

TS-VER-056-080201

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ORIGINAL

February 1, 2008

Via Hand Delivery

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
FEB 1 - 2008
CONNECTICUT
SITING COUNCIL

Re: **Request of Cellco Partnership d/b/a Verizon Wireless for an Order to Approve the Shared Use of an Existing Tower Facility at 150 Lost Acres Road, Granby, Connecticut**

Dear Mr. Phelps:

Pursuant to Connecticut General Statutes §16-50aa, as amended, Cellco Partnership d/b/a Verizon Wireless ("Cellco") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use of an existing lattice telecommunications tower, owned by Mariner Towers ("Mariner"), located at 150 Lost Acres Road in Granby, Connecticut. Cellco requests that the Council find that its proposed shared use of the Mariner tower satisfies the criteria stated in Connecticut General Statutes § 16-50aa and issue an order approving the proposed use. In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to William F. Smith, Jr., Town Manager of the Town of Granby. Pursuant to a Council directive, a copy of the letter is also being sent to John G. Lombardi and Deborah Lindsey, owners of the tower and the property on which the tower is located.



Law Offices

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Background

The Mariner tower is a 160-foot self supporting lattice tower approved by the Town of Granby. Cellco is licensed by the Federal Communications Commission (FCC) to provide wireless telecommunications services in the State of Connecticut, which includes the area to be served by Cellco's proposed Granby installation. Cellco and the owners have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and the owners have authorized Cellco to

HART1-1443112-1

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act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

As depicted on Project Plans included behind Tab 1, Cellco proposes to install six (6) LPA-80080/6CF antennas and six (6) LPA-185080/12CF antennas at the 160-foot level on the Mariner tower and place a 12' x 30' equipment shelter within the fenced compound near the base of the tower. An emergency back-up generator will be installed within Cellco's equipment shelter for use when commercial power to the facility is interrupted.

C.G.S. § 16-50aa(c)(1) 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." The shared use of the tower satisfies those criteria as follows:

A. Technical Feasibility. The existing tower is structurally capable of supporting the proposed Cellco antennas and associated equipment. The proposed shared use of this tower therefore is technically feasible. Tab 2 contains the URS Corporation Structural Review and evaluation letter dated January 17, 2008.

B. Legal Feasibility. Under C.G.S. § 16-50aa, the Council has been authorized to issue orders approving the proposed shared use of an existing tower facility such as the Mariner facility in Granby. This authority compliments 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. In addition, § 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 requests for the shared use of existing towers facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.

C. Environmental Feasibility. The proposed shared use would have a minimal environmental effect, for the following reasons:

1. The proposed installations would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics of the existing site. In particular, the proposed



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installations would not increase the height of the existing tower, and would not extend the boundaries of the tower site outside the limits of the existing property.

2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of Cellco antennas at this site would not exceed the total radio frequency (RF) electromagnetic radiation power density level adopted by the Federal Communications Commission. The "worst-case" exposure calculated for operation of Cellco's facility (i.e., calculated at the base of the tower), would be 6.38% of the standard). (See Power Density Calculation Table behind Tab 3).
4. The proposed installations, would not require any water or sanitary facilities, or generate air emissions or discharges to water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete the proposed installations would not generate any traffic other than periodic maintenance visits.

The proposed use of this facility would therefore have a minimal environmental effect, and is environmentally feasible.

E. Economic Feasibility. As previously mentioned, the property owners and Cellco have entered into a mutual agreement to share the use of the replacement tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

F. Public Safety Concerns. As stated above, the tower is structurally capable of supporting the Cellco antennas. Cellco is not aware of any public safety concerns relative to the proposed sharing of the existing tower. In fact, the provision of new or improved telecommunications service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.



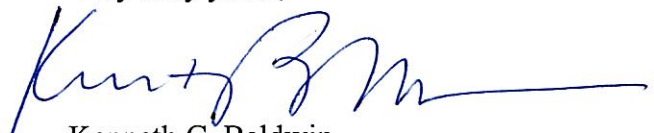
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Conclusion

For the reasons discussed above, the proposed shared use of the existing tower in Granby, Connecticut satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers in Connecticut. The Applicant therefore requests that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,



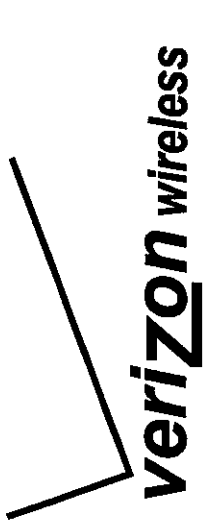
Kenneth C. Baldwin

Enclosures

Copy to:

