



# 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@po.state.ct.us](mailto:siting.council@po.state.ct.us)

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

March 30, 2001

Peter W. van Wilgen  
SNET Cellular LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: **TS-CING-002-010320** - SNET Cellular, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held March 28, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated March 20, 2001.

Thank you for your attention and cooperation.

Very truly yours,

  
Mortimer A. Gelston  
Chairman

MAG/RKE/laf

c: Honorable James T. DellaVolpe, Mayor, City of Ansonia  
Peter Crabtree, Zoning Enforcement Officer, City of Ansonia  
Maureen Woodstrom, SpectraSite Communications  
Ronald C. Clark, Nextel Communications, Inc.  
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC



500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7730  
Fax: (860) 513-7614

**Peter W. van Wilgen**  
*Director – Real Estate Operations*

March 20, 2001

Mr. Mortimer A. Gelston, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051



**Re: Request by SNET Cellular, LLC for an Order to Approve the Shared Use of a Wireless Telecommunications Tower Facility located at 401 Wakelee Avenue, Ansonia, Connecticut.**

Dear Chairman Gelston:

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, SNET Cellular, LLC ("SNET") hereby requests an order from the Connecticut Siting Council ("Council") approving the proposed shared use by SNET of an existing wireless telecommunications tower facility located at 401 Wakelee Avenue, Ansonia, Connecticut. The facility is owned and operated by SpectraSite Communications, Inc., with offices at 100 Regency Forest Drive, Suite 400, Cary, NC 27511. SpectraSite leases the land from the City of Ansonia.

The facility is located at 401 Wakelee Avenue on land belonging to the City of Ansonia. Its coordinates are N 41° 21' 22" and W 73° 05' 31" (NAD 83).

SNET is licensed by the Federal Communications Commission ("FCC") to provide cellular telephone service in the New Haven, CT Metropolitan Statistical Area, which includes the area to be served by SNET's proposed installation. SpectraSite and SNET have agreed to the proposed shared use of the existing 199 foot self-supporting lattice tower pursuant to mutually acceptable terms and conditions. SpectraSite has authorized SNET to apply for all necessary permits, approvals and authorizations, which may be required for the proposed shared use of this facility.

Enclosed with this request are a site location map, a proposed site plan, and the proposed tower profile. Engineering information concerning the structural carrying capacity of the self-supporting lattice tower is also provided.

Under leases with SpectraSite, Nextel Communications, Inc. ("Nextel") and Sprint Spectrum L.P. ("Sprint") are currently utilizing the tower for wireless telecommunications. Nextel has installed panel antennas at 196 feet above ground level (AGL) and an equipment shelter beside

beside the tower. Sprint has installed panel antennas on the tower at 188 feet AGL as well as an equipment building. Verizon Wireless is negotiating a lease with SpectraSite and is shown on the attached drawings for information only.

As shown on the attached drawings and as further described below, SNET proposes to mount up to twelve (12) Decibel Products DB846H80 panel antennas, approximately 72 inches in height, on a triangular antenna platform with the center of radiation at the 168 foot level of the tower. It also proposes to construct an 11' 6" x 20' foot equipment shelter adjacent to the existing tower on a 12' x 20' lease area.

The existing fenced compound is 36' wide by 42' long, with a slightly irregular shape due to positioning of the Nextel shelter in one corner of the compound. To accommodate proposed and future uses of the facility by SNET and Verizon, we propose to enlarge the existing compound by a 28' x 37' addition on the northeast side of the compound. Per SpectraSite's wishes, the SNET equipment building is positioned away from the tower, leaving room for an additional carrier with smaller space requirements.

SNET 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. A copy of this letter is being sent to the Mayor of the City of Ansonia.

