

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

April 28, 2008

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

RE: **TS-CING-012-080409** – New Cingular Wireless PCS, LLC request for an order to approve tower sharing at an approved telecommunications facility located at 12 Carpenter Road, Bolton, Connecticut.

Dear Mr. Levine:

At a public meeting held April 24, 2008, the Connecticut Siting Council (Council) ruled that the shared use of this approved 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.

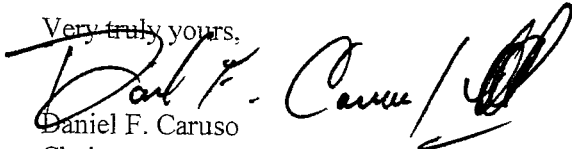
This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction. Please be advised that the validity of this action shall expire one year from the date of this letter.

The proposed shared use is to be implemented as specified in your letter dated April 9, 2008, including the placement of all necessary equipment and shelters within the tower compound.

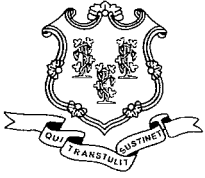
Thank you for your attention and cooperation.

Very truly yours,


Daniel F. Caruso
Chairman

DFC/MP/cm

c: The Honorable Bruno S. Simonetti, First Selectman, Town of Bolton
Bob Grillo, Zoning Enforcement Officer, Town of Bolton
Brad Gannon, MCF Communications bg, Inc.



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Daniel F. Caruso
Chairman

April 10, 2008

The Honorable Bruno S. Simonetti
First Selectman
Town of Bolton
222 Bolton Center Road
Bolton, CT 06043

RE: **TS-CING-012-080409** – New Cingular Wireless PCS, LLC request for an order to approve tower sharing at an approved telecommunications facility located at 12 Carpenter Road, Bolton, Connecticut.

Dear Mr. Simonetti:

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 April 24, 2008, at 1:30 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by April 23, 2008.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Tower Sharing

c: Bob Grillo, Zoning Enforcement Officer, Town of Bolton



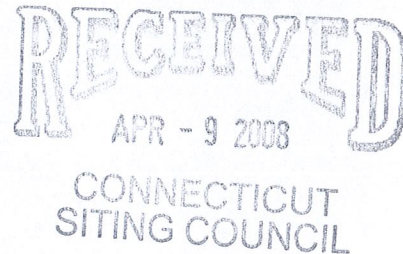
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

TS-CING-012-080409

Steven L. Levine
Real Estate Consultant

April 9, 2008

ORIGINAL



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

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Approved MCF Communications Tower Located at 12 Carpenter Road, Bolton, Connecticut

Dear Chairman Caruso and Members of the Council:

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, New Cingular Wireless PCS, LLC ("Cingular") hereby requests an order from the Connecticut Siting Council ("Council") approving the proposed shared use by Cingular of an approved tower located at 12 Carpenter Road, Bolton, Connecticut. Cingular operates under licenses issued by the Federal Communications Commission ("FCC") to provide cellular and PCS mobile telephone service in Tolland County, which includes the area to be served by Cingular's proposed installation.

A copy of this letter is being sent to the 1st Selectman of the Town of Bolton.

Existing Tower Facility

The Bolton facility is located approximately 1,000 feet west of the intersection of Interstate Highway 384 and CT Route 85. Tower coordinates (NAD 83) are N 41° 46' 44.7" and W 72° 27' 55.1".

The facility is owned and operated by MCF Communications, Inc., 668 Main Street, Suite 114, Wilmington, MA 01887 ("MCF"), under a lease with property owner Terry Veo.

The tower was approved by the Council in Docket 323 on May 22, 2007.

The approved MCF facility will consist of a 140-foot monopole tower within a 70 ft x 70 ft compound surrounded by a chain link fence. T-Mobile, Verizon, and Sprint were approved to use the tower in Docket 323.

Proposed Shared Use of the SBA Tower

Cingular proposes to install up to six Powerwave 7770.00 dual band panel antennas, or their equivalent, approximately 55 inches in height, at a centerline height of 107 feet above ground level. Cingular also proposes to place a 12 ft x 20 ft prefabricated concrete equipment shelter at the base of the tower.

