Sprint plans to replace six existing CDMA antennas with three WiMAX antennas and three new CDMA antennas and install WiMAX-related electronic equipment at the base of the Tower. Under the Council's regulations (Conn. Agencies Regs. § 16-50j-72(b)), Sprint's plans do not constitute a modification subject to the Council's review because Sprint will not change the height of the Tower, will not extend the boundaries of the compound, will not increase the noise levels at the site, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

Sprint is currently undertaking an upgrade to its wireless communications system in Connecticut. As part of the upgrade, Sprint is implementing WiMAX technology to enable enhanced wireless data communications. In order to accomplish the upgrade at this site, Sprint plans to replace six existing CDMA antennas with three WiMAX antennas and three new CDMA antennas and install WiMAX-related electronic equipment at the base of the Tower.

The Tower is a 300-foot lattice tower located at 168 Catoona Lane, Stamford, Connecticut (Latitude 41° 03' 09" N, Longitude 73° 33' 46" W). The Tower is owned by American Tower

Corporation. Currently, Sprint has six CDMA network antennas located on the Tower with an antenna centerline at 150 feet. The CDMA equipment is located at the base of the Tower within the existing compound on a concrete pad. Other carriers also have antennas on the Tower. A site plan with the Tower specifications is attached.

Sprint plans to replace the six existing CDMA antennas with three KMW-AM-X-WM-17-65-00T (WiMAX) antennas and three Andrew UMWD-09014B-XDH (CDMA) antennas, keeping the same antenna centerline (150 feet) as the existing CDMA antennas. This installation will require twelve 1-5/8" diameter coaxial cables to be installed within the Tower. To confirm the Tower can support these changes, Sprint commissioned American Tower Corporation to perform a structural analysis of the Tower (attached). According to the structural analysis, dated December 6, 2007, "[t]he subject tower and foundation *are adequate* to support the above stated loads in conformance with specified requirements." (emphasis in original).

Sprint will also install two WiMAX equipment cabinets – a radio cabinet to be installed on the existing concrete pad and a power cabinet to be installed on a 3'- 4" by 8' extension of the concrete pad. Sprint plans to mount a global positioning system (GPS) antenna to the power cabinet. In addition, an existing power cabinet (PPC) will be replaced and a new cabinet located on the existing concrete pad. Neither the cabinet installation nor the concrete pad extension will require modification to the size or enclosure of the existing compound. Further, excluding brief, minor, construction-related noise during the addition of the antennas and the installation of the equipment cabinets, Sprint's changes to the Tower will not increase noise levels at the site.

The addition of the WiMAX antennas to Sprint's existing antenna array will not adversely impact the health and safety of the surrounding community or persons working on the Tower. The total radio frequency exposure measured around the Tower will be well below the National

Council on Radiation Protection and Measurements' ("NCRP") standard adopted by the Federal Communications Commission ("FCC"). The worst-case power density analysis measured at the base of the Tower indicates that the WiMAX and CDMA antennas will emit 9.9146% of the NCRP's standard for maximum permissible exposure. A cumulative power density analysis indicates that, together, all of the antennas on the Tower will emit only 10.5620% of the NCRP's standard for maximum permissible exposure.<sup>1</sup> Therefore, the power density levels will be well below the FCC mandated radio frequency exposure limits in all locations around the Tower, even with extremely conservative assumptions. The power density analysis is attached.