### **Statutory Considerations**

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 existing tower is structurally sound and capable of supporting the proposed shared use of the SNET antennas at the 168 foot level. Please see the attached design drawing for this self-supporting lattice tower which demonstrates that the structure was designed to accommodate five commercial antenna platforms with up to twelve panel antennas apiece. Since SNET is only the third carrier to mount antennas on the lattice, the proposed shared use of this tower is technically feasible. Additionally, SpectraSite will conduct a structural analysis of the tower in the near future pursuant to its corporate policy, and SNET will provide the report to the Council when it is available.
- B. **Legal Feasibility.** Under C.G.S §16-50aa, the Council has been authorized to issue an order approving the proposed shared use of an existing tower facility such as the facility located on 401 Wakelee Avenue (C.G.S §16-50aa(c) (1)). This authority complements the Council's prior-existing authority under C.G.S §16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. C.G.S §16-

50x(a) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" in ruling on applications for the shared use of existing tower facilities. Under the authority vested in the Council by C.G.S §16-50aa, an order approving the shared use would permit the applicant 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. Other than enlargement of the fenced compound, 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 proposed antennas would not increase the height of the self-supporting lattice tower. SNET's equipment will be housed in an 11' 6" x 20' equipment shelter on a 12' x 20' lease area located adjacent to the existing tower.

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

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 "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the currently proposed antenna array is as follows:

Company	Centerline Height (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
Nextel *	196	851	9	100	0.0086	0.5673	1.5
Sprint *	188	1962.5	11	367	0.0429	1.0000	4.3
SNET	168	880	19	100	0.0242	0.5867	4.1
<b>Total</b>							<b>9.9 %</b>

\* Nextel and Sprint power densities taken from Sprint's application to the Council in TS-Sprint-002-000404.

† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 as described in FCC OET Bulletin No. 65.

As the table demonstrates, the "worst-case" exposure would be only 9.9 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Power density levels from SNET's use of the tower facility would thus be well below applicable ANSI/IEEE standards.

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

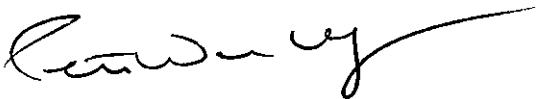
(approximately four weeks), the proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

- D. **Economic Feasibility.** SNET has entered into an agreement with SpectraSite to share use of the tower and to construct an equipment building. The proposed facility sharing is therefore economically feasible.
- E. **Public Safety Concerns.** As stated above, the existing self-supporting lattice tower is structurally capable of supporting SNET's proposed antennas, and radio frequency emissions fall well within State and Federal safety standards. SNET 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 Ansonia's residents. The proposed-shared use of this facility would also improve public safety for travelers along Route 8 in the City of Ansonia.

### **Conclusion**

For the reasons discussed above, the proposed shared use of the existing tower facility at 401 Wakelee Avenue in the City of Ansonia 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. SNET therefore respectfully requests that the Council issue an order approving the proposed shared use. Thank you for your attention to this matter.

