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Manager Real Estate Operations

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NEXTEL[®]

July 30, 1999

RECEIVED

AUG - 4 1999

CONNECTICUT
SITING COUNCIL

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

Dear Mr. Gelston:

Pursuant to Connecticut General Statutes (C.G.S.) § 16-50-aa, Nextel Communications respectfully requests to make shared use of an existing communications tower located on Acorn Road in Branford, Connecticut. This facility, which is owned by Sprint PCS, is currently used by Sprint to provide wireless system coverage to Southeastern Branford. Nextel proposes to add directional antennas to the 150-foot tall monopole and install radio equipment inside a building being constructed adjacent to the tower.

Nextel proposes to share use of this facility, rather than have the need to construct an additional telecommunications tower in the general area.

Nextel respectfully asks that the Council find the proposed shared use of the facility satisfies the criteria stated in C.G.S. § 16-50-aa and issue an order approving the shared use of this facility.

Sincerely,

Ronald C. Clark
Manager Real Estate Operations

CC: Honorable Anthony J. DaRos, First Selectman
Town of Branford
Mr. Ellsworth McGuigan, Chairman
Branford Planning & Zoning Commission
Mr. Kenneth Mac Master
Sprint PCS

TOWER SHARING

ACORN ROAD
BRANFORD, CONNECTICUT

BACKGROUND

Nextel Communications, Inc. is licensed by the Federal Communications Commission (FCC) to provide wireless communications service in the State of Connecticut, including the Town of Branford.

Nextel proposes to mount its antennas on an existing 150-foot monopole owned by Sprint PCS and place radio equipment inside a new building being constructed next to the monopole. The facility is located on Acorn Road (just South of Interstate 95 at Exit 56) in Branford. The site is currently used by Sprint to provide wireless system coverage to the Southeast section of Branford. It is expected that SNET will be filing with the Council shortly to seek approval to share use of the facility.

NEXTEL INSTALLATION

Nextel proposes to install twelve- (12) model ALP 9212 directional antennas center mounted at the 120-foot level and two (2) GPS receive-only antennas at the 70-foot level of the 150-foot monopole (see Attachment A). Nextel also proposes to install its radio equipment inside a new multi-purpose building that is currently being constructed by the property owner (see Attachment B). The new building is scheduled to be completed during late October. In the interim, Nextel intends to park a Cell Site on Wheels ("COW") at the site to provide system coverage to the area (see Attachment C). The COW will operate on commercial electrical power and be removed from the site once the permanent equipment installation has been completed.

POWER DENSITY CALCULATIONS

The operation of the additional antennas will not increase the total radio frequency electromagnetic power density, measured at the base of the tower, to a level at (or even near) the State/Federal/ANSI Standards. "Worst case" calculations for a point at the tower base show the combined power density level for the Sprint and Nextel Antennas totals just 5.5172% of the State/Federal/ANSI Standards for exposure in an uncontrolled environment (see Attachment D).

OTHER RELEVANT INFORMATION

C.G.S. § 16-50-aa 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. § 16-50-aa(c)(1).)

The shared use of the tower satisfies the criteria stated in C.G.S. § 16-50-aa as follows:

