



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

10 Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

September 28, 1998

Peter J. Tyrrell
Senior Counsel
Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **TS-SCLP-115-980911** - Springwich Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located on Kluge Road in Prospect, Connecticut.

Dear Attorney Tyrrell:

At a public meeting held September 24, 1998, the Connecticut Siting Council (Council) ruled that the shared use of this existing 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 been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. 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 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.

The proposed shared use is to be implemented as specified in your letter dated September 9, 1998. Please notify the Council when all work is complete.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Mortimer A. Gelston".

Mortimer A. Gelston
Chairman

MAG/RKE/sg

c: Honorable Robert J. Chatfield, Town of Prospect

Springwich Cellular Limited Partnership

500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7755
Fax: (860) 513-7614

September 9, 1998

Peter J. Tyrrell
General Counsel

RECEIVED

SEP 11 1998

CONNECTICUT
SITING COUNCIL

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

**Re: Springwich Cellular Limited Partnership - Prospect Cellular
Communication Site**

Dear Chairman Gelston:

Springwich Cellular Limited Partnership (SCLP) plans to install cellular antennas and a related equipment building at the tower facility owned by SBA Towers, Inc., of Boca Raton, Florida. Please accept this letter as a request to share the existing tower pursuant to C.G.S. Section 16-50aa. A copy of this letter is being sent to the Mayor of the Town of Prospect.

The tower proposed for use by SCLP will also be used by Smart SMR of New York, Inc. ("Nextel") as a communications facility. The tower is located on Kluge Road in the Town of Prospect and is a 160 foot monopole tower. SCLP plans to install up to twelve, four foot tall panel-type cellular antennas on the tower between the 156' and 160' levels, as shown on the attached tower profile. SCLP will also install a single story, approximately 12' x 26' equipment building which will contain radio transmission equipment (See attached Site Plan). SCLP has negotiated an agreement with the tower owner to use the tower and install radio equipment at the site.

Power Density Calculations

The operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to a level at or above the ANSI standard. The following table summarizes the power densities at the site from the various sources on the tower (including SCLP's proposed use) in relation to the standard.

FREQUENCY	POWER DENSITY	HEIGHT	STANDARD LIMITS (mW/cm ²)	% OF STANDARD
SCLP 880 MHz	0.0302	157'	0.5867	5.15
Nextel 851 MHz	0.0353	142'	0.5673	6.22
TOTAL	N/A		N/A	11.37%

As the table demonstrates, SCLP's proposed antennas would contribute 5.15% of the ANSI standard for the cellular frequency range, bringing the site total to 11.37% of the standard as calculated for a mixed frequency site.

Statutory Considerations. 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 satisfied the criteria stated in C.G.S. §16-50aa as follows:

- A. **Technical Feasibility.** The existing tower was constructed in July, 1998, and is structurally sound and capable of supporting the proposed antennas. The proposed shared use of this tower therefore is 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 an existing tower facility. (C.G.S. §16-50aa(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. §16-50aa, order by the Council approving the 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 installation of SCLP's antennas 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 tower site. In particular, the proposed installation would not increase the height of the existing tower, and would not extend the boundaries of the tower site.
 2. The proposed installation would not increase the noise levels at the existing

facility by six decibels or more.