In conclusion, Sprint's proposed plan to replace six existing CDMA antennas with three WiMAX antennas and three new CDMA antennas and install WiMAX-related electronic equipment at the base of the Tower does not constitute a modification subject to the Council's jurisdiction because Sprint will not increase the height of the Tower, will not extend the boundaries of the site, will not increase the noise levels at the site, and the total radio frequency electromagnetic radiation power density will stay within all applicable standards. *See Conn. Agencies Regs. § 16-50j-72.*

Sprint Nextel Corporation

By:  \_\_\_\_\_

Thomas J. Regan, Esq.  
Brown Rudnick Berlack Israels LLP  
185 Asylum Street, CityPlace I  
Hartford, CT 06103-3402  
Email - tregan@brownrudnick.com  
Phone - 860.509.6522  
Fax - 860.509.6501

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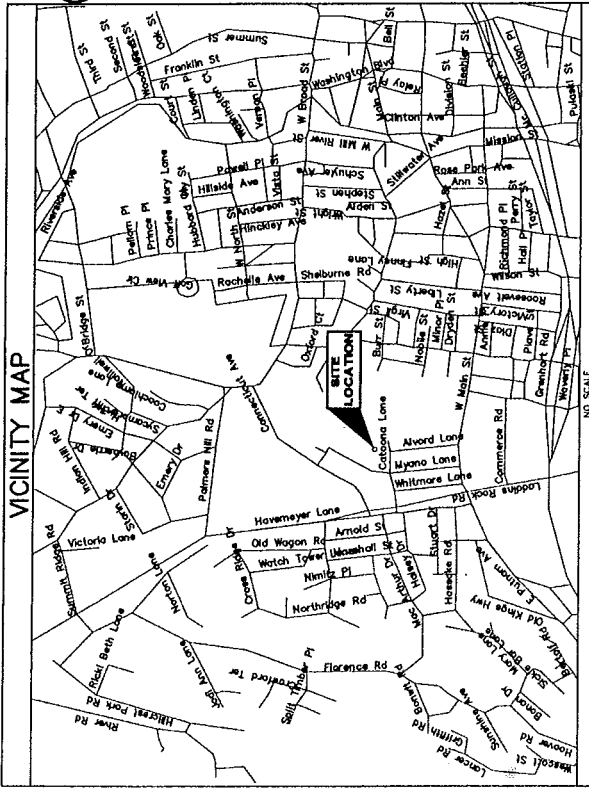
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<sup>1</sup> The power density analysis is based on data available in the Siting Counsel's database. The structural evaluation incorporates additional antenna that are reserved but do not currently affect the power density of the Tower.



**STAMFORD AT&T  
CT01YC348/CT03XC337  
168 CATOONA LANE  
STAMFORD, CT 6902**

**NOT FOR CONSTRUCTION**



**DRIVING DIRECTIONS**

FROM 100 CORPORATE PLACE, ROCKY HILL, CT.:

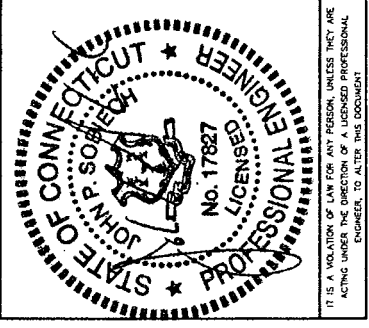
HEAD SOUTH ON CORPORATE PL TOWARD WEST ST. TURN LEFT AT WEST ST. SLIGHT RIGHT TO MERGE ONTO I-91 S TOWARD NEW HAVEN. TAKE EXIT TO MERGE ONTO CT-40 N TOWARD MT CARMEL/HAMDEN. TAKE THE EXIT TOWARD DEVINE ST. TURN RIGHT AT DEVINE ST. TURN RIGHT AT STATE ST/US-5.

**SHEET INDEX**

SHEET NO:	SHEET TITLE	REVISION HISTORY	
		NO:	DATE
T01	TITLE SHEET	0	12 / 26 / 07
SC01	COMPOUND PLAN	0	12 / 26 / 07
SC02	TOWER ELEVATION	0	12 / 26 / 07

