

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

March 18, 2004

Michele G. Briggs  
Manager of Real Estate  
Southwestern Bell Mobile Systems, LLC  
500 Enterprise Drive  
Rocky Hill, CT 06067-3900

RE: **EM-CING-027-040309** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 46 Meadow Road, Clinton, Connecticut.

Dear Ms. Briggs:

At a public meeting held on March 17, 2004, 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 March 8, 2004. 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. 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,

  
Pamela B. Katz  
Chairman

PBK/cm

c: Honorable James M. McCusker, Jr., First Selectman, Town of Clinton  
Thomas Lane, Zoning Enforcement Officer, Town of Clinton  
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae LLP  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP  
Kenneth C. Baldwin, Esq., Robinson & Cole LLP  
SBA Properties, Inc.



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

March 9, 2004

Honorable James M. McCusker, Jr.  
First Selectman  
Town of Clinton  
54 East Main Street  
Clinton, CT 06413

RE: **EM-CING-027-040309** - Southwestern Bell Mobile Systems, LLC notice of intent to modify an existing telecommunications facility located at 46 Meadow Road, Clinton, Connecticut.

Dear Mr. McCusker:

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 Wednesday, March 17, 2004 at 1:30 p.m. in Hearing Room One, 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,

S. Derek Phelps  
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Thomas Lane, Zoning Enforcement Officer, Town of Clinton



Fax: (860) 513-7190

**Michele G. Briggs**  
*Manager of Real Estate*

March 8, 2004

RECEIVED  
MAR - 9 2004

CONNECTICUT  
SITING COUNCIL

Ms. Pam Katz, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

**Re: Notice of Exempt Modification – Existing SBA Telecommunications Tower Facility at 46 Meadow Road, Clinton, Connecticut**

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower off Meadow Road in Clinton, Connecticut.

The Clinton facility is located at 46 Meadow Road, which is near the New Haven Railroad line about 1,500 feet north of US Hwy 1. Tower coordinates (NAD 83) are N 41° 16’ 30.7” and W 72° 29’ 51.8”. The facility is owned and operated by SBA Properties, Inc. (“SBA”), 5900 Broken Sound Parkway NW, Boca Raton, FL 33487. SBA leases the land from Michael and Anne Charney.

Please accept this letter as notification to the Council, 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 is being sent to the 1st Selectman of Clinton.

SBMS, the local component of the nationwide Cingular Wireless network, is licensed by the Federal Communications Commission (“FCC”) to provide cellular mobile telephone service in the Hartford, CT Metropolitan Statistical Area, which includes the area to be served by SBMS’ proposed installation. The public need for cellular service has been predetermined by the FCC.

SBA has agreed to plans put forth by SBMS pursuant to mutually acceptable terms and conditions and has also authorized SBMS to obtain necessary government approvals. Attached to this Notice are a site location map, a proposed site plan, the proposed tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the proposed SBMS telecommunications equipment.

The SBA facility was approved by local zoning in 1999, which was prior to the November 2000 Covello decision concerning Council and Town jurisdiction for tower siting. The tower came under Council jurisdiction with Verizon's application to co-locate in TS-VER-027-010615, which was approved on July 11, 2001.

The Meadow Road facility consists of a 195-foot self-supported lattice tower within a roughly 70' x 70' square compound surrounded by a 6-ft high chain link fence topped by barbed wire. T-Mobile, Sprint, and Verizon operate antennas and associated equipment at the facility.

As shown on the attached drawings and as further described below, SBMS proposes to install up to twelve CSS DUO-1417-8686 panel antennas, approximately 48 inches in height, with the center of radiation approximately 152 feet above ground level. Associated equipment to be installed on the tower are up to six dual-band tower top amplifiers ("TTA's"; small metal boxes approximately 26 pounds apiece) immediately behind the antennas, and up to three very small (5 pounds apiece) CSS dual-band "combiners." SBMS also proposes to place a 12' x 20' prefabricated concrete equipment building at the base of the tower. All work will be done inside the existing fenced compound.

With the "GSM-only" configuration, SBMS will broadcast up to:

- 2 channels, 296 Watts ERP, 880 – 894 MHz; and
- 2 channels, 427 Watts ERP, 1930 – 1935 MHz.

### **Statutory Considerations**

The changes to the Clinton tower facility do not constitute a modification 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) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.
2. The proposed changes will not affect the property boundaries. All new construction will take place on property leased by SBA and within the existing fenced compound.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
4. 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 <sup>†</sup> (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
T-Mobile *	192.5	1935.4	not given		0.0247	1.0000	2.47
Sprint *	182.5	1962.5	11	285.1	0.0339	1.0000	3.39
(unoccupied)							
Verizon *	162.5	869	not given		0.0247	0.5793	4.26
Cingular	152	880 - 894	2	296	0.0092	0.5867	1.57
Cingular	152	1930 - 1935	2	427	0.0133	1.0000	1.33
<b>Total</b>							<b>13.02%</b>

\* Power density parameters taken from Sprint's application to the Council in TS-SPRINT-027-021125.

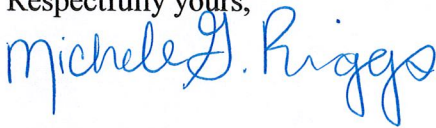
† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 13% of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from SBMS' use of the tower facility would thus be within applicable standards.

For the foregoing reasons, SBMS respectfully submits that proposed changes to implement expanded shared use at the Clinton site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 or Steve Levine at (860) 513-7636 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,



Michele G. Briggs  
Manager of Real Estate

Enclosures

cc: Honorable James M. McCusker, Jr., 1st Selectman, Town of Clinton



**Southwestern Bell Mobile Systems, LLC**  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7700  
Fax: (860) 513-7190

**Michele G. Briggs**  
*Manager of Real Estate*

March 8, 2004

Honorable James M. McCusker, Jr.  
1st Selectman, Town of Clinton  
Town Hall 54 East Main Street  
Clinton, Connecticut 06413

**Re: Notice of Exempt Modification – Existing SBA Telecommunications Tower Facility at 46 Meadow Road, Clinton, Connecticut**

Dear Mr. McCusker:

Southwestern Bell Mobile Systems, LLC (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 46 Meadow Road in Clinton, Connecticut.

The facility is owned and operated by SBA Properties, Inc. (“SBA”), 5900 Broken Sound Parkway NW, Boca Raton, FL 33487. SBA leases the land from Michael and Anne Charney.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73. Please accept this letter as notification to the Town of Clinton under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

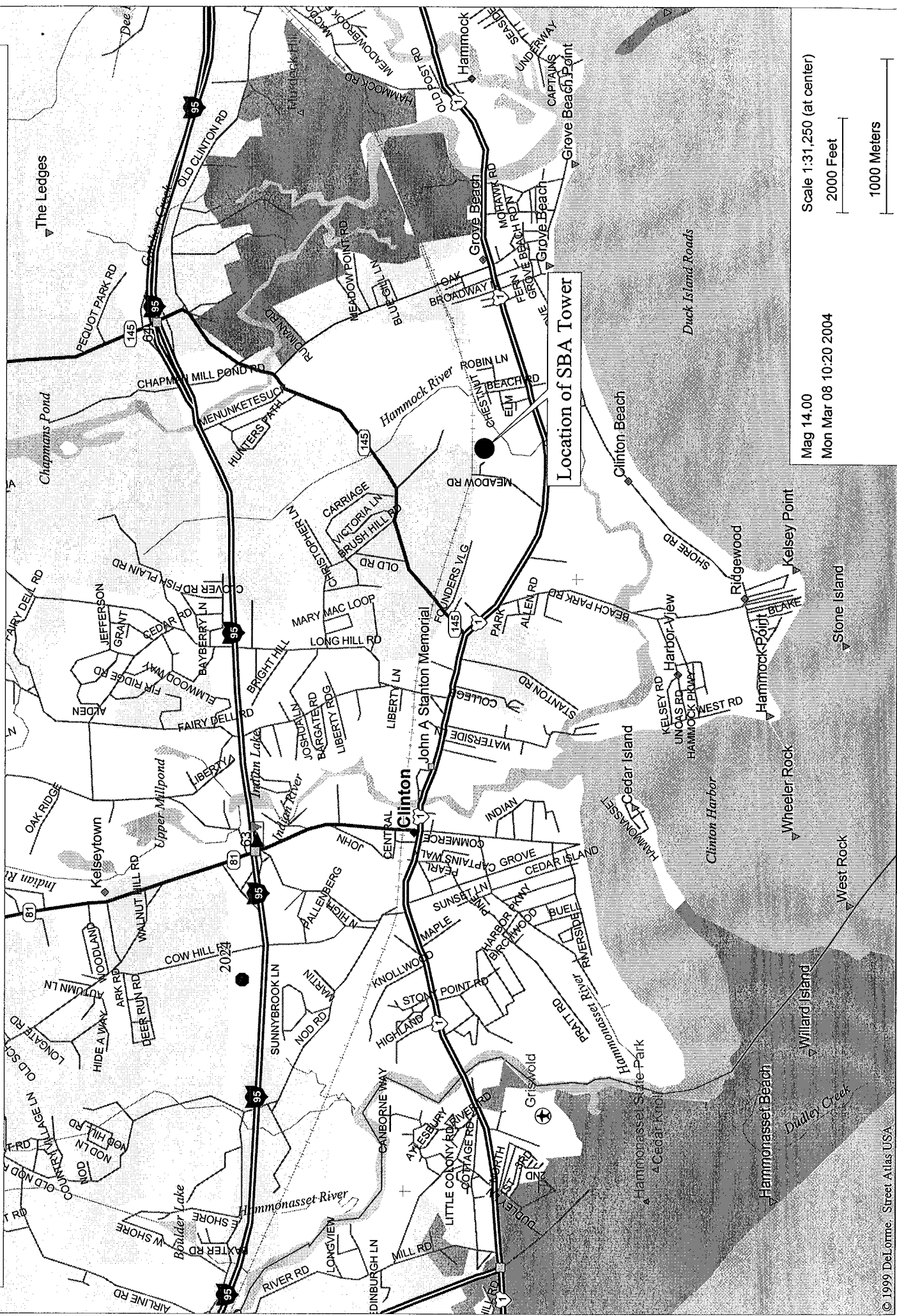
The attached letter fully sets forth the SBMS proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Michele G. Briggs  
Manager of Real Estate

Enclosure

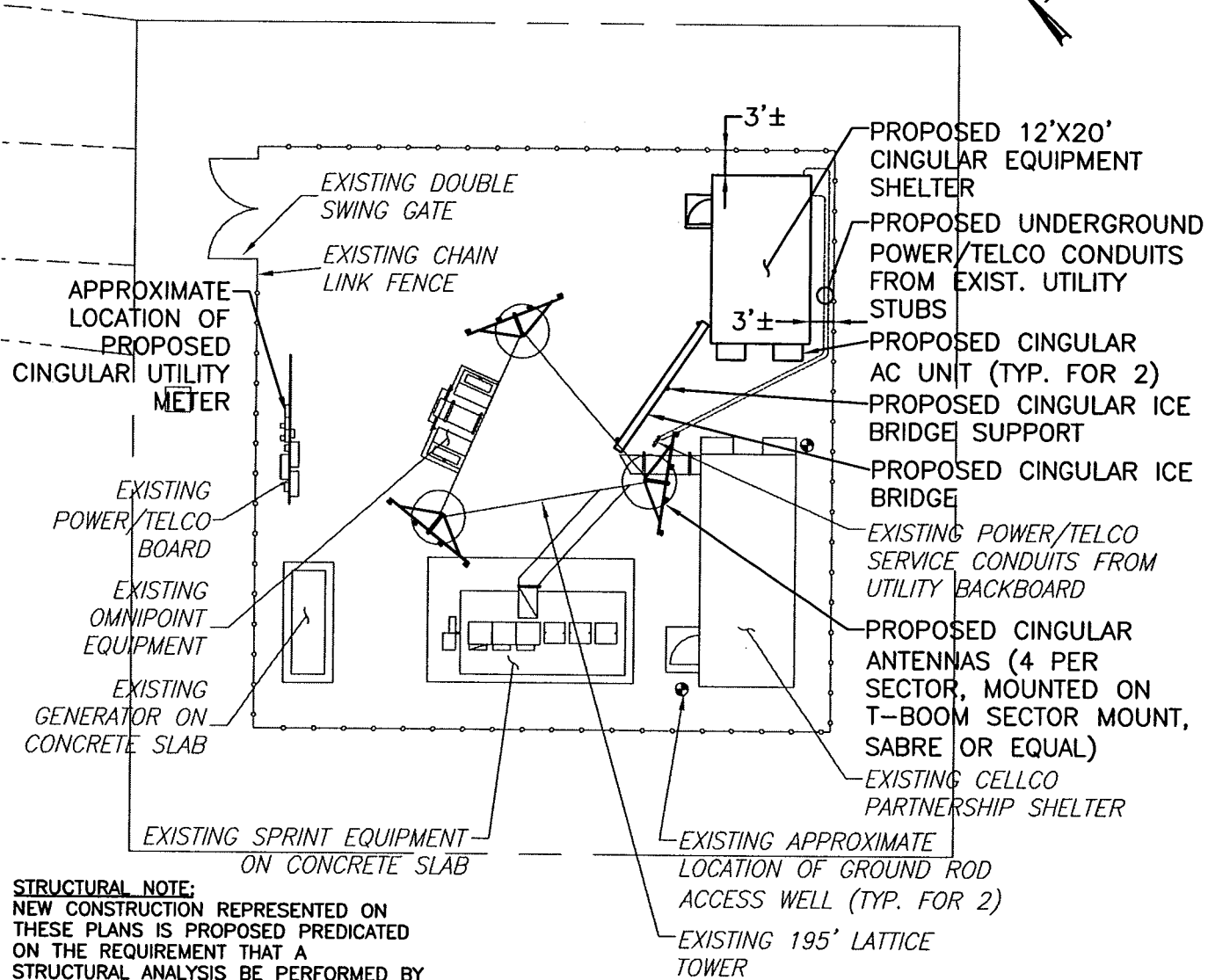
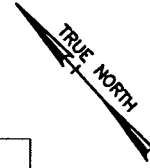
# Clinton - Meadow Road



Mag 14.00  
Mon Mar 08 10:20 2004  
Scale 1:31,250 (at center)  
2000 Feet  
1000 Meters

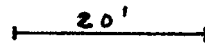
NOTE 1:  
DRAWING IS SCHEMATIC.  
FINAL EQUIPMENT LOCATIONS,  
ANTENNA TYPES, AND ANTENNA  
AZIMUTHS WILL BE FINALIZED  
UPON COMPLETION OF DESIGN.

NOTE 2:  
THIS DOCUMENT WAS DEVELOPED TO  
REFLECT A SPECIFIC SITE AND ITS SITE  
CONDITIONS AND IS NOT TO BE USED  
FOR ANOTHER SITE OR WHEN OTHER  
CONDITIONS PERTAIN. REUSE OF THIS  
DOCUMENT IS AT THE SOLE RISK OF THE  
USER.



**STRUCTURAL NOTE:**  
NEW CONSTRUCTION REPRESENTED ON THESE PLANS IS PROPOSED PREDICATED ON THE REQUIREMENT THAT A STRUCTURAL ANALYSIS BE PERFORMED BY A LICENSED CONNECTICUT PROFESSIONAL STRUCTURAL ENGINEER AND CERTIFICATION IS GIVEN BY THE ENGINEER THAT THE EXISTING TOWER AND ALL EXISTING AND PROPOSED ANTENNAS AND APPURTENANCES SUPPORTED BY THE TOWER AND ANY REQUIRED IMPROVEMENTS AND REINFORCEMENTS HAVE SUFFICIENT STRUCTURAL CAPACITY AND COMPLY WITH THE CONNECTICUT BUILDING CODE AND ALL APPLICABLE EIA/TIA CRITERIA. NO WORK PROPOSED HEREON SHALL BE PROGRESSED WITHOUT CONFIRMATION OF THIS CERTIFICATION.

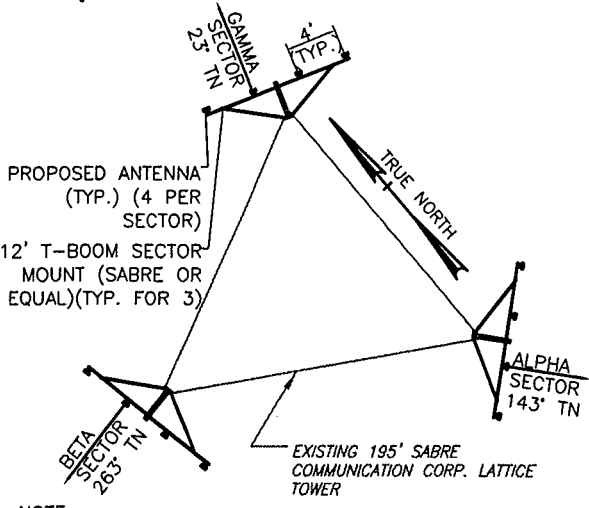
**LEASE PLAN**  
SCALE: 1"=20'



Q:\3752\01-Clinton\cadd\cell\LEASE\3752-01-LE1.dwg By: MJS  
 Wed, Feb 18 2004 11:57:59am Plot: msmith Xref: Loyer State:

<b>Dewberry-Goodkind, Inc.</b> A Dewberry Company 59 Elm Street, Suite 101 New Haven, CT 06510 p. (203) 776-2277 f. (203) 776-2288  Engineers Planners Surveyors	SCALE: AS SHOWN	LEASING ELEVATION	
	DESIGNED BY: CKD		
	DATE: 02/17/04		

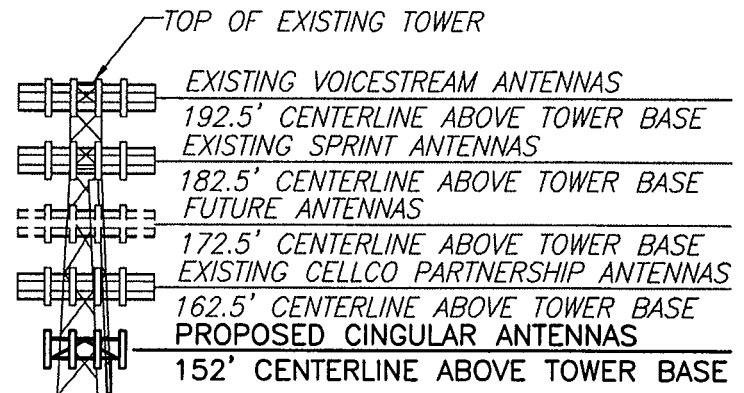




PROPOSED ANTENNA (TYP.) (4 PER SECTOR)  
 12' T-BOOM SECTOR MOUNT (SABRE OR EQUAL)(TYP. FOR 3)

NOTE:  
 ANTENNA AZIMUTHS AND MOUNTING DETAILS SHALL BE FINALIZED UPON COMPLETION OF SITE DESIGN.

**TOP VIEW**  
 SCALE: N.T.S.

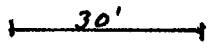


TOP OF EXISTING TOWER  
 EXISTING VOICESTREAM ANTENNAS  
 192.5' CENTERLINE ABOVE TOWER BASE  
 EXISTING SPRINT ANTENNAS  
 182.5' CENTERLINE ABOVE TOWER BASE  
 FUTURE ANTENNAS  
 172.5' CENTERLINE ABOVE TOWER BASE  
 EXISTING CELLCO PARTNERSHIP ANTENNAS  
 162.5' CENTERLINE ABOVE TOWER BASE  
 PROPOSED CINGULAR ANTENNAS  
 152' CENTERLINE ABOVE TOWER BASE

PROPOSED CINGULAR COAX CABLE ROUTED UP CABLE LADDER  
 EXISTING 195' SABRE COMMUNICATION CORP. LATTICE TOWER  
 EXISTING SPRINT GPS ANTENNA  
 PROPOSED CINGULAR ICE BRIDGE SUPPORT  
 PROPOSED CINGULAR ICE BRIDGE  
 PROPOSED CINGULAR GPS ANTENNA MOUNTED ON ICE BRIDGE SUPPORT POST (MOUNT 15'± AGL)  
 PROPOSED 12'X20' CINGULAR EQUIPMENT SHELTER  
 EXISTING CELLCO PARTNERSHIP EQUIPMENT SHELTER NOT SHOWN FOR CLARITY  
 EXISTING 6' CHAIN LINK FENCE

NOTE:  
 EXISTING ANTENNA HEIGHTS SHOWN ARE BASED ON A FINAL CONSTRUCTION DRAWING ENTITLED "COMPOUND PLAN AND ELEVATION, JOB NO. 02614, DRAWING NUMBER C-1", BY NATCOMM, LLC FOR SPRINT SPECTRUM.