Attached to this Request for Tower Sharing are a site location map, the proposed site plan, the proposed tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the proposed Cingular telecommunications equipment.

Statutory Considerations

Cingular 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.

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 approved MCF tower will be structurally sound and capable of supporting the proposed shared use of the Cingular antennas at 107 feet AGL. The proposed shared use of this tower is therefore technically feasible.
- B. **Legal Feasibility.** Under C.G.S §16-50aa, the Council has been authorized to issue an order approving the proposed shared use of a tower facility such as the facility to be located at 12 Carpenter Road in Bolton (C.G.S §16-50aa(c) (1)). Under the authority vested in the Council by C.G.S §16-50aa, an order approving the shared use of the MCF tower would satisfy Cingular’s Siting Council obligations and permit it 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. 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 addition of the proposed antennas would not increase the height of the monopole tower. Cingular’s equipment will be housed in an equipment shelter, and all construction will occur in the existing equipment compound.

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 is as follows:

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
Verizon Wireless *	137	1970	3	485	0.0279	1.0000	2.79
Verizon Wireless *	137	875	9	200	0.0345	0.5833	5.91
T-Mobile *	127	1945	12	162	0.0433	1.0000	4.33
Sprint -Nextel *	117	851	12	100	0.0315	0.5673	5.56
Cingular GSM	107	1900 Band	2	296	0.0186	1.0000	1.86
Cingular GSM	107	850 Band	4	296	0.0372	0.5867	6.34
Cingular UMTS	107	850 Band	1	500	0.0157	0.5867	2.68
Total							29.5%

* Source: Siting Council records

† 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 "worst-case" exposure would be approximately 29.5 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Cumulative power density levels resulting from Cingular's proposed use of the tower facility would thus be well within 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 six 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.** Cingular has entered into an agreement with MCF to share use of the tower. The proposed facility sharing is therefore economically feasible.

E. **Public Safety Concerns.** As stated above, the existing tower is structurally capable of supporting Cingular's proposed antennas, and radio frequency emissions fall well below State and Federal safety standards. Cingular 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 Bolton's residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing MCF tower at 12 Carpenter Road in Bolton 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. Cingular therefore respectfully requests that the Council issue an order approving the proposed shared use. Thank you for your attention to this matter.

Please feel free to call me at (860) 513-7636 with questions concerning this tower sharing request. Thank you for your consideration in this matter.