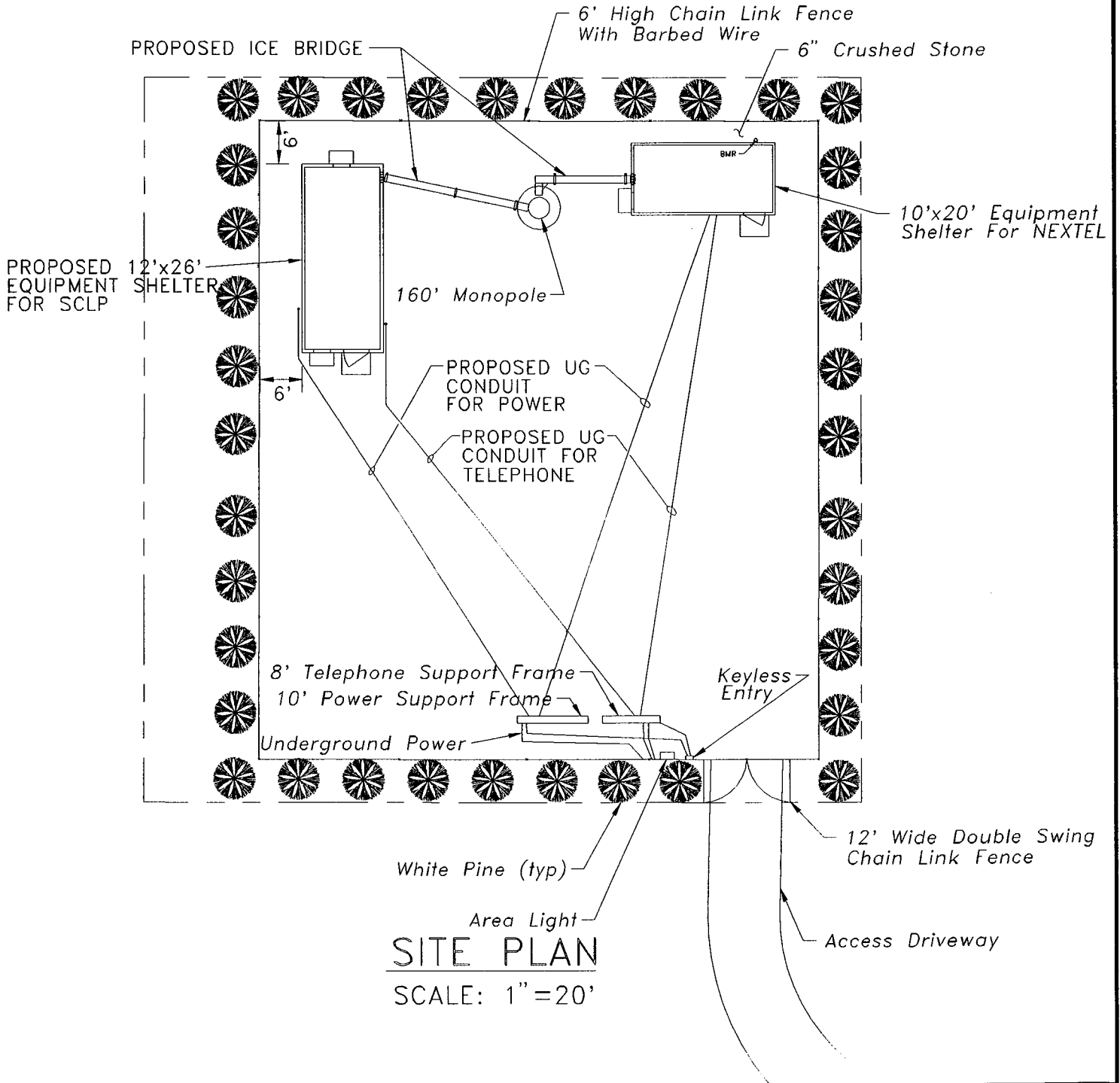
3. Operations of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density levels adopted by the State of Connecticut and the FCC as shown above. The "worst-case" exposure levels have also been calculated for ground level, which is an uncontrolled environment since it is generally accessible. The combined power density levels for all users at ground level is only 11.37% of both the ANSI and FCC standards for an uncontrolled environment. As such, the facility would be operated in full and complete compliance with the Federal Telecommunications Act of 1996.
 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 four weeks), the proposed installation would not generate any traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.
- A. **Economic Feasibility**. As previously stated, SCLP had entered into an agreement with the property owner to share use of the existing tower on mutually agreed to terms. The proposed tower sharing is therefore economically feasible.
- B. **Public Safety Concerns**. As stated above, the existing tower is structurally capable of supporting the proposed antennas. The Applicant is not aware of any other public safety issues relative to the proposed sharing of the existing tower. In fact, the provision of new or improved wireless coverage in the Prospect area is expected to enhance the safety and welfare of area residents. The public safety benefits of wireless service are further illustrated by the recent decision of local authorities elsewhere in Connecticut and in other parts of the country to provide mobile phones to residents to improve local public safety and enhance emergency communications. The proposed shared use of this facility would likewise improve public safety in the Town of Prospect.

For the foregoing reasons, SCLP respectfully requests that the Council find the proposed shared use of this facility satisfies the criteria stated in C.G.S. Section 16-50aa and issue an order approving this proposed use.

Sincerely,

A handwritten signature in blue ink that reads "Peter J. Tynell". The signature is written in a cursive style with a large initial "P".

