



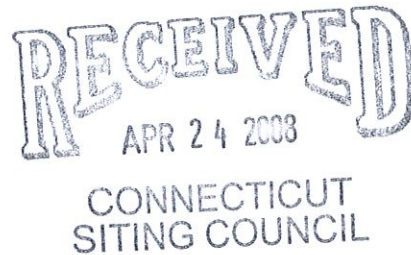
New Cingular Wireless PCS, LLC  
500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7636  
Fax: (860) 513-7190

TS-CING-002-080424

Steven L. Levine  
Real Estate Consultant

April 24, 2008

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 Optasite Communications Tower Located at 1 Deerfield Lane, Ansonia, 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 1 Deerfield Lane, Ansonia, 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 1<sup>st</sup> Selectman of the Town of Ansonia.

**Existing Tower Facility**

The Ansonia facility is located approximately ¾ mile southwest of CT Route 313, about midway between Ansonia and Woodbridge. Tower coordinates (NAD 83) are N 41° 21' 02.7" and W 73° 02' 57.3".

The facility is owned and operated by Optasite, Inc., One Research Drive, Suite 200C, Westborough, MA 01581, under a lease with property owner Macabee Properties, LLC.

The facility was approved by the Council in Docket 340 on November 29, 2007 and is currently under construction.

The approved Optasite facility will consist of a 170-foot monopole tower within a 43 ft x 73 ft

compound surrounded by a chain link fence. T-Mobile and Verizon were approved to use the tower in Docket 340.

### **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 147 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 Optasite tower will be structurally sound and capable of supporting the proposed shared use of the Cingular antennas at 147 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 1 Deerfield Lane in Ansonia (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 Optasite 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 <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
T-Mobile *	167	1945	8	142	0.0146	1.0000	1.46
Verizon Wireless *	157	880	9	200	0.0263	0.5867	4.48
Verizon Wireless *	157	1970	6	200	0.0175	1.0000	1.75
Cingular GSM	147	1900 Band	2	296	0.0099	1.0000	0.99
Cingular GSM	147	850 Band	4	296	0.0197	0.5867	3.36
Cingular UMTS	147	850 Band	1	500	0.0083	0.5867	1.42
<b>Total</b>							<b>13.5%</b>

\* 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 13.5 % 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 Optasite 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 Ansonia's residents.

**Conclusion**

For the reasons discussed above, the proposed shared use of the existing Optasite tower at 1 Deerfield Lane in 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. 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,