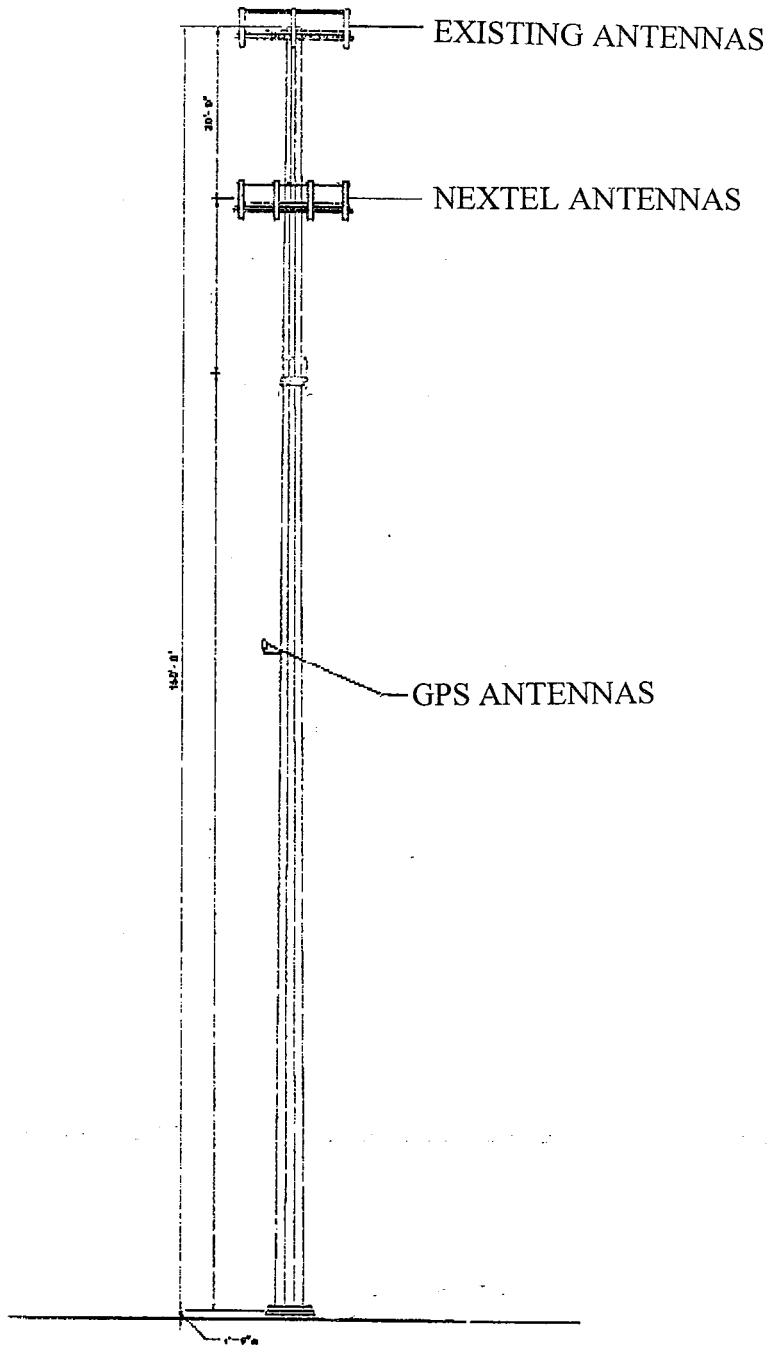
- **Technical Feasibility.** The monopole, which was designed, engineered and constructed as a multi-carrier structure, is fully capable of supporting the Nextel’s antennas and associated tower mounted hardware. The proposed-shared use of this tower therefore is technically feasible.
- **Legal Feasibility.** Under C.G.S. § 16-50-aa, the Council has been authorized to issue an order approving the proposed-shared use of an existing tower facility. (C.G.S. § 16-50-aa(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” on ruling of requests for the shared use of existing tower facilities. Under the authority vested in the Council by C.G.S. § 16-50-aa, an order by the Council approving the shared use would permit the applicant to obtain a building permit for the proposed installations.
- **Environmental Feasibility.** The proposed shared use of this telecommunications facility would have a minimal environmental effect for the following reasons:
 - A. 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 in or around the area.
 - B. The proposed installation would not increase the noise levels at the existing facility by six decibels or more.
 - C. Operations of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density levels adopted by the State of Connecticut and the Federal Communications Commission (FCC). The “worst-case” exposure levels have been calculated for ground level at the tower base. The combined power density level for the Sprint and the proposed Nextel Antennas is only 5.5172% of the State/Federal/ANSI Standards for exposure in an uncontrolled environment. As such, the facility would be operated in full and complete compliance with the relevant sections Federal Telecommunications Act of 1996.
 - D. The installation would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is completed, the installation would not generate any vehicular traffic other than from periodic maintenance visits by a service technician. The proposed shared use of the facility

would therefore, have a minimal environmental effect and is indeed, environmentally feasible.

- **Economic Feasibility.** Nextel has entered into an agreement with Sprint PCS and the property owner to share use of the tower and the new multi-purpose building. The proposed tower sharing use is therefore economically feasible.
- **Public Safety Concerns.** As stated previously, the tower is structurally capable of supporting the proposed antennas and radio frequency emissions fall well below State and Federal Standards. The Applicant is not aware of any other public safety issue(s) relative to the shared use of this facility. In fact, the provision of additional wireless coverage is expected to enhance the safety, security and welfare of local residents as well as those traveling through the area. The simple fact that *more than one-half million* wireless 911 calls were made in Connecticut during 1998, clearly demonstrates the positive impact wireless communications has had on public safety in the State. The benefits of wireless service are further illustrated by the decision of many law enforcement agencies here in Connecticut, and in other parts of the country, to provide mobile phones to local resident groups, civic organizations, etc., to improve, expand and enhance emergency communications capabilities. The proposed-shared use of this facility can likewise contribute to the public's safety and security in the Town of Branford.