**SOUTHWEST ELEVATION**  
 SCALE: 1"=30'



Q:\3752\01-Clinton\cadd\cell\LEASE\3752-01-LE2.dwg By: MJS Wed, Feb 18 2004 - 11:59:42am Layer State:

**Dewberry-Goodkind, Inc.**  
 A Dewberry Company  
 59 Elm Street, Suite 101  
 New Haven, CT 06510  
 p. (203) 776-2277  
 f. (203) 776-2288

Engineers  
 Planners  
 Surveyors

SCALE:  
 AS SHOWN  
 DESIGNED BY:  
 CKD  
 DATE:  
 02/17/04

LEASING  
 ELEVATION

SITE NAME **CLINTON**  
 46 MEADOW ROAD  
 CLINTON, CONNECTICUT



SHEET NO.  
**LE2**



59 Elm Street  
Suite 101  
New Haven, Connecticut 06510-2047

203 776 2277  
203 776 2288 fax  
www.dewberry.com

March 4, 2004

Mr. Stephen Schadler  
Cingular Wireless  
500 Enterprise Drive, 3<sup>rd</sup> Floor  
Rocky Hill, CT 06067-3900

**Re: Site Name: Clinton  
195ft Lattice Tower  
46 Meadow Road, Clinton, CT  
Structural Assessment**

Dear Sirs:

We have completed our structural review of the 195ft lattice tower structure's capacity to support an array of panel antennas on Sabre T-Boom Sector Mounts at the above referenced site, pursuant to Section 108.1.1 of the Connecticut State Building Code (CSBC). We reviewed the tower and foundation calculations dated November 19, 1999 prepared by the tower manufacturer Sabre Communications Corporation for SBA, Inc.

Section 1609.1 of the Connecticut State Building Code addresses radio and television towers and references Section 3108.4 of the 1996 BOCA Code. The Boca Code references EIA/TIA 222-E for antenna supporting structures. The calculations indicate that the design of the tower and foundations was based on the later version of the code TIA/EIA 222-F and therefore also satisfies the EIA/TIA 222-E requirements.

The tower is designed to be 195 ft high and support a total of five arrays of 12 panel antennas and mounts at 10ft vertical separation between elevations 155 and 195ft above grade, with 1 5/8" coaxial cables. The design is based on the use of four generic Decibel Products DB896H panel antennas with a wind area of 6.3 sq. ft. per antenna in each of three sectors per array. The Cingular installation will comprised of three sectors with four 2.6 sq ft. antennas in each sector, bypass masthead unit and dual band combiner and coax cables at elevation 152 ft above grade. Antennas from three carriers are currently supported on the tower, Omnipoint at 192.5ft, Sprint at 182ft and Verizon at 162 ft above grade. The structural design by Sabre is presented in spreadsheet format, the lateral wind loads and the gravity loads are calculated by the program in accordance with the requirements of TIA/EIA 222-F. These loads were used to determine the forces in the tower members and the foundation reactions including overturning moment. The foundation is a 72in diameter concrete caisson 51.5ft deep. The drawings indicate that the foundation design is based on the recommendations of a soil report prepared by Jaworski Geotech, Inc. dated April 4, 2001 The wind area of the antennas in use is in general 2.6 sq. ft or 41% of the design area. On the basis of the information provided the structural design was deemed to be in accordance with the requirements of EIA/TIA 222-E.

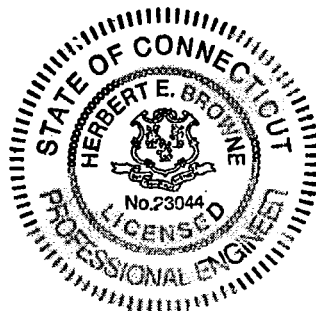
Upon review of the signed and sealed calculations and sketches prepared by Keith Tindall, P.E for Sabre Communications Corporation it is our conclusion that the tower has ample capacity to support the proposed Cingular Wireless antennas, coaxial cables and mounting hardware. The tower, as designed, is in compliance with the Connecticut State Building Code.

Should you have any questions, please feel free to contact us.

Very truly yours,

Dewberry-Goodkind, Inc.

Herbert Browne, P.E.  
Director, Building Structures



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Dewberry-Goodkind, Inc.