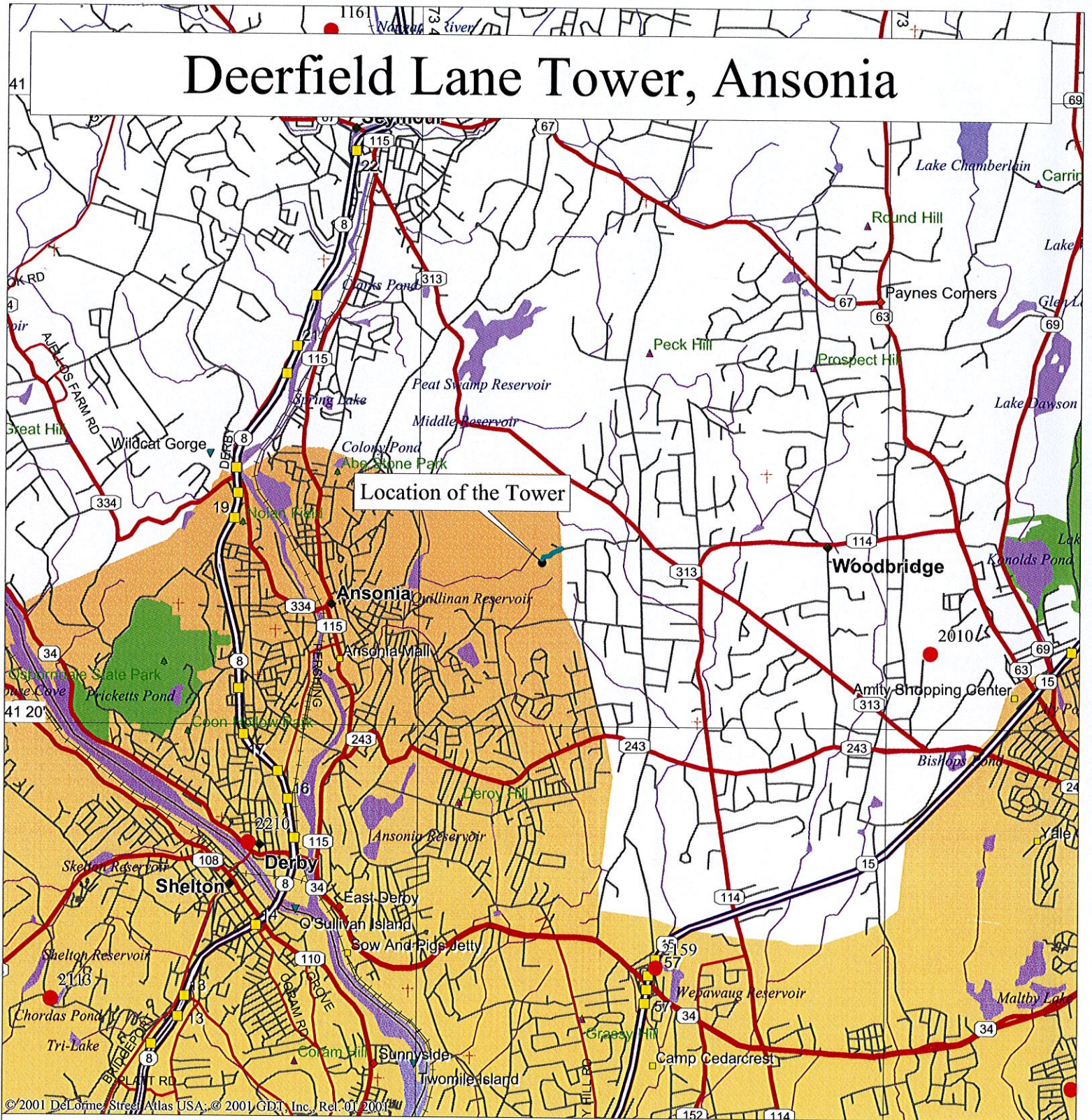


Steven L. Levine  
Real Estate Consultant

cc: Honorable James T. Della Volpe, Mayor, City of Ansonia  
Michele G. Briggs, Manager of Real Estate  
Christopher B. Fisher, Esq.