**PROJECT INDEX**

SITE NUMBER:	CT01YC348 / CT03XC337
SITE NAME:	STAMFORD AT&T
SITE ADDRESS:	168 CATOONA LANE STAMFORD, CT 06902
APPLICANT:	SPRINT NEXTEL CORP. 1 INTERNATIONAL BLVD., SUITE 800 MAHWAH, NJ 07495
APPLICANT REPRESENTATIVE:	TRANSCEND WIRELESS, LLC 479 ROUTE 17 NORTH, 2ND FLOOR MAHWAH, NJ 07430
CONTACT:	JASON DEIBERT (347) 284-8617
PROPERTY OWNER:	AMERICAN TOWER CORPORATION
JURISDICTION:	CONNECTICUT SITING COUNCIL
TAX MAP/LOT:	119/283-A
ZONING DISTRICT:	RM-1
CORDNATES:	41° 03' 09" N (41.052500 N)
LATITUDE:	73° 33' 46" W (73.562778 W)
LONGITUDE:	



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.
SITE ID: CT01YC348-CT03XC337
SITE NAME: STAMFORD AT&T
SITE ADDRESS: 168 CATOONA LANE STAMFORD, CT 06902 FAIRFIELD COUNTY
SHEET TITLE TITLE SHEET
SHEET NUMBER T01

NO.	DATE	ISSUED FOR	BY	CHK.	APP'D.
0	12/26/07	FOR SITING COUNCIL	JJM	RJT	JPS

**CHA**  
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CLOUGH HARBOUR & ASSOCIATES LLP  
11 Wireless Drive, PO Box 5269 • Albany, NY 12205-0269  
Phone: (518) 435-4555 • www.chaengineers.com  
CHA PROJECT NO.:  
17181 - 3006 - 1601

TRANSCEND WIRELESS, LLC  
479 ROUTE 17 NORTH,  
2ND FLOOR  
MAHWAH, NJ 07430

APPLICANT:  
**SPRINT NEXTEL  
CORP.**  
1 INTERNATIONAL BLVD, SUITE 800  
MAHWAH, NJ 07495

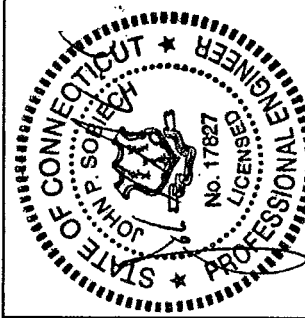
APPLICANT:

**SPRINT NEXTEL  
CORP.**  
1 INTERNATIONAL BLVD, SUITE 800  
MAHWAH, NJ 07495

**TRANSCEND WIRELESS, LLC**  
479 ROUTE 17 NORTH,  
2ND FLOOR  
MAHWAH, NJ 07430

**CH&A**  
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11 Wynnton Circle, PO Box 5069 - Albany, NY 12201-0269  
Main (518) 433-6500 • www.chandaa.com  
CH&A PROJECT NO:  
**17181 - 3008 - 1601**

NO.	SUBMITTAL
0	ISSUED FOR SITING COUNCIL
BT:	AM
CHK:	RJT
APP:	D:

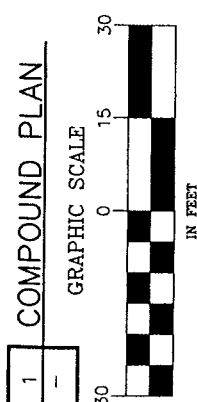
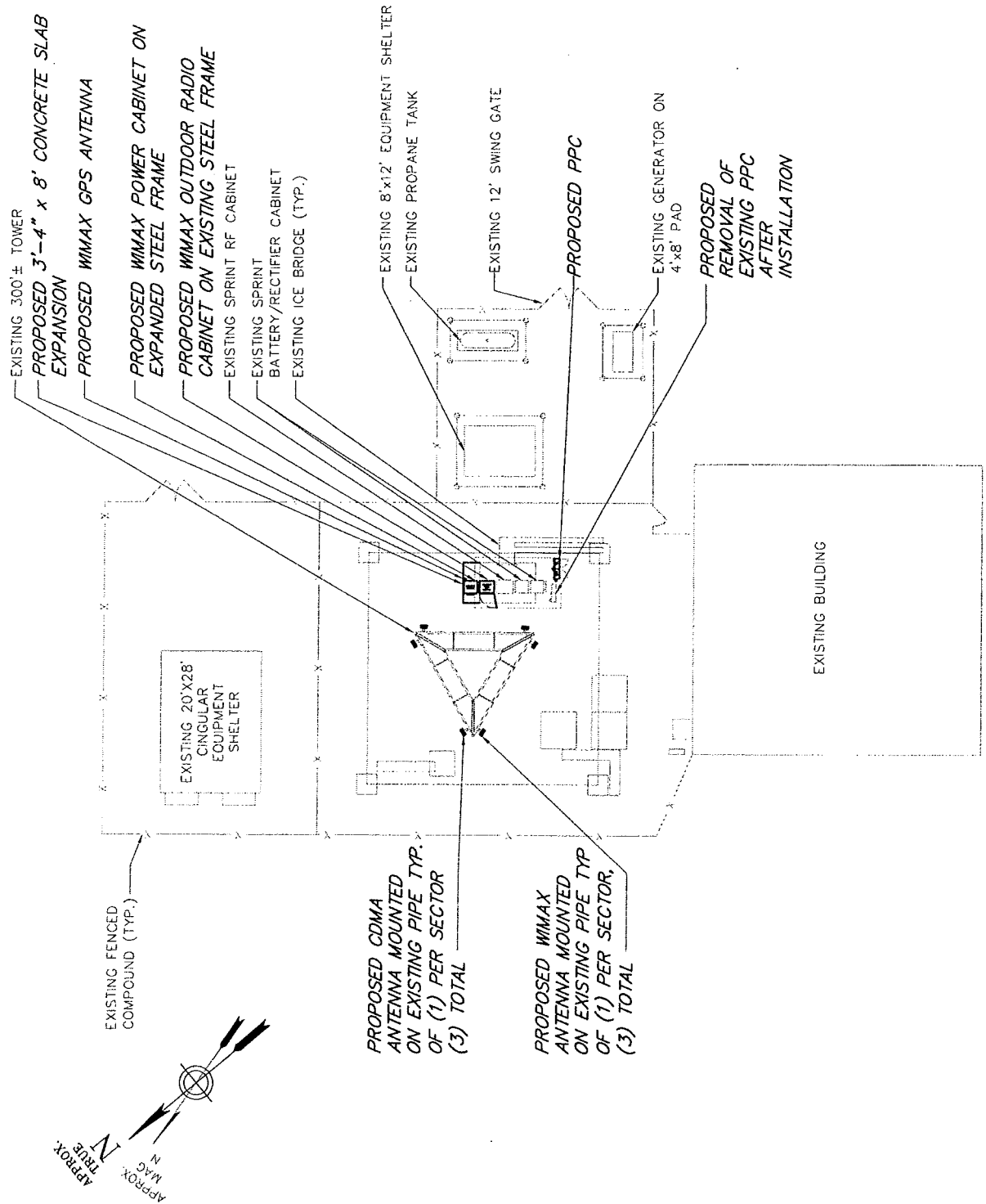


IT IS A VIOLATION OF LAW TO SIGN OR SEAL ANY DOCUMENT UNLESS THE ENGINEER IS LICENSED UNDER THE PROFESSIONAL ENGINEER ACT BY THE BOARD OF REGISTRATION OF PROFESSIONAL ENGINEERS. TO ALTER THIS DOCUMENT.