Sincerely,

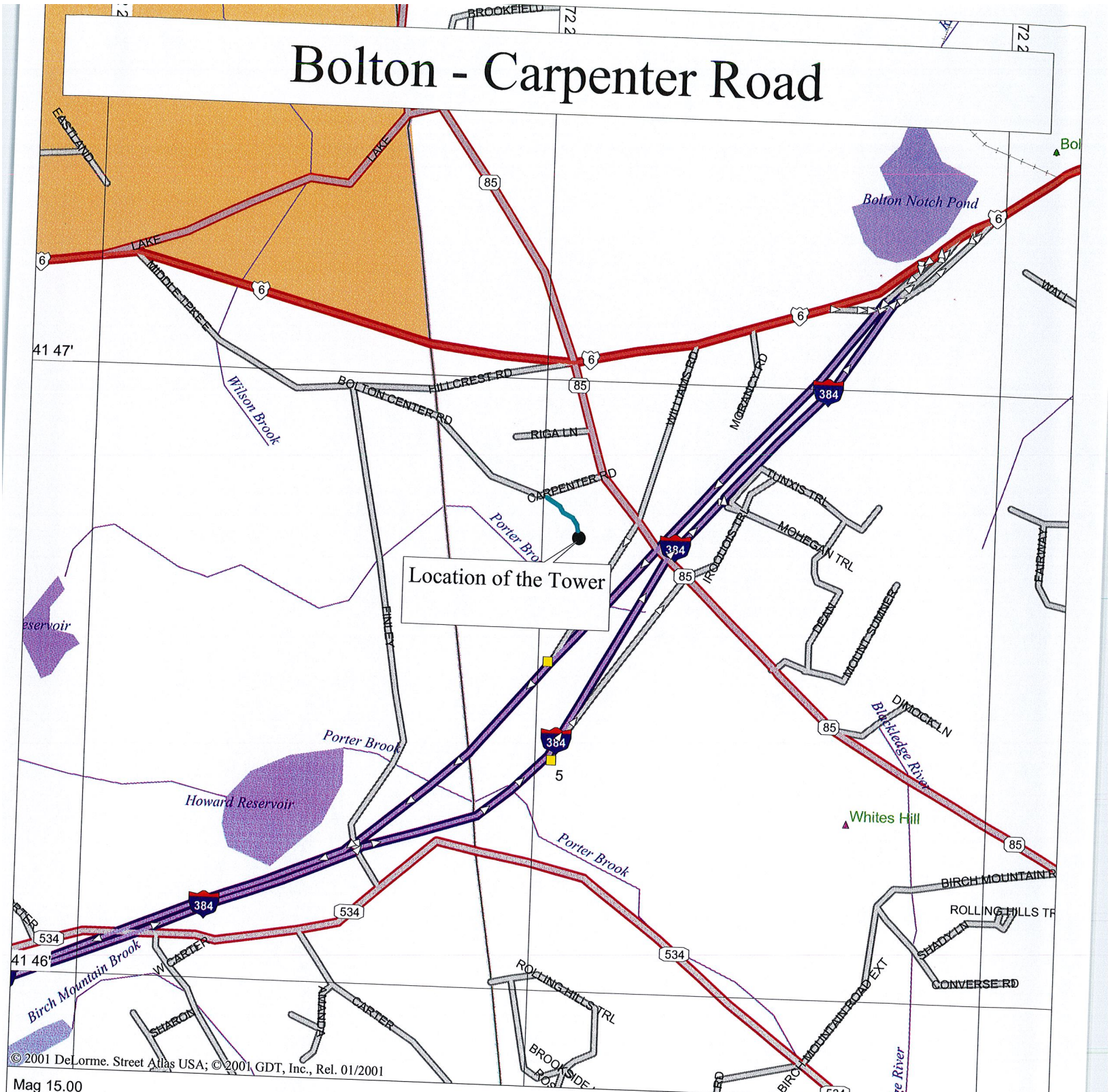
A handwritten signature in blue ink, appearing to read "S.L. Levine".

Steven L. Levine
Real Estate Consultant

cc: Honorable Bruno S. Simonetti, 1st Selectman, Town of Bolton
Michele G. Briggs, Manager of Real Estate
Christopher B. Fisher, Esq.