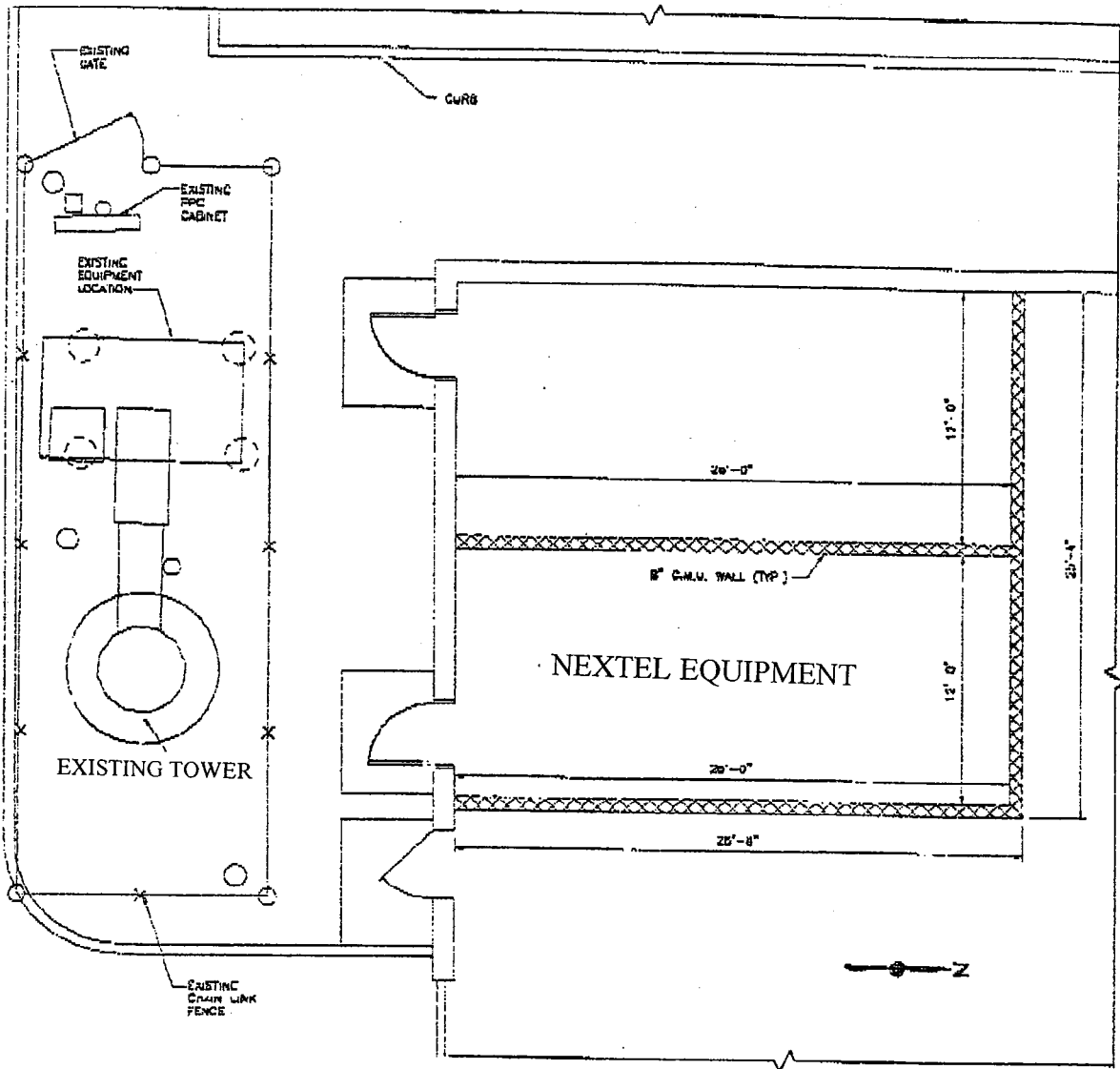
CONCLUSION

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

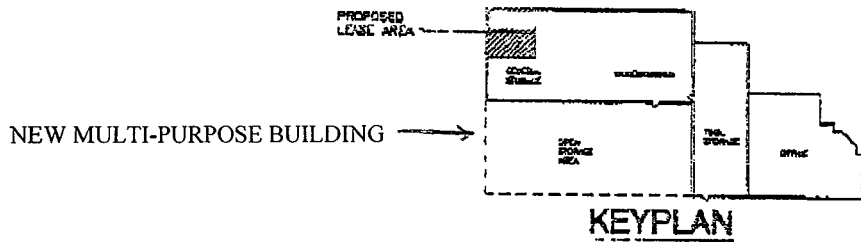


1 TOWER ELEVATION
L-1 SCALE: NTS

SITE ID NO. DESIGNED BY DRAWN BY: JCB CHECKED BY APPROVED BY	URS Greiner Woodward Clyde A-58 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT (860)-620-8882	<div style="text-align: center;">NEXTEL</div> SITE ADDRESS: SECONDINO & SON, INC. ACORN ROAD BRANFORD, CONNECTICUT	<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> Scale: AS NOTED Date: 07-15-99 Job No: 301731.11 File No:	REV.	DATE	DESCRIPTION							Dep. No. <div style="text-align: center; font-size: 2em;">L-1</div> Page: 2 of 2