Sincerely,

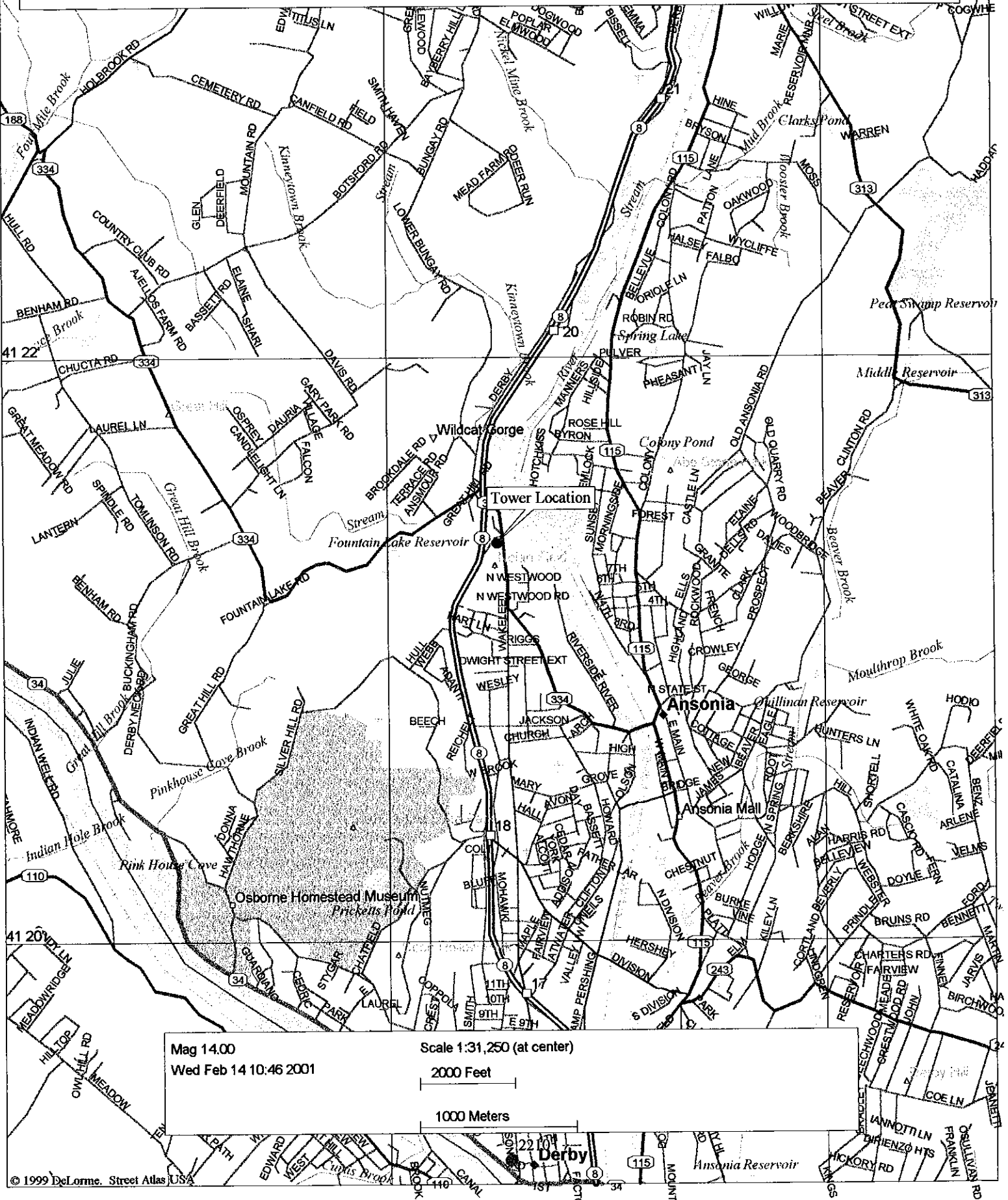


Peter W. van Wilgen  
Director – Real Estate Operations

Enclosures

cc: Honorable James T. DellaVolpe, Mayor of Ansonia

# Tower Location, Wakelee Ave., Ansonia

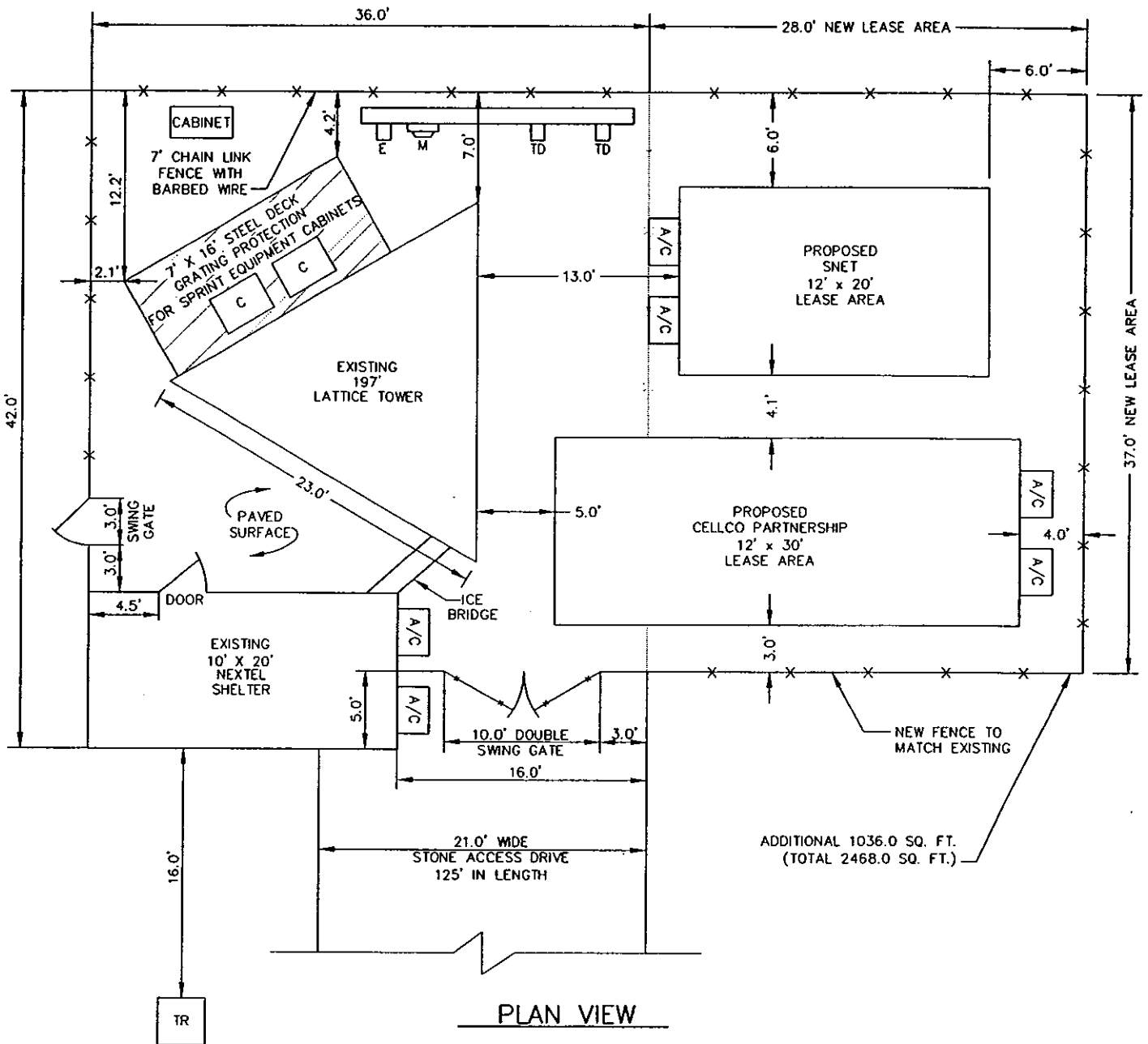


Mag 14.00  
Wed Feb 14 10:46 2001

Scale 1:31,250 (at center)

2000 Feet

1000 Meters



**PLAN VIEW**

**LEGEND:**

- E ELECTRIC SERVICE DISCONNECT
- M METER
- TD TELCO DEMARK
- TR TRANSFORMER
- C CABINET

**GRAPHIC SCALE**



( IN FEET )

1 Inch = 10 Feet

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc., shall be without liability to Kimley-Horn and Associates, Inc.