**SITE ID:** CT01YC348 - CT03XC337  
**SITE NAME:** STAMFORD AT&T  
**SITE ADDRESS:** 168 CATOONA LANE  
STAMFORD, CT 06902  
FAIRFIELD COUNTY

**SHEET TITLE**  
COMPOUND PLAN


**SHEET NUMBER**  
SC01



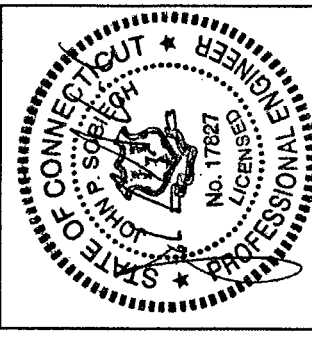
**NOT FOR CONSTRUCTION**

APPLICANT:  
**SPRINT NEXTEL CORP.**  
 1 INTERNATIONAL BLVD, SUITE 800  
 MAHWAH, NJ 07495

**TRANSCEND WIRELESS, LLC**  
 479 ROUTE 17 NORTH,  
 2ND FLOOR  
 MAHWAH, NJ 07430

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**CLOUGH HARBOUR & ASSOCIATES LLP**  
 811 Wyandale Circle, PO Box 5266, Albany, NY 12205-0266  
 Main: 518.745.4000 • www.cloughharbour.com  
 CHA, PROJECT NO.  
**17181 - 3008 - 1601**

NO.	DATE	ISSUED FOR	BY:	CHK:	APPD:
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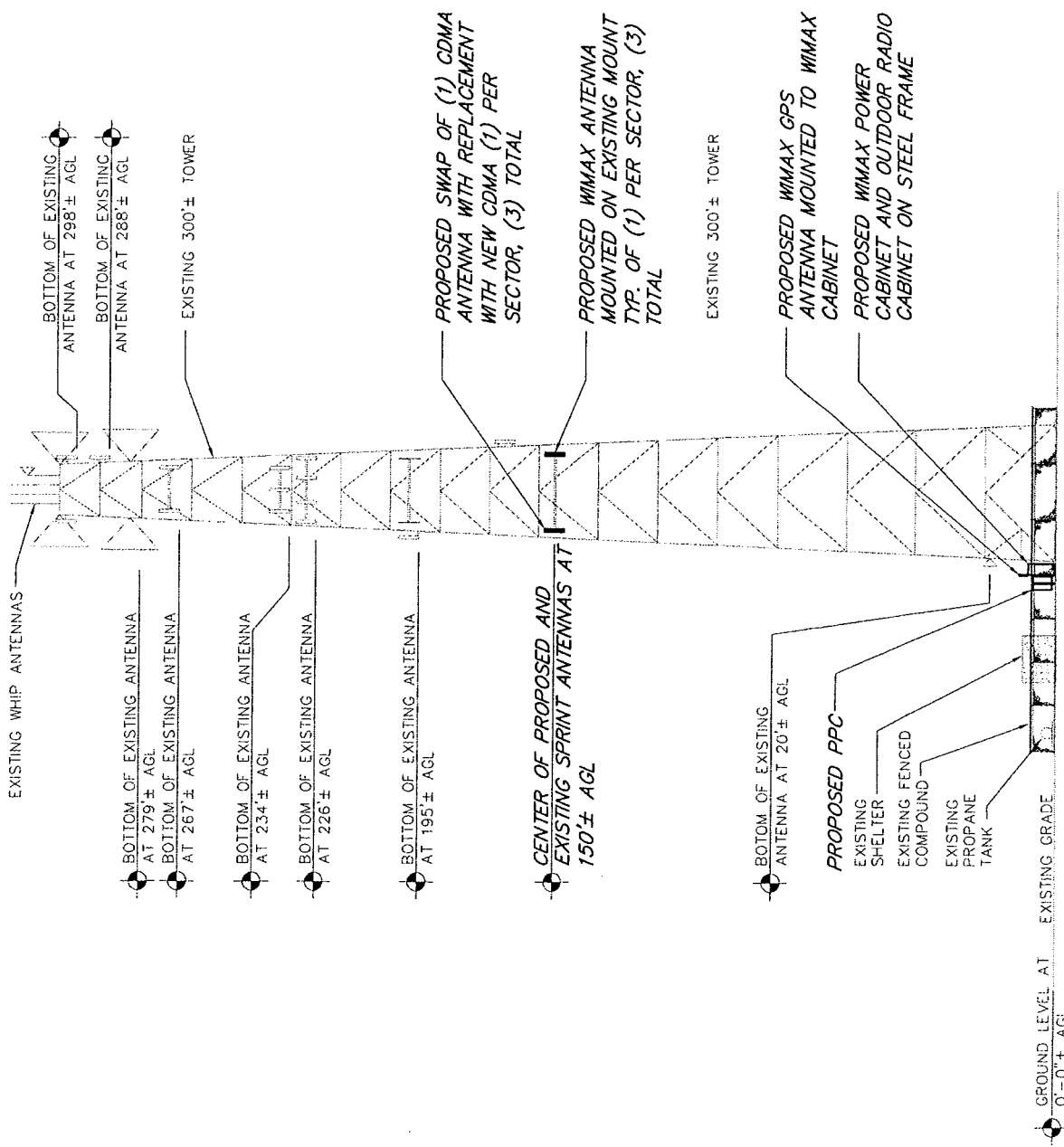


IT IS THE DUTY OF THE ENGINEER TO SEE THAT THE WORK IS ACCORDING TO THE DESIGN OF THE REGISTERED PROFESSIONAL ENGINEER. TO ALTER THIS DOCUMENT

SITE ID:  
**CT01YC348-CT03XC337**  
 SITE NAME:  
**STAMFORD AT&T**  
 SITE ADDRESS:  
 168 CATOONA LANE  
 STAMFORD, CT 06902  
 FAIRFIELD COUNTY

SHEET TITLE  
**TOWER ELEVATION**

SHEET NUMBER  
**SC02**



**NOT FOR CONSTRUCTION**



**AMERICAN TOWER™**  
CORPORATION

<b>Level 1 Structural Evaluation <sup>1</sup></b>		
ATC Site Number & Name	<b>88018, Stamford (Katoona)</b>	Engineering ID: <b>41118114</b>
Carrier Site Number & Name	<b>CT01YC348 CT03X337, Stamford Katoona</b>	
Site Address	Katoona Lane Stamford, Connecticut 06902 Fairfield County	
Tower Description	<b>300 ft CSEI Self Support Tower</b>	
Standards & Codes <sup>2</sup>	ANSI/TIA/EIA-222-F (1996) <b>85 mph w/ 0" radial ice</b> <b>74 mph w/ 1/2" radial ice</b>	2003 International Building Code w/ Connecticut Supplements <b>105 mph w/ 0" radial ice</b>

<b>Table 1: Existing and Proposed Antenna Configuration</b>				
<b>HEIGHT (ft)</b>	<b>ANTENNA</b>	<b>CARRIER</b>	<b>COAX</b>	<b>STATUS</b>
303	(1) Scala OGB9-900N (1) Preamp PGLN1PR-MFF on Platform w/ Handrails	Skytel	(1) 7/8"	Existing
303	(1) Dielectric TLP16A on Platform w/ Handrails	Qualcomm	-	Existing
300	(1) Omni 101 (1) Radiowaves SP4D on Tower Leg	Marcus Communications LLC	(1) 1 1/4" (1) 7/8"	Existing
300	(1) Celwave PD200 on Tower Leg	Lojack Corp.	(1) 1 5/8"	Existing
294	(9) EMS APL800803-420T on Sector Frame Mounts	Cingular Wireless	(14) 1 5/8"	Existing
269	(1) Rodhe & Shwarz ADD090 on Tower Leg	US Coast Guard	(2) 7/8"	Existing
265	(12) EMS FR90-16-04D on Sector Frame Mounts	T-Mobile	(24) 1 5/8"	Existing
260	(1) Tilek TA-2350-DAB on Tower Leg	XM Satellite Radio Inc.	(1) EW120	Existing
250	(3) Dapa DAPA58512 On Sector Frame Mounts	Cingular Wireless	(3) 1 5/8"	Existing
240	(1) Sinclair SC281L-D1 (1) Sinclair SC381-L on Tower Leg	US Coast Guard	(2) 7/8"	Existing
237	(6) EMS APL800803-420T on Sector Frame Mounts	Cingular Wireless	(9) 1 5/8"	Existing
224	(12) Decibel DB844H90(E)XY on Sector Frame Mounts	Sprint-Nextel	(15) 1 5/8"	Existing
200	(2) Omnis on Side Arm Mounts	Marcus Communications LLC	(2) 1 1/4"	Existing
200	(1) Sinclair SC281L-D1 on Side Arm Mount	US Coast Guard	(1) 7/8"	Existing