Enclosures

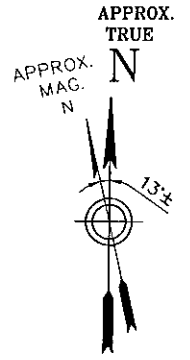
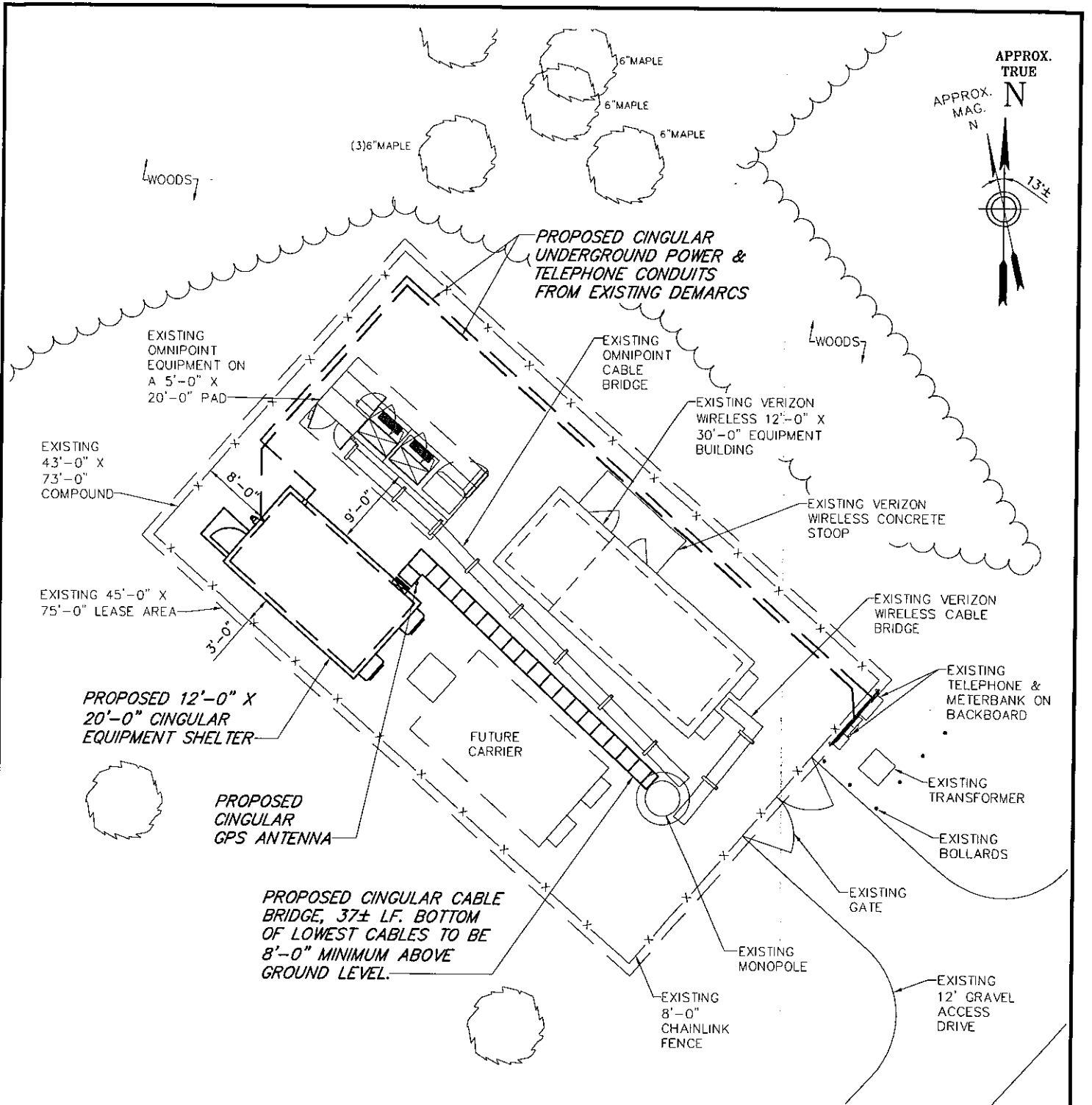
# Deerfield Lane Tower, Ansonia



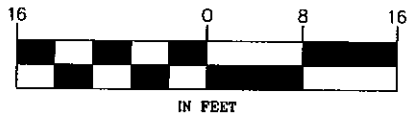
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 Wed Apr 23 10:58 2008  
 Scale 1:62,500 (at center)  
 1 Miles  
 2 km

- |                           |                    |
|---------------------------|--------------------|
| Local Road                | Point of Interest  |
| Major Connector           | Small Town         |
| State Route               | Summit             |
| Trail                     | Geographic Feature |
| Interstate/Limited Access | Park/Reservation   |
| US Highway                | Locale             |
| Exit                      | Cemetery           |
| Railroad                  | County Boundary    |

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**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