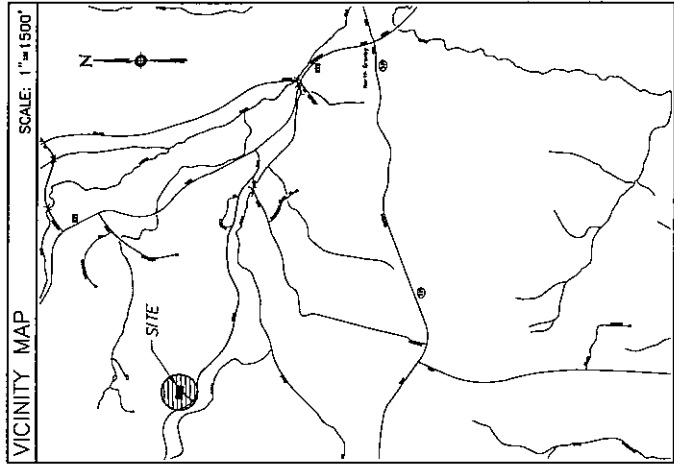
William F. Smith, Jr., Granby Town Manager
John G. Lombardi and Deborah Lindsey
Sandy M. Carter
Michelle Kababik





NORTH GRANBY

150 LOST ACRES ROAD
GRANBY, CONNECTICUT 06070



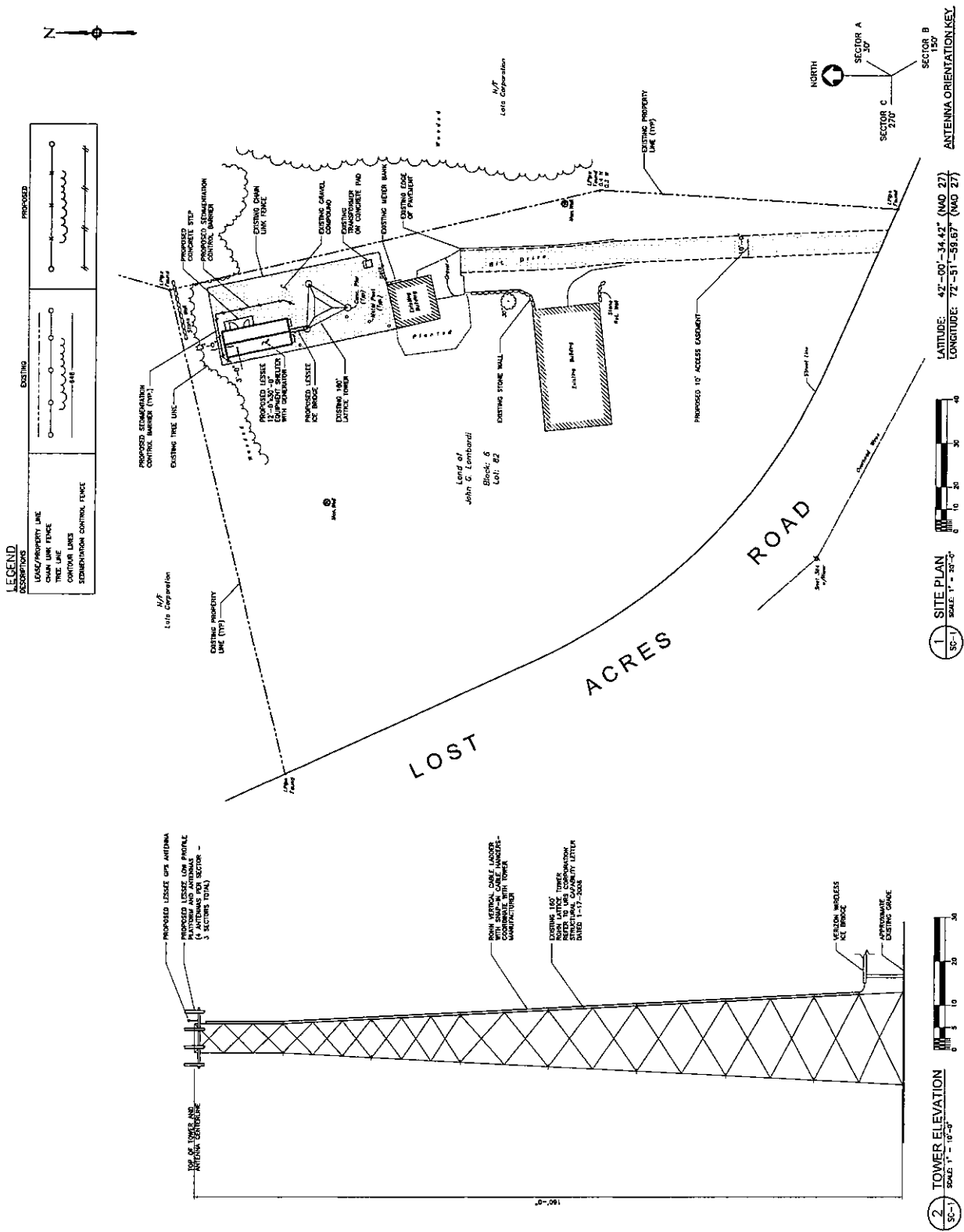
PROJECT SUMMARY	
SITE NAME:	NORTH GRANBY
SITE ADDRESS:	150 LOST ACRES ROAD GRANBY, CONNECTICUT 06070
CONTACT PERSON:	CELLCO PARTNERSHIP DBA VERIZON WIRELESS SANDY CARTER (860) 382-7619
PROPERTY OWNER:	JOHN G. LOMBARDI 150 LOST ACRES ROAD GRANBY, CONNECTICUT 06070
LATITUDE:	42°-00'-33.43"
LONGITUDE:	-72°-51'-48.87"
GROUND ELEVATION:	63'
NEAREST PAVED RD.	WAY C-10 BLOCK 6 LOT B2
JURISDICTION:	CONNECTICUT STATE COUNCIL
APPROX. DATE:	APPROXIMATE DATE 150 ENTERPRISE DRIVE SUITE 3B ROCKY HILL, CT 06067
W/P/D ENGINEER:	URS CORPORATION A/E/S 150 ENTERPRISE DRIVE SUITE 3B ROCKY HILL, CT 06067
SURVEYOR:	URS CORPORATION A/E/S 150 ENTERPRISE DRIVE SUITE 3B ROCKY HILL, CT 06067