**AMERICAN TOWER™**  
CORPORATION

88018-DRS

11/27/2007

Page 2 of 2

190	(1) Panel on Tower Leg	Town of Stamford	-	Existing
160	(6) Kathrein 800 10504 on T-Arm Mounts	Metro PCS	(12) 1 5/8"	Existing
150	(3) Andrew UMWD-09014B-XDH (3) KMW AM-X-WM-17-65-00T (3) TMA KMDAPS2050000 on Sector Frame Mounts	Sprint-Nextel	(12) 1 5/8" <sup>2a</sup>	Proposed
100	(1) Omni on Stand-Off Mount	Marcus Communications LLC	(1) 1 1/4"	Existing
25	(1) Tilttek TA-2324-LHCP on Tower Leg	XM Satellite Radio Inc.	(1) 7/8"	Existing
10	(1) Trimble Palisade on Tower Leg	Lojack Corp.	(1) 3/8"	Existing

<sup>a</sup> Double stack coax in same location as existing.

The subject tower and foundation *are adequate* to support the above stated loads in conformance with specified requirements.<sup>3</sup>



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut.

<sup>1</sup> The existing and proposed loads of *Table 1* are compared to the tower's current design capacity or previous analysis.

<sup>2</sup> The design wind criteria are compared to the current code requirements.

<sup>3</sup> The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in *Table 1*.

CT01YC348 (168 Catoona Lane, Stamford, CT) - Siting Council Power Density Calculations									
Sprint Nextel Directional Antennas ESMR - 2657 MHz 150'									
Transmitters:	Frequency in MHz	CT Standard mW/ cm <sup>2</sup>	Number of Channels	ERP (W) per channel	Centerline of Tx antennas AGL (ft.)**	Power density calculated at base of tower	Note: Power densities are in mW/ cm <sup>2</sup>		
WiMAX	2657	1.0000	3	562	150	0.0269310	2.6931%		
CDMA	1962.5	1.0000	11	411	150	0.0722154	7.2215%		
From previous filings: per CSC power density data base									
Cingular							0.0028%		
XM Satellite Radio							0.0041%		
T-Mobile							0.0061%		
Nextel							0.0085%		
Marcus							0.0050%		
Marcus							0.0041%		
Marcus							0.0041%		
SNET Paging							0.0000%		
Skytel							0.0109%		
Rescue 21						receive only	0.0072%		
Rescue 21							0.0014%		
Metro PCS							0.5932%		
<b>Total % of CT Standard</b>								<b>10.5620%</b>	



# 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/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

December 31, 2007

The Honorable Dannel P. Malloy  
Mayor  
City of Stamford  
Stamford Government Center  
888 Washington Boulevard  
P. O. Box 10152  
Stamford, CT 06904-2152

RE: **EM-SPRINT-NEXTEL-135-071228** – Sprint Nextel Corporation notice of intent to modify an existing telecommunications facility located at 168 Catoona Lane, Stamford, Connecticut.

Dear Mayor Malloy:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for January 10, 2008, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the Council by January 9, 2008.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps  
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Robert Stein, Planning and Zoning Director, City of Stamford