JOB No.	011815007
DATE:	12/11/00
REV.	0
DRAWN	QA/OC
EJY	

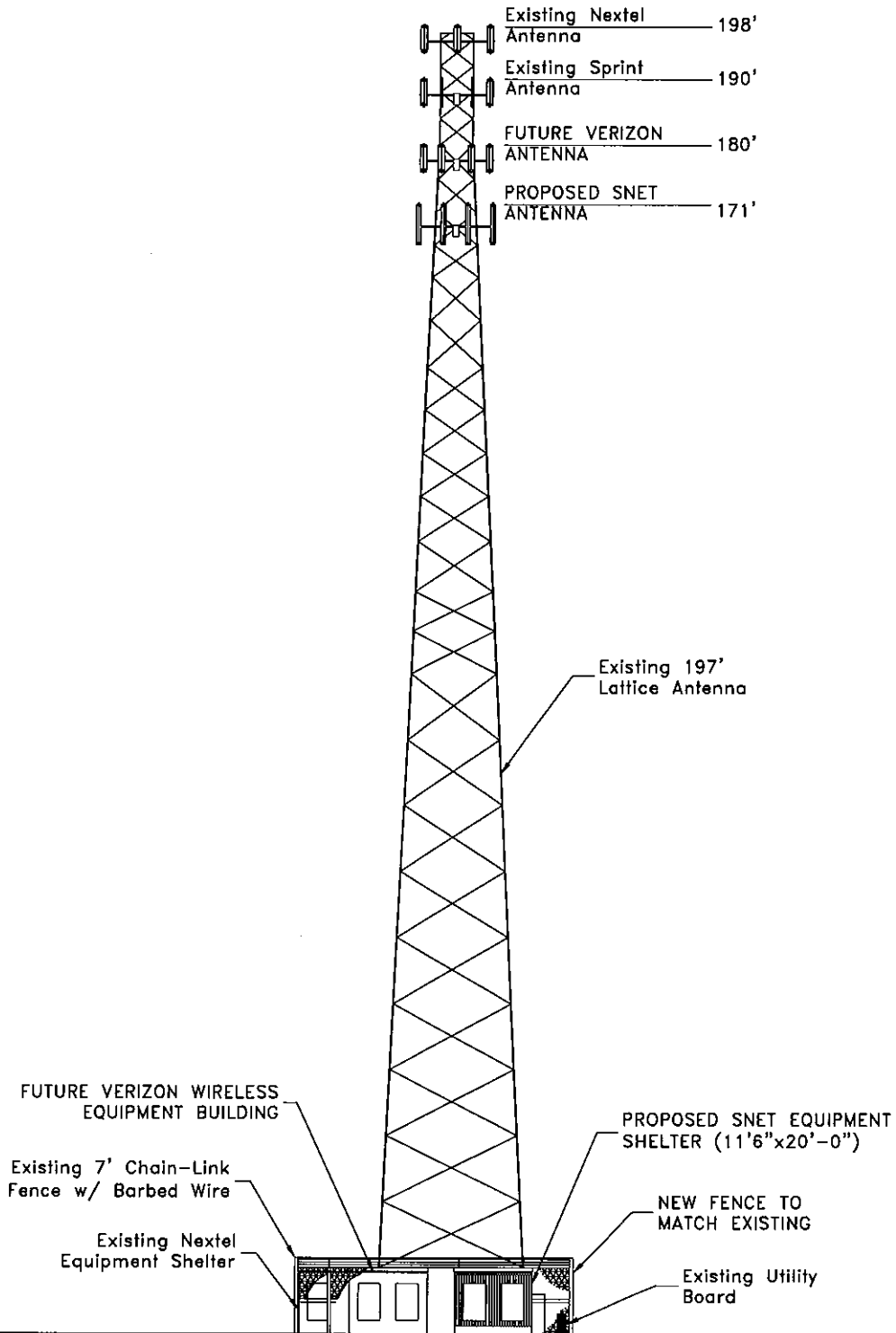
**SPECTRASITE COMMUNICATIONS**  
 100 REGENCY FOREST DRIVE, SUITE 400  
 CARY, NC 27511

**ANSONIA-WAKELEE CT-0006**



**SITE LAYOUT PLAN SHEET 1 OF 2**

4	CCD SNET - CHANGE POS. A/C	2/1/01	
3	CCD REVISE SNET - GND AND TOWER	2/1/01	
2	CHL REVISED VERIZON SHELTER TO 12' x 30'	2/7/01	
1	CHL OPENED LEASE TO 24, SWITCHED VERIZON AND SNET	2/7/01	
NO.	BY	REVISION	DATE

RAD. CENTER: 168± FT. (AGL)