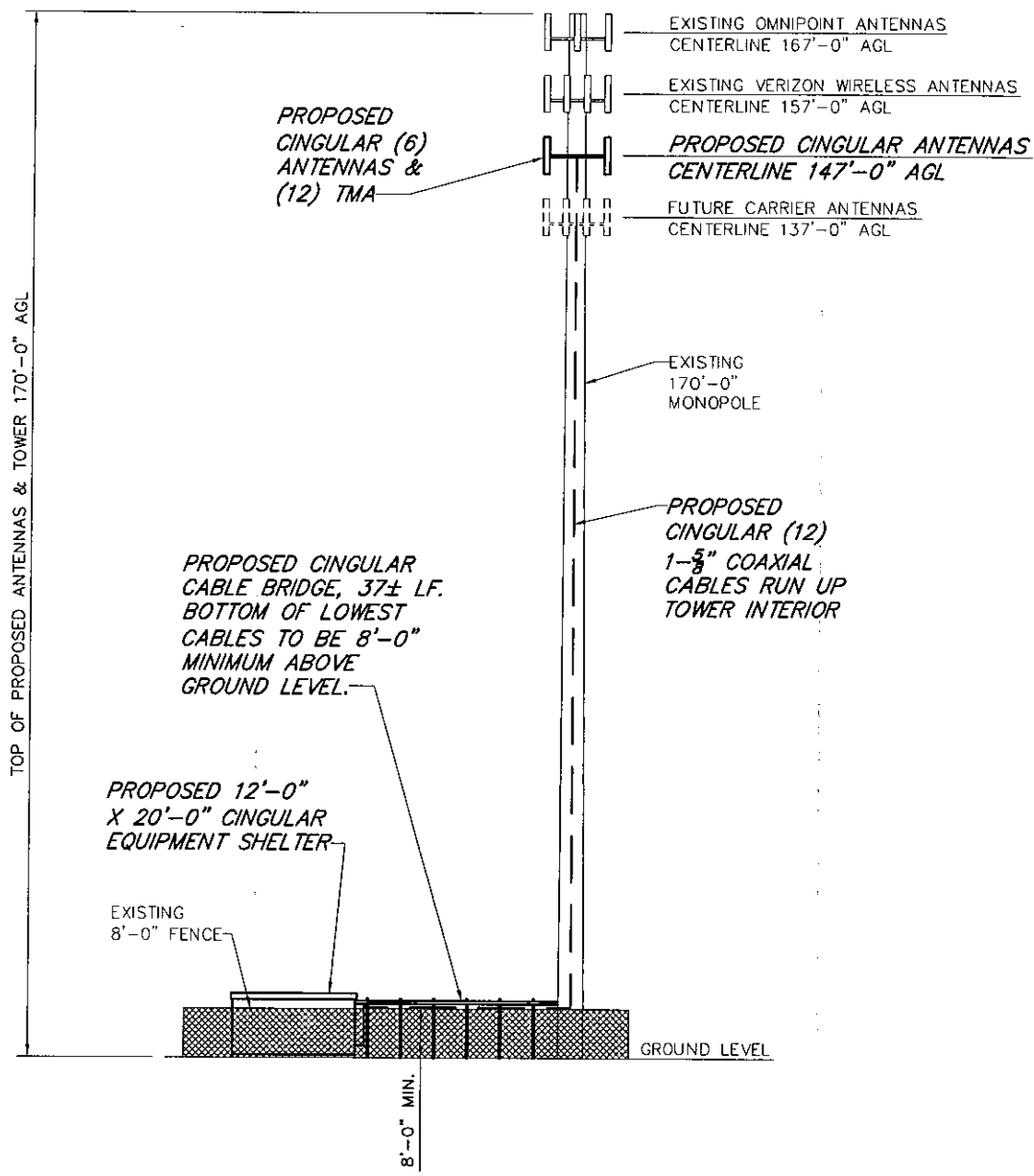
**CHA**  
CLOUGH HARBOUR & ASSOCIATES LLP  
2139 Stas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2336  
Main: (860) 257-4557 • www.cloughharbour.com

at&t  
Your world. Delivered.