LEGEND	
SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER
	SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER
	SHEET WHERE ELEVATION OCCURS

ABBREVIATIONS	
UN	UNKNOWN
V.I.F.	VERIFY IN FIELD
D.C.	ON CENTER
P	POUND/SQUARE FOOT
TYPE	TYPE
FT.	FOOT
SQ.FT.	SQUARE FEET
N/A	NOT APPLICABLE

SHEET INDEX	
SHEET NO.	DESCRIPTION
1-1	TITLE SHEET - GENERAL NOTES AND LEGENDS
2-1	SITE PLAN, TOWER ELEVATION AND LEGEND

CELLCO PARTNERSHIP DBA VERIZON wireless	URS CORPORATION 150 ENTERPRISE DRIVE SUITE 3B ROCKY HILL, CONNECTICUT 06067 1-860-529-8442	PROJECT NO.: 36931066	JOB NO.: VZ1-241	DRAWN BY: MAP	CHECKED BY:	ISSUED FOR: 10-24-07 REVIEW 01-15-08 FINAL DESIGN	THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY MANNER OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED.	NORTH GRANBY 150 LOST ACRES ROAD GRANBY, CONNECTICUT 06070	SCALE: AS NOTED	TITLE SHEET GENERAL NOTES AND LEGENDS	T-1
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January 17, 2008

Alexandria Carter
Verizon Wireless
99 East River Drive
East Hartford, CT 06118

Reference: **Proposed Telecommunications Facility**
 Site Name: North Granby
 150 Lost Acres Road
 Granby, CT 06070
 VZ1-241 / 36931066.00000

Dear Ms. Carter:

URS Corporation (URS) was retained by Verizon Wireless to conduct a structural review and evaluation of the construction design documents of an existing 160' self supporting lattice tower. The structure is located at 150 Lost Acres Road in Granby, Connecticut. The tower structure and foundation were designed by Rohn Industries Inc., file number 37696MP, signed and sealed on 8/3/1998 by David G. Brinker, Connecticut P.E. number 14002.

The tower structure was originally designed to support (3) telecommunication carriers at elevations 160', 145', 135'.

The following inventory was used by URS to determine the structural feasibility of the tower structure:

Antenna and Mount	Carrier	Antenna Center Elevation
(6) Antel LPA-80080/6CF (6) Antel LPA-185080/12CF_2 on (3) 15' T-Arms	Verizon Wireless (proposed)	160'

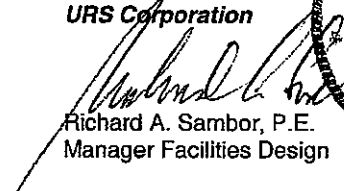
It is our determination that the total loading on the tower structure and foundation, based on the above inventory is below the maximum capacity permitted by the Rohn Industries, Inc. documents. Therefore, the existing tower and its foundation have satisfactory structural capacity to support the proposed Verizon Wireless antennas as specified above.

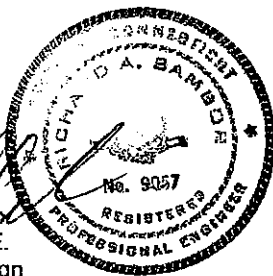
The above evaluation is based on the requirements of TIA-EIA-222F and the 2005 Connecticut State Building Code, latest supplements and amendments.

If you should have any questions, please call.

Sincerely,

URS Corporation


Richard A. Sambor, P.E.
Manager Facilities Design



RAS/ddm
cc: A.A., CF/Book - URS

URS Corporation
500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.8882
Fax: 860.529.3991

General Power Density

Site Name: North Granby, CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW	1970	3	485	1455	160	0.0204	1.0	2.04%
VZW	875	9	200	1800	160	0.0253	0.583	4.34%

Total Percentage of Maximum Permissible Exposure

6.38%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.