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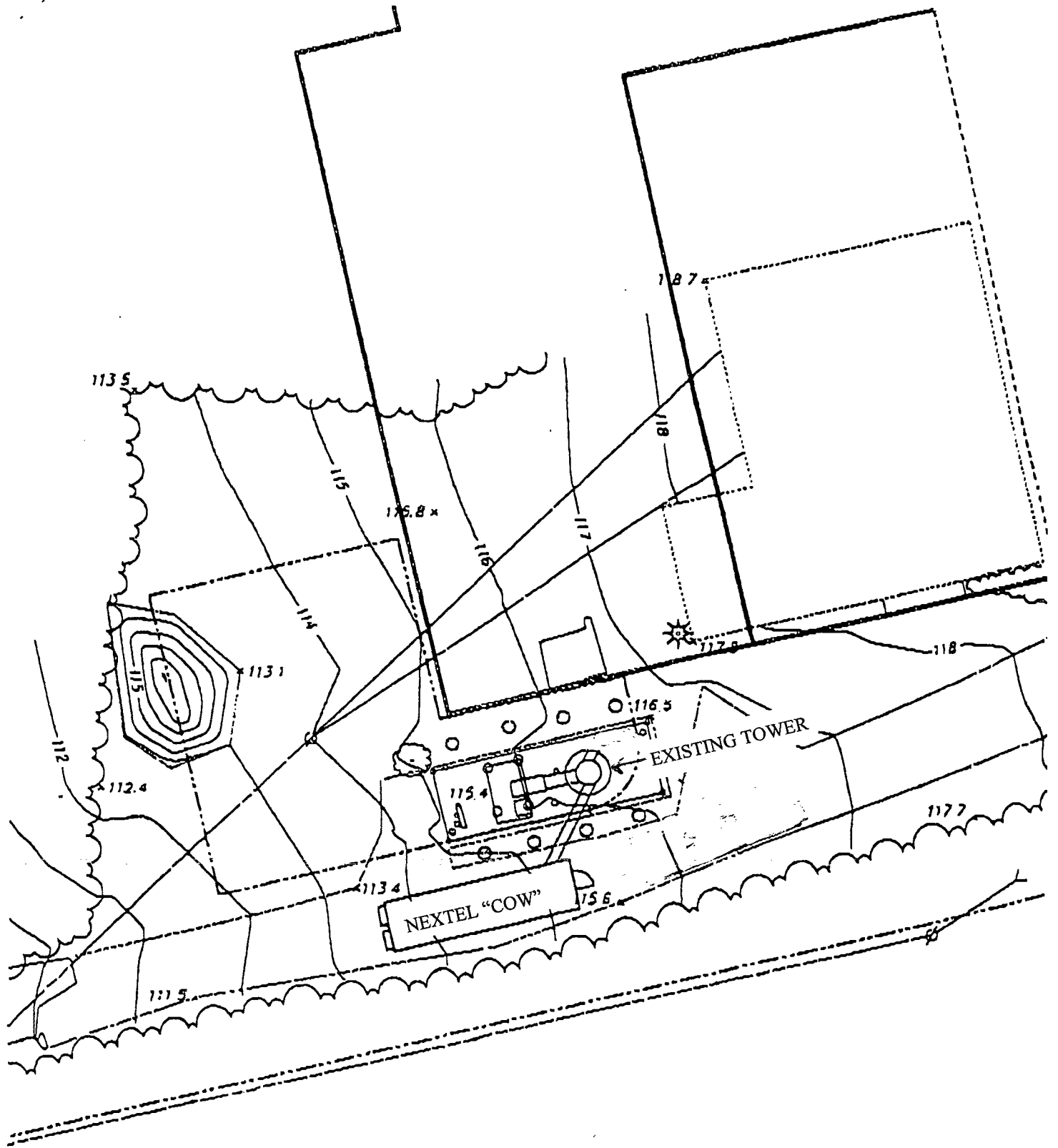


1 PARTIAL FLOOR PLAN
SCALE 1/8" = 1'-0"



KEYPLAN

<p>DATE: 07-15-99</p> <p>DESIGNED BY: URS Greiner Woodward Clyde</p> <p>DRAWN BY: JCB</p> <p>CHECKED BY:</p> <p>APPROVED BY:</p>	<p>SCD ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT 1-800-429-9882</p>	<p>NEXTEL</p> <p>SITE ADDRESS: SECONDINO & SON, INC. ACORN ROAD BRANFORD, CONNECTICUT</p>	<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> <p>Scale: AS NOTED Date: 07-15-99</p> <p>Job No: F3017J1 11 Rev. No.:</p>	REV.	DATE	DESCRIPTION				<p>Draw. No. L-1</p> <p>Page 1 of 2</p>
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ATTACHMENT C