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

SR1213  
OPTASITE ANSONIA  
1 DEERFIELD LANE  
ANSONIA, CT 06401  
CHA PROJ. NO. - 18301-1003


1 OF 2
REV 1
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.

**CHA**  
CLOUGH HARBOUR & ASSOCIATES LLP  
2133 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2338  
Tel: (860) 257-4557 - www.cloughharbour.com

 **at&t**  
Your world. Delivered.  
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WIRELESS  
NEW CINGULAR WIRELESS PCS, LLC  
500 ENTERPRISE DRIVE, ROCKY HILL, CT 06067

SR1213  
OPTASITE ANSONIA  
1 DEERFIELD LANE  
ANSONIA, CT 06401  
CHA PROJ. NO. - 18301-1003

2 OF 2  
REV 1  
**LE-2**



CLOUGH HARBOUR & ASSOCIATES LLP

April 9, 2008

Mr. Steve Levine  
Real Estate Consultant  
AT&T Mobility / New Cingular Wireless PCS, LLC  
500 Enterprise Drive, 3<sup>rd</sup> Floor  
Rocky Hill, CT 06067

**RE: Structural Review – SR1213 – Optasite Ansonia  
Located in Ansonia, New Haven County, CT  
CHA File No.: 18301-1003-1203, 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 April 3, 2008.
- Design drawings by Sabre, Job No. 08-01016, dated January 30, 2008.

The existing antenna loading consists of:

Omnipoint

- Nine (9) panel antennas mounted on T-arms at a centerline elevation of 167'-0" AGL with twelve (12) internally mounted 1-5/8" coaxial cables.

Verizon

- Twelve (12) panel antennas mounted on T-arms at a centerline elevation of 157'-0" AGL with twelve (12) internally mounted 1-5/8" coaxial cables.

Future Carrier

- Twelve (12) panel antennas mounted on T-arms at a centerline elevation of 137'-0" AGL with (12) internally mounted 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 147' 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 147' 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:

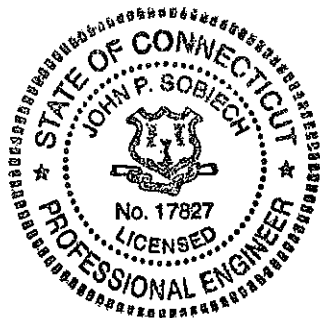
- Twelve (12) APX16PV-16PVL panel antennas mounted on 12' T-arm 3' stand-offs at a centerline elevation of 169'-0" AGL with twelve (12) interior mounted 1-5/8 coaxial cables.
- Twelve (12) LPA-185063/8CF panel antennas mounted on 12' T-arm 3' standoffs at a centerline elevation of 159'-0" AGL with twelve (12) interior mounted 1-5/8 coaxial cables.
- Twelve (12) APX16PV-16PVL panel antennas mounted on 12' T-arm 3' stand-offs at a centerline elevation of 139'-0" AGL with twelve (12) interior mounted 1-5/8 coaxial cables.
- Twelve (12) APX16PV-16PVL panel antennas mounted on 12' T-arm 3' stand-offs at a centerline elevation of 129'-0" AGL with twelve (12) interior mounted 1-5/8 coaxial cables.
- Twelve (12) APX16PV-16PVL panel antennas mounted on 12' T-arm 3' stand-offs at a centerline elevation of 119'-0" AGL with twelve (12) interior mounted 1-5/8 coaxial cables.
- Twelve (12) APX16PV-16PVL panel antennas mounted on 12' T-arm 3' stand-offs at a centerline elevation of 109'-0" AGL with twelve (12) interior mounted 1-5/8 coaxial cables.

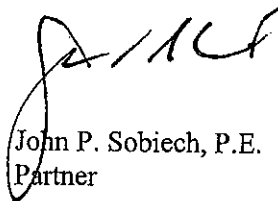
It is our opinion that the existing structure is capable of supporting the proposed loads. This opinion is based on the method of installation, and the existing structural conditions identified at the time of our review.

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 24, 2008

**Re: Request by New Cingular Wireless PCS, LLC for an Order Approving Shared Use of an Approved Optasite Communications Tower Located at 1 Deerfield Lane, Ansonia, Connecticut.**

Honorable James T. Della Volpe  
Mayor, City of Ansonia  
City Hall 253 Main Street  
Ansonia, CT 06401

Dear Mayor Della Volpe:

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 1 Deerfield Lane in Ansonia.

The facility is owned and operated by Optasite, Inc., One Research Drive, Suite 200C, Westborough, MA 01581, under a lease with property owner Macabee Properties, LLC.

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