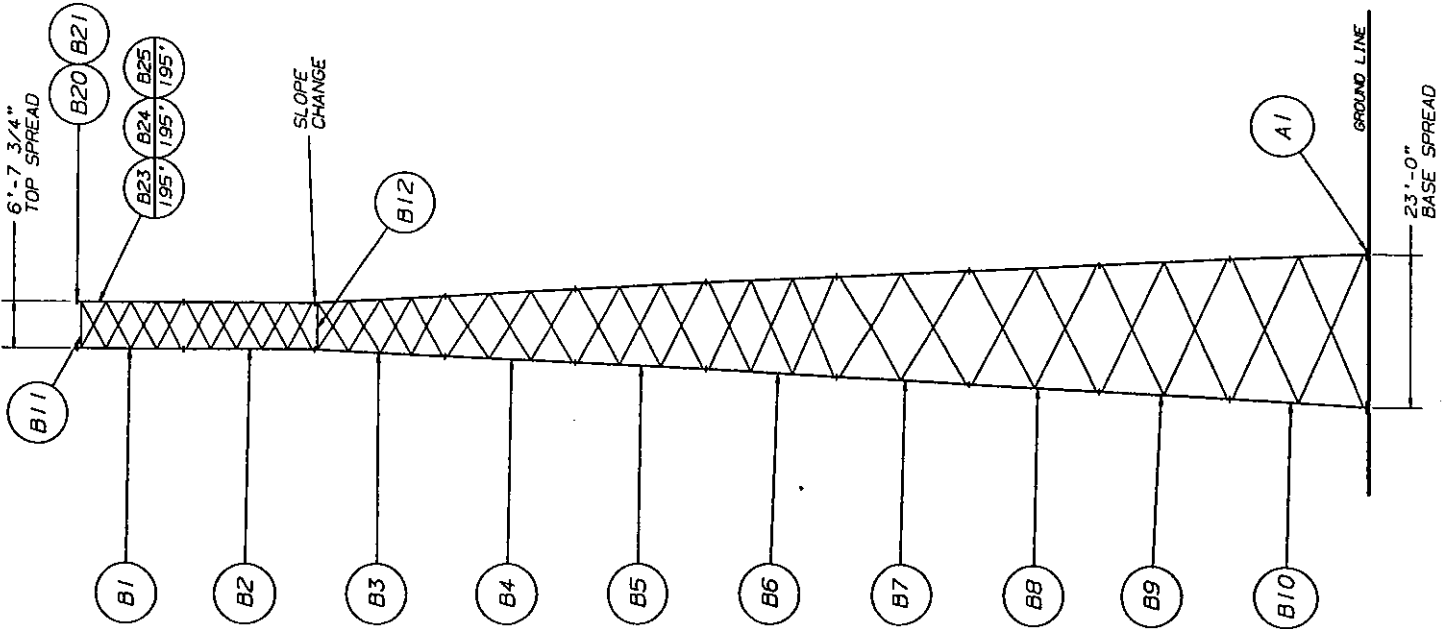


**EAST ELEVATION**

<p><b>SNET MOBILITY PRELIMINARY DESIGN EXHIBIT</b></p>	NORTH	SITE NAME: SBA ANSONIA		SNET #:	
		ADDRESS: WAKELEE AVE ANSONIA, CT		MGI #: 15364	
		DRAWN: JCJ	CHECKED: GMP	SCALE: N.T.S.	TASK #: 1185
					DATE: 02/01/01
 <p><b>Maguire Group Inc.</b> Architects-Engineers-Planners One Court Street New Britain, Connecticut 06051</p>	<p>THIS DRAWING AND ALL DATA CONTAINED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. NOT INTENDED FOR DESIGN OR CONSTRUCTION USE. ALL DATA SHOULD BE VERIFIED</p>				



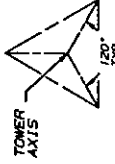
TOWER HT. 196'



**TOWER DESIGN LOADING**  
 DESIGN WIND LOAD PER ANSI/TIA/EIA-222-F 1996,  
 80 MPH BASIC WIND SPEED (1/2" RADIAL ICE LOAD).

THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT.)	ANTENNA TYPE	E.P.A. (SF)		LINE SIZE
		NO ICE	WITH ICE	
TOP	(12) ALP9212N ANTENNAS W/ 12" LEG MOUNTING FRAMES	111.0 TOTAL	135.0 TOTAL	(12) 1-5/8"
187	(12) ALP9212N ANTENNAS W/ 12" LEG MOUNTING FRAMES	111.0 TOTAL	135.0 TOTAL	(12) 1-5/8"
177	(12) ALP9212N ANTENNAS W/ 12" LEG MOUNTING FRAMES	111.0 TOTAL	135.0 TOTAL	(12) 1-1/4"
167	(12) ALP9212N ANTENNAS W/ 12" LEG MOUNTING FRAMES	111.0 TOTAL	135.0 TOTAL	(12) 1-1/4"
80	(12) ALP9212N ANTENNAS W/ 12" LEG MOUNTING FRAMES	111.0 TOTAL	135.0 TOTAL	(12) 7/8"



**TOWER CONFIGURATION**  
 N.T.S.

TOWER SITE: ANSONIA/CT754  
 LITCHFIELD COUNTY, CT.

FOR GENERAL NOTES SEE DWG. NO.: CT991159, 1-2  
 FOR BILL OF MATERIAL SEE DWG. NO.: CM991159-1

SCANNED

**TOWER REACTIONS**

COMPRESSION	343.0 KIPS
TENSION	301.1 KIPS
TOTAL SHEAR	54.4 KIPS
O.T.M.	6297.6 FT.-KIPS

No. **▲** Revision Description **▲** Date **▲** Rev. By **▲** Ckd. By **▲** App'd. By

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

**ROHN**

196' SSV TOWER ASSEMBLY FOR NEXTEL

196' SSV TOWER ASSEMBLY FOR NEXTEL

ENG. FILE: 40895AE DWG. NO.: C991159 SHEET 1 OF 1 REV.

Drawn: LLK 7/09/99  
 Checked: JDR 7/2/99  
 App. Eng.: JDR  
 Parent File: 40895AE

## General Notes

1. ROHN communication tower designs conform to ANSI/TIA/EIA-222-F unless otherwise specified under tower design loading.
2. Antennas and lines listed in tower design loading table are provided by others unless otherwise specified.
3. The design loading criteria indicated has been provided to ROHN. The design loading criteria has been assumed to be based on site-specific data in accordance with ANSI/TIA/EIA-222-F and must be verified by others prior to installation.
4. See individual section assembly drawings for part numbers and section assembly details.
5. Step bolts are provided on one leg only for sections 6 through 11, and all three legs for sections 12 through 16 and all MW sections.
6. Refer to the latest revisions of the drawings shown in the bill of materials.
7. Pal nuts are provided for all tower and anchor bolts (see DWG. A790135).
8. The leg part number is stamped at the bottom of each leg of each section.
9. Design assumes level grade at tower site.
10. Work shall be in accordance with ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".
11. Tolerance on tower steel height is equal to plus 1.50% or minus 0%.
12. Purchaser shall verify the installation is in conformance with local, state, and federal requirements for obstruction marking and lighting.
13. Tower member design does not include stresses due to erection since erection equipment and conditions are unknown. Design assumes competent and qualified personnel will erect the tower.
14. Design assumes that, as a minimum, maintenance and inspection will be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.
15. Tower orientation to be determined by others.
16. Design assumes ALP type antennas are mounted symmetrically to minimize torque.
17. Design assumes that antenna transmission lines and (5) waveguide ladders are distributed over three tower faces.
18. Waveguide and climbing ladder sections may require field cutting to proper length after assembly. All field cutting must be repaired with cold galv or zinc rich paint.
19. Waveguide lines are to be placed on the inside face or outside face of tower as recommended by customer to facilitate future installation of transmission lines.

This drawing is the property of ROHN. It is not to be reproduced, copied, or traced in whole or in part without our written consent.