Enclosures

Bolton - Carpenter Road

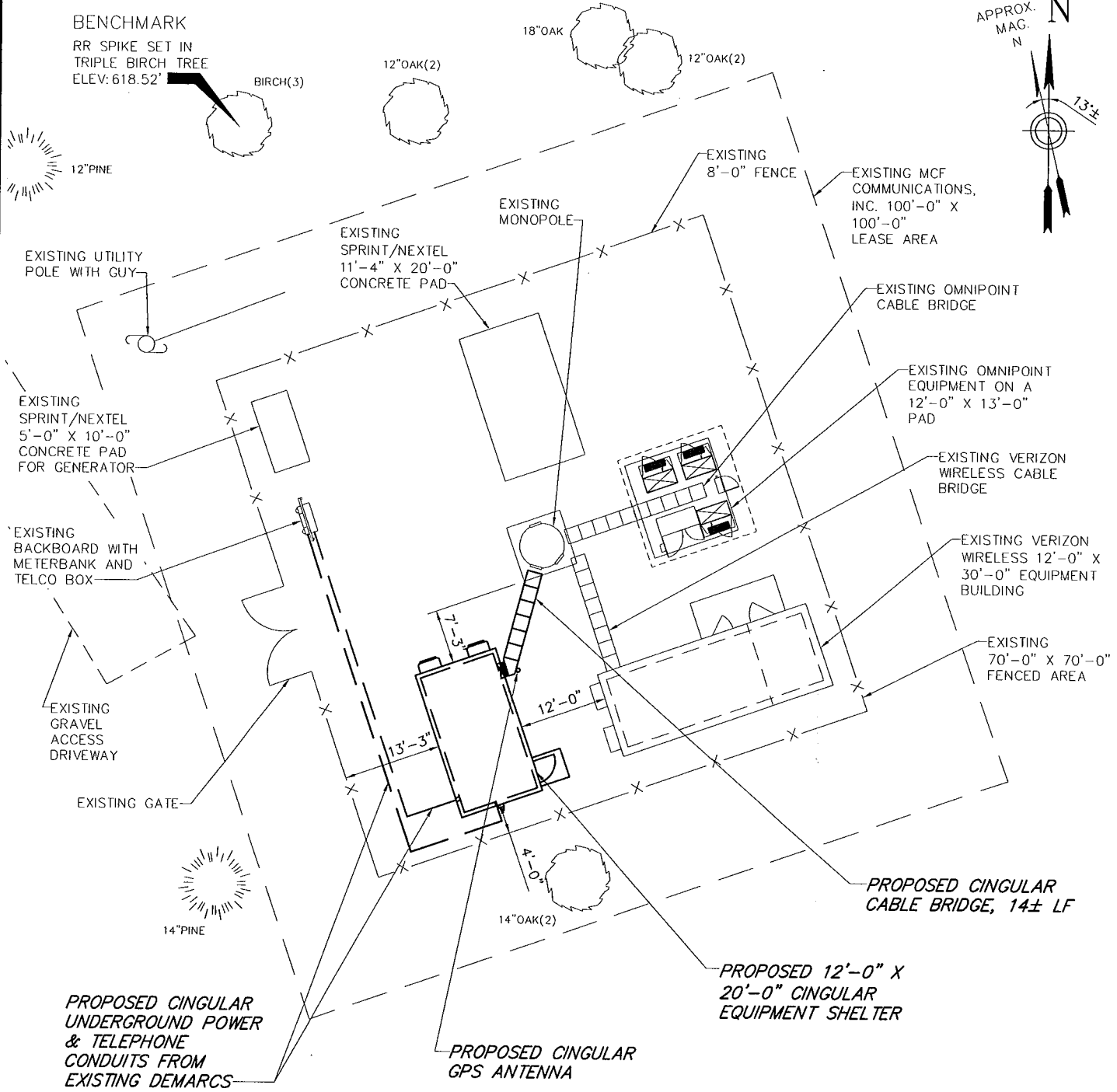
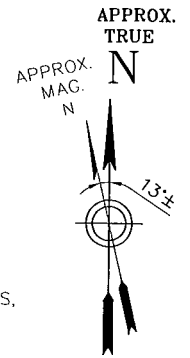


Location of the Tower

© 2001 DeLorme, Street Atlas USA; © 2001 GDT, Inc., Rel. 01/2001

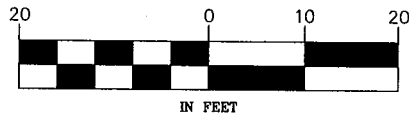
Mag 15.00
 Wed Apr 09 12:02 2008
 Scale 1:15,625 (at center)
 1000 Feet
 500 Meters

- Local Road
- Major Connector
- State Route
- Interstate/Limited Access
- US Highway
- Exit
- Summit
- Park/Reservation
- Railroad Abandoned
- County Boundary
- Population Center
- Water
- River/Canal



SITE PLAN

GRAPHIC SCALE



NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

Drawing Copyright © 2008 Clough Harbour & Associates LLP



CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338
Main: (860) 257-4557 - www.cloughharbour.com



NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

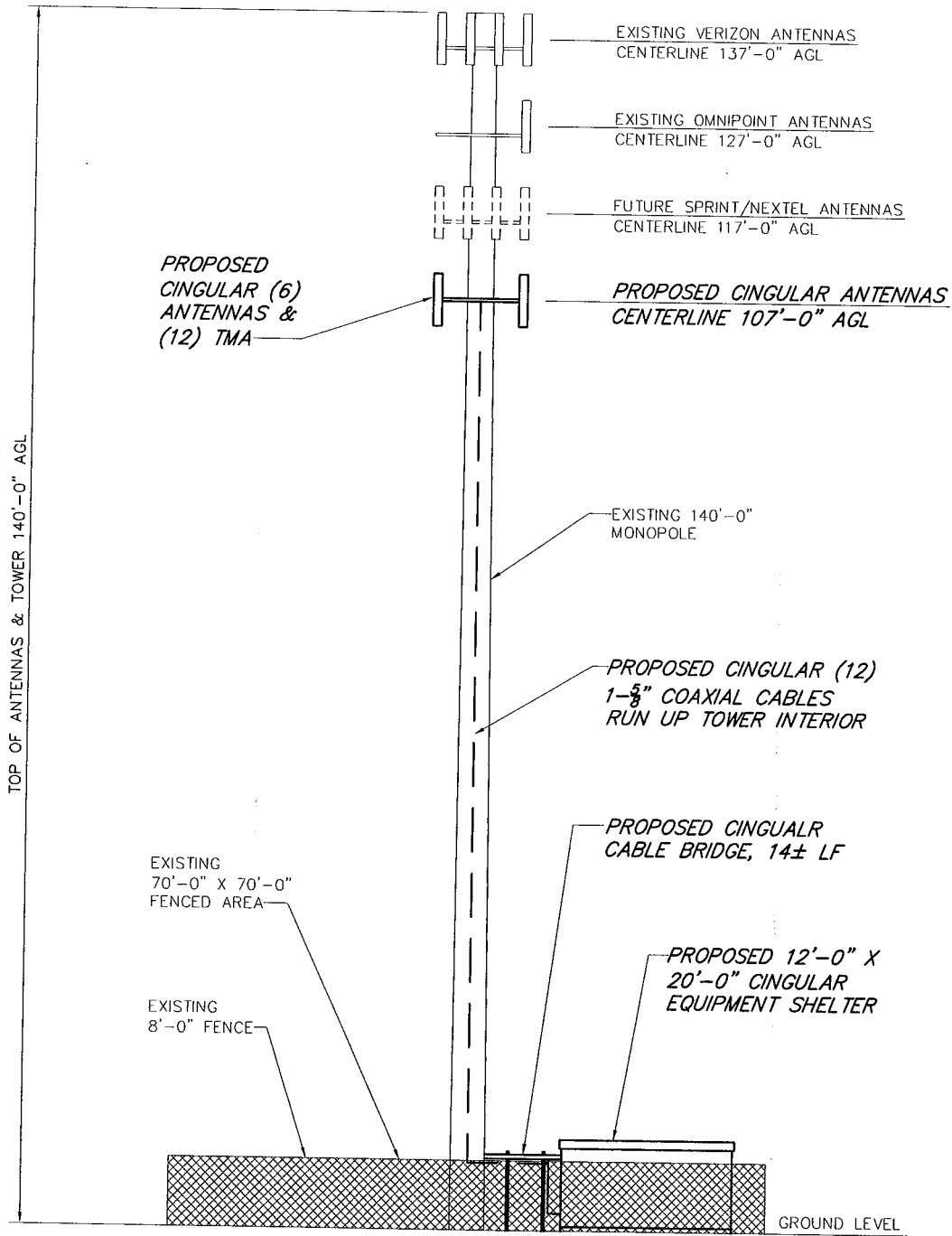
SR1074
MCF BOLTON
12 CARPENTER ROAD
BOLTON, CT 06043

CHA PROJ. NO. - 18301-1001

1 OF 2

REV 0

LE-1



TOWER ELEVATION
NO SCALE

NOTE:
PROPOSED CINGULAR WIRELESS INSTALLATION SHOWN IS ONLY APPROXIMATE. EXACT LOCATIONS AND DETAILS WILL BE DETERMINED BY FINAL ENGINEERING DESIGN.

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CLOUGH HARBOUR & ASSOCIATES LLP
2139 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2336
Main: (860) 257-4557 - www.doughharbour.com



NEW CINGULAR WIRELESS PCS, LLC
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1074
MCF BOLTON
12 CARPENTER ROAD
BOLTON, CT 06043

CHA PROJ. NO. - 18301-1001

2 OF 2

REV 0

LE-2



CLOUGH HARBOUR & ASSOCIATES LLP

April 8, 2008

Mr. Steve Levine
Real Estate Consultant
500 Enterprise Drive, 3rd Floor
Rocky Hill, CT 06067

**RE: Structural Review – SR1074 – MCF Bolton
Located in Bolton, CT
CHA File No.: 18301-1001-1203, Rev 0**

Dear Mr. Levine:

Clough Harbour & Associates LLP has completed a structural review of the proposed installation at the above referenced site. Our review is based on the following information:

- Proposed equipment information and elevation provided by SAI Cingular.
- A field visit performed by CHA on March 19, 2008.
- Design drawings by Fred A. Nudd Corporation, Drawing number 207-13312, dated September 5, 2007.