RAD. CENTER: _____ FT. (AGL)



SNET MOBILITY
PRELIMINARY
DESIGN EXHIBIT



SITE NAME: SBA TOWER

SNET #:

ADDRESS: 178 NEW HAVEN ROAD
PROSPECT, CT 06712

MGI #: 14777

TASK #: 2042

DATE: 9/9/98

DRAWN: JCH | CHECKED: GMP | SCALE: 1" = 20'

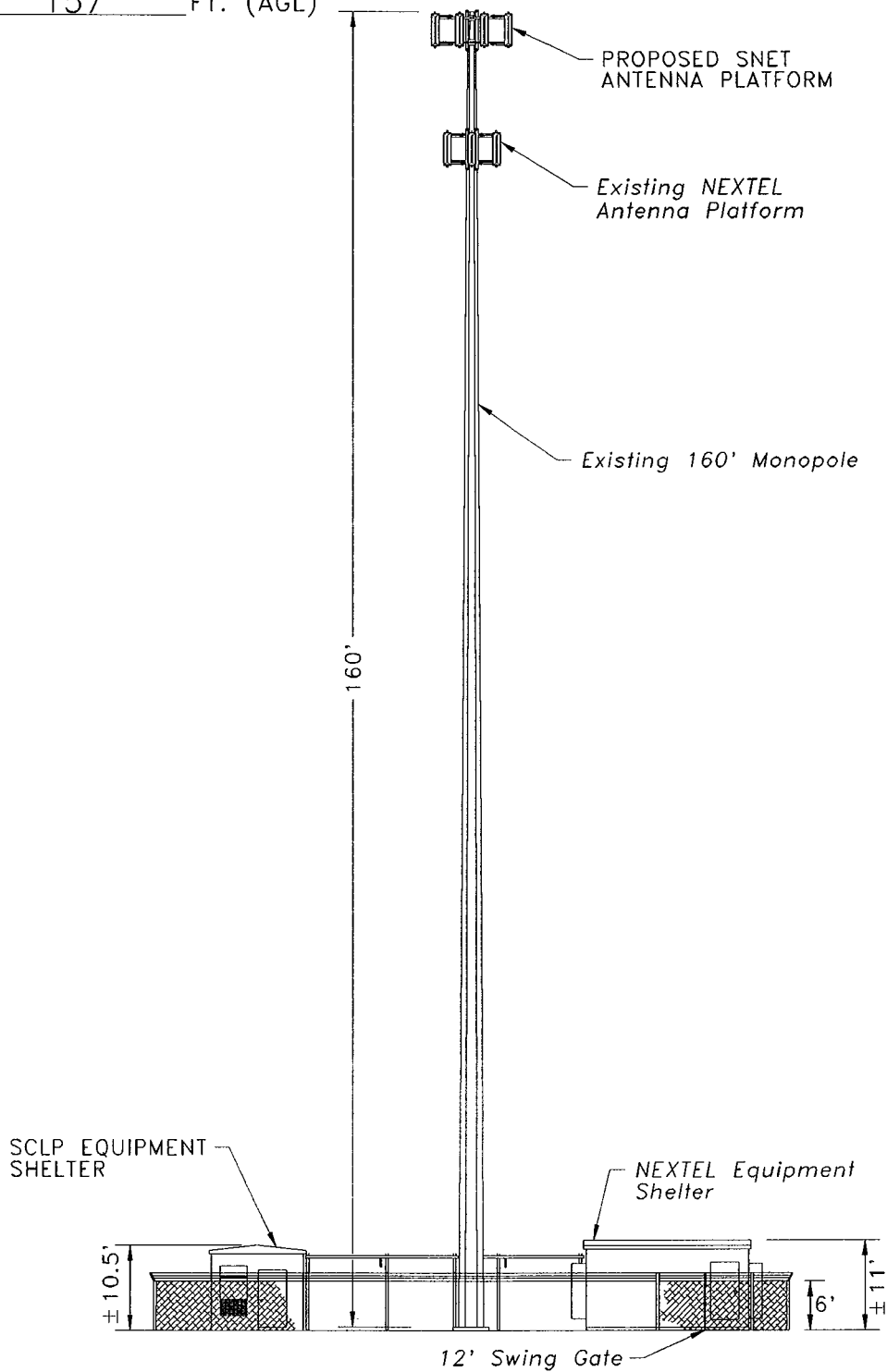


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RAD. CENTER: 157 FT. (AGL)



ELEVATION VIEW

N.T.S.

SNET MOBILITY PRELIMINARY DESIGN EXHIBIT	NORTH	SITE NAME: SBA TOWER		SNET #:
		ADDRESS: 178 NEW HAVEN ROAD PROSPECT, CT 06712		MGI #: 14777
		DRAWN: JCH CHECKED: GMP SCALE: N.T.S.		TASK #: 2042
				DATE: 9/9/98
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