# ROHN®

<b>Scale:</b> none	<b>By:</b> LLK	<b>Date:</b> 07/09/99	<b>Title:</b>  General Notes for NEXTEL	
<b>Drawn:</b>	JDM	7-9-99		
<b>Checked:</b>	TJ	7-10-99		
<b>App. Eng.:</b>				
<b>App. Sales:</b>			<b>Eng. File:</b> 40895AE	<b>Drawing No.:</b> CT991159-1

## General Notes

20. One 15-hole waveguide ladder with 4'-0" on center rung spacing is provided from 10'± elevation to top of tower for snap-on hangers. (four waveguide ladders are future all running from 10'± elevation up to the following elevations: 80'±, 167'±, 177'±, and 187'±)
21. Standard inside corner mounted climbing ladder is provided for climbing the entire tower height.
22. Foundations must be designed per a site specific soils report to support reactions shown.
23. 12' leg mounting frames are to be provided by others, except as noted.
24. Numbers shown in balloons denote item numbers in bill of material.

This drawing is the property of ROHN. It is not to be reproduced, copied, or traced in whole or in part without our written consent.

# ROHN®

Scale: none	By	Date	Title:	General Notes for NEXTEL
Drawn:	LLK	07/09/99		
Checked:	JDM	7-9-99		
App. Eng.:	TS	7-10-99		
App. Sales:			Eng. File: 40895AE	Drawing No.: CT991159-2



# 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@po.state.ct.us](mailto:siting.council@po.state.ct.us)

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

March 21, 2001

Honorable James T. DellaVolpe  
Mayor  
City of Ansonia  
City Hall  
253 Main Street  
Ansonia, CT 06401-1866

RE: **TS-CING-002-010320** - SNET Cellular, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut.

Dear Mr. DellaVolpe:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for March 28, 2001, at 1:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

Joel M. Rinebold  
Executive Director

JMR/RKE/laf

Enclosure: Notice of Tower Sharing

c: Peter Crabtree, Zoning Enforcement Officer, City of Ansonia



**City of Ansonia**  
OFFICE OF THE MAYOR  
CITY HALL  
253 MAIN STREET  
ANSONIA, CONNECTICUT 06401

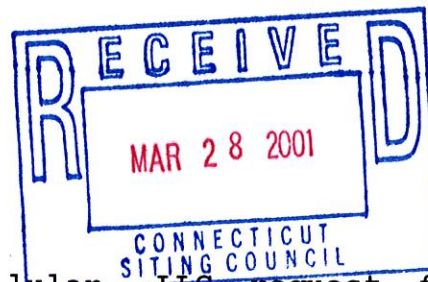
**James Della Volpe**  
*Mayor*

Office: (203) 736-5900  
Fax: (203) 734-3853  
E-mail: mayordellavolpe@snet.net

March 27, 2001

**VIA FACSIMILE AND REGULAR MAIL**  
(860) 827-2950

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
State of Connecticut  
Ten Franklin Square  
New Britain, Connecticut 06051



**Re: TS-CING-002-010320 - SNET Cellular, LLC request for an order to approve tower sharing at an existing telecommunications facility located at 401 Wakelee Avenue, Ansonia, Connecticut**

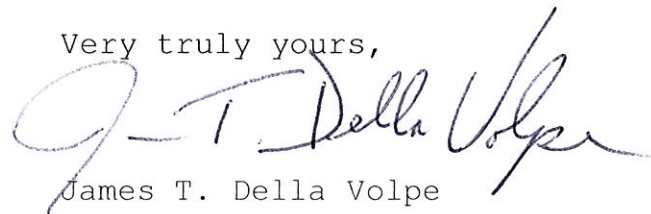
Dear Director Rinebold:

Thank you for your letter of March 21, 2001 with respect to the above-captioned matter.

Please be advised that the City of Ansonia has no objection to the request for tower sharing provided that the City of Ansonia and SpectraSite Communications, Inc. can come to an agreement as to the terms of the lease.

Thank you for your attention to this matter.

Very truly yours,

  
James T. Della Volpe

cc: Cingular Wireless (860-513-7614)  
SpectraSite Communications, Inc. (713-839-0952)