The existing antenna loading consists of:

Verizon

- Twelve (12) panel antennas mounted on a 14' low profile platform at a centerline elevation of 137'-0" AGL with twelve (12) 1-5/8 coaxial cables.

Omnipoint

- Three (3) panel antennas mounted on a 14' low profile platform at a centerline elevation of 127'-0" AGL with twelve (12) 1-5/8 coaxial cables.

The proposed installation consists of:

Cingular

- Six (6) Powerwave 7770 panel antennas mounted to the existing monopole at an antenna centerline elevation of 107' AGL, with twelve (12) 1-5/8" coaxial lines supported inside the pole.
- Twelve (12) Powerwave LGP 214nn TMAs mounted to the existing monopole tower at a centerline elevation of 107' AGL. Proposed TMAs to be mounted behind proposed panel antennas (Typical of 2 per antenna) to reduce wind area.

The original design equipment loading consists of:

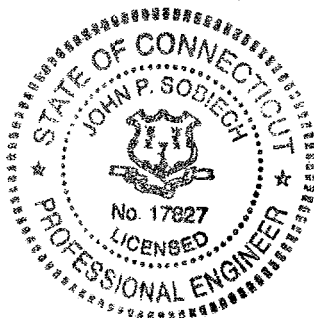
- Twelve (12) 6' x 1' panel antennas mounted on a 14' low profile platform at a centerline elevation of 139'-0" AGL with twelve (12) 1-5/8 coaxial cables.
- Twelve (12) 6' x 1' panel antennas mounted on a 14' low profile platform at a centerline elevation of 130'-0" AGL with twelve (12) 1-5/8 coaxial cables.
- Twelve (12) 6' x 1' panel antennas mounted on a 14' low profile platform at a centerline elevation of 120'-0" AGL with twelve (12) 1-5/8 coaxial cables.
- Twelve (12) 6' x 1' panel antennas mounted on a 14' low profile platform at a centerline elevation of 110'-0" AGL with twelve (12) 1-5/8 coaxial cables.

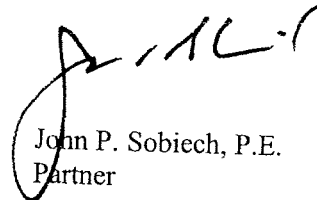
It is our opinion that the existing structure is capable of supporting the proposed loads. This opinion is based on the method of installation, and the existing structural conditions identified at the time of our review.

If you have any questions or comments relating to this matter please do not hesitate to contact our office.

Very truly yours,

CLOUGH HARBOUR & ASSOCIATES LLP




John P. Sobiech, P.E.
Partner



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

April 9, 2008

Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Approved MCF Communications Tower Located at 12 Carpenter Road, Bolton, Connecticut.

Honorable Bruno S. Simonetti
1st Selectman, Town of Bolton
Town Hall 222 Bolton Center Road
Bolton, CT 06043-7698

Dear Mr. Simonetti:

Consistent with the State of Connecticut's statutory policy of encouraging tower sharing, New Cingular Wireless PCS, LLC ("Cingular") intends to install cellular antennas and equipment at an approved multicarrier telecommunications tower at 12 Carpenter Road in Bolton.

The facility is owned and operated by MCF Communications, Inc., 668 Main Street, Suite 114, Wilmington, MA 01887, under a lease with property owner Terry Veo.

Pursuant to Connecticut General Statutes Section 16-50aa, Cingular has requested an order approving shared use of the tower from the Connecticut Siting Council.

As required by Section 16-50j-73 of the Regulations of Connecticut State Agencies, we are providing you with copies of this letter and the attached letter to the Siting Council as notice of Cingular's plans.

The accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure