



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

May 10, 2002

Kenneth C. Baldwin
Robinson & Cole
280 Trumbull Street
Hartford, CT 06103-3597

RE: **TS-VER-030-020425** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 330 Middletown Road, Columbia, Connecticut.

Dear Attorney Baldwin:

At a public meeting held May 7, 2002, 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 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 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 April 25, 2002.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/DM/laf

- c: Honorable Adella G. Urban, First Selectman, Town of Columbia
Carl S. Fontneau, Town Planner, Town of Columbia
Thomas F. Flynn III, Nextel Communications, Inc.
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC

280 Trumbull Street
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Fax (860) 275-8299
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April 25, 2002

Via Hand Delivery

RECEIVED
APR 25 2002
CONNECTICUT
SITING COUNCIL

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

Re: **Request of Cellco Partnership d/b/a Verizon Wireless for an Order to Approve the Shared Use of a Tower Facility at 330 Middletown Road, Columbia, Connecticut**

Dear Mr. Gelston:

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 by Cellco of an existing Nextel Communications (“Nextel”) tower located at 330 Middletown Road, Columbia, Connecticut. Cellco requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in Connecticut General Statutes § 16-50aa and issue an order approving the proposed use.

Background

The Nextel tower at 330 Middletown Road was constructed pursuant to approvals from the Town of Columbia. The tower is a 120-foot self-supporting monopole structure within an approximately 50’ x 70’ fenced compound. The tower is currently owned and operated by Nextel.

Cellco is licensed by the Federal Communications Commission (FCC) to provide cellular wireless telephone service in the State of Connecticut, which includes the area to be served by Cellco’s proposed Columbia installation. Cellco and Nextel have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and Nextel has authorized Cellco to act on its behalf to apply for all necessary



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Mortimer A. Gelston
April 25, 2002
Page 2

local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of this facility.

Cellco proposes to install twelve (12) panel-type antennas at the 98-foot level on the tower. The radio transmission equipment associated with these antennas would be located in a new 12' x 30' equipment building located near the base of the tower.

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. The proposed shared use of this tower therefore is technically feasible. Attached is a statement verifying that the tower can support the proposed antennas.

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 facility at 330 Middletown Road in Columbia. 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. 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 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 site compound.



Mortimer A. Gelston

April 25, 2002

Page 3

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 this facility (i.e., calculated at the base of the tower), would be 0.0232 mW/cm^2 (4.06% of the standard) for Nextel antennas at the 118-foot level and 0.0413 mW/cm^2 (4.13% of the standard) for Sprint antennas at the 108-foot level. Cellco antennas at the 98-foot level would add 0.0711 mW/cm^2 (12.20% of the standard), for a total of 20.39% of the standard, as measured for mixed frequency sites.
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, Nextel 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 will be 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 phone service through shared use of the existing tower is expected to enhance the safety and welfare of area residents.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower at 330 Middletown Road in Columbia 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



ROBINSON & COLE^{LLP}

Mortimer A. Gelston

April 25, 2002

Page 4

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

KCB/kmd

Attachments

cc: Adella G. Urban, Columbia First Selectman
Carl Fontneau, Zoning Enforcement Officer
Sandy M. Carter





RE: CT-0064 [Columbia Central]
 Structural Evaluation of 120' Summit Monopole
 330 Middletown Road
 Columbia, CT 06237
 Tolland County

Date: April 16, 2002

SpectraSite Engineering has performed a *Level 1 evaluation*¹ for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of **85 mph** without ice and 75% of the wind load with 1/2" radial ice.

Table 1. Existing and Proposed Antennas


ELEVATION (Ft-AGL)	ANTENNA	CARRIER	COAX	NOTES
120	(12) Decibel DB844H90E-XY on Platform Mount	Nextel	(12) 1-1/4"	Existing
108	(12) Decibel DB980H90E-M on Platform Mount	Sprint	(12) 1-1/4"	Existing
98	(12) Decibel DB844H80 on Low Profile Platform Mount	Verizon	(12) 1-5/8"	Proposed

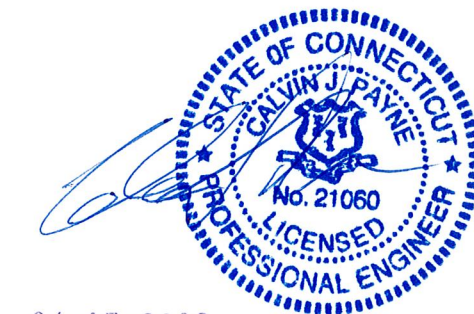
*Coax installed on inside of monopole.

The subject tower and foundation are *adequate* to support the above stated loads and *in conformance* with the requirements of TIA/EIA-222-F Standard.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

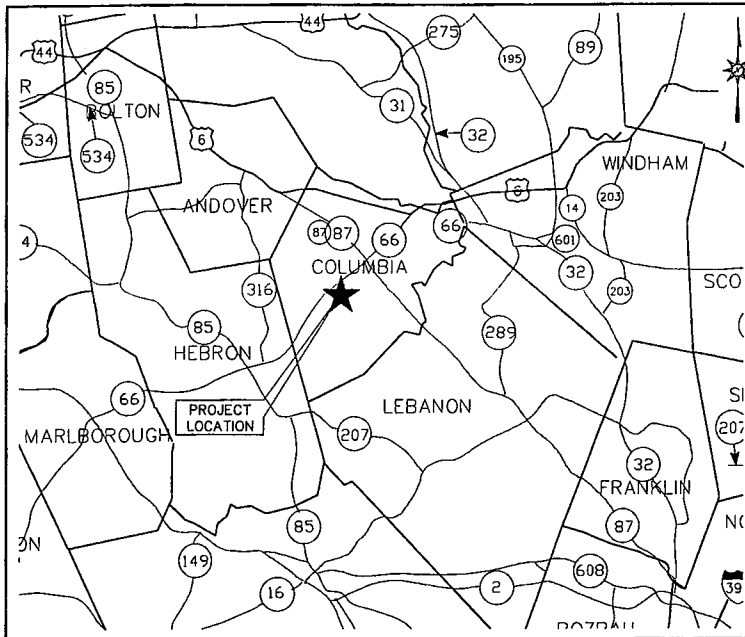
Should any questions arise concerning this report please contact the undersigned.


 Raphael Mohamed
 Project Engineer



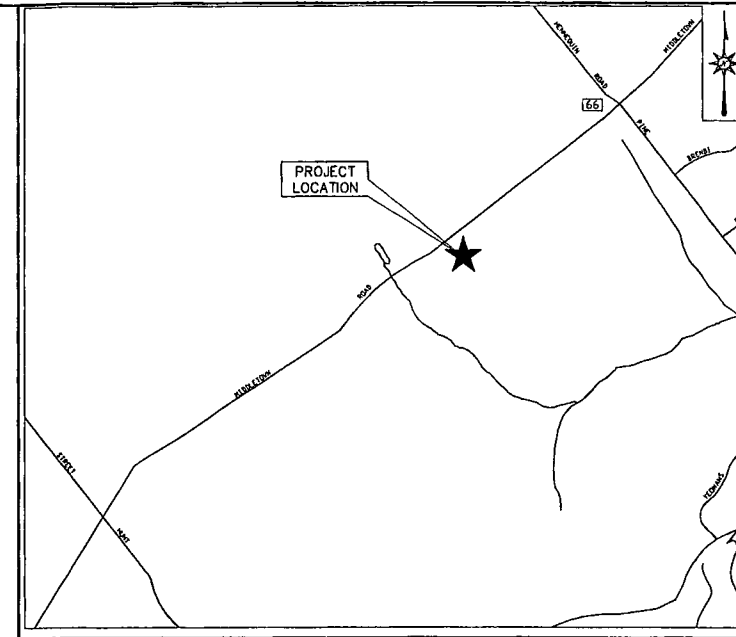
04-17-2002
 Calvin J. Payne, P.E.
 Chief Engineer

¹ *Level 1 evaluation* means:
 • the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
 • the design wind criteria is compared to the recent code requirements.



LOCATION MAP

SCALE: NONE



VICINITY MAP

SCALE: 1"=1000'

SITING COUNCIL SUBMISSION

COLUMBIA SOUTH TELECOMMUNICATION FACILITY

330 MIDDLETOWN ROAD
COLUMBIA, CONNECTICUT 06237

PREPARED FOR:
CELLCO PARTNERSHIP DBA
VERIZON WIRELESS
99 EAST RIVER DRIVE
9TH FLOOR
EAST HARTFORD, CONNECTICUT 06108

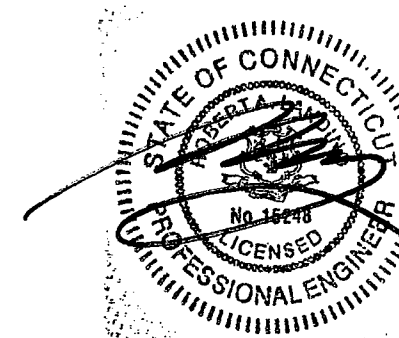
PREPARED BY:



Companies

ARCHITECTURE ENGINEERING PLANNING LANDSCAPE ARCHITECTURE
LAND SURVEYING ENVIRONMENTAL SCIENCES ANALYTICAL SERVICES

355 RESEARCH PARKWAY
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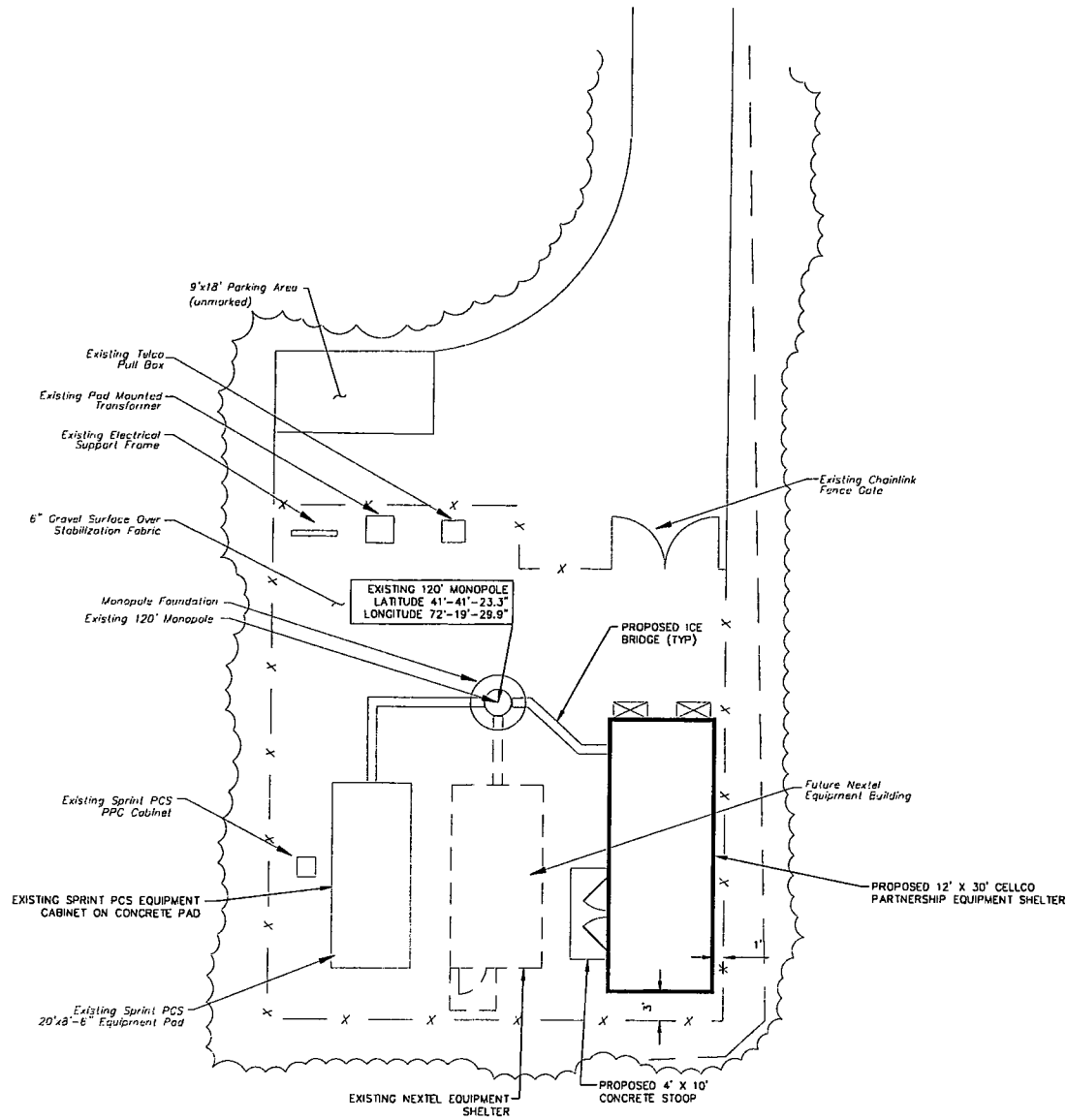
NOT FOR CONSTRUCTION

CONTENTS

	TITLE SHEET
SC-1	SITE PLAN AND TOWER ELEVATION

DATES

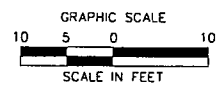
ISSUE DATE: MARCH 2, 2001
REVISION: APRIL 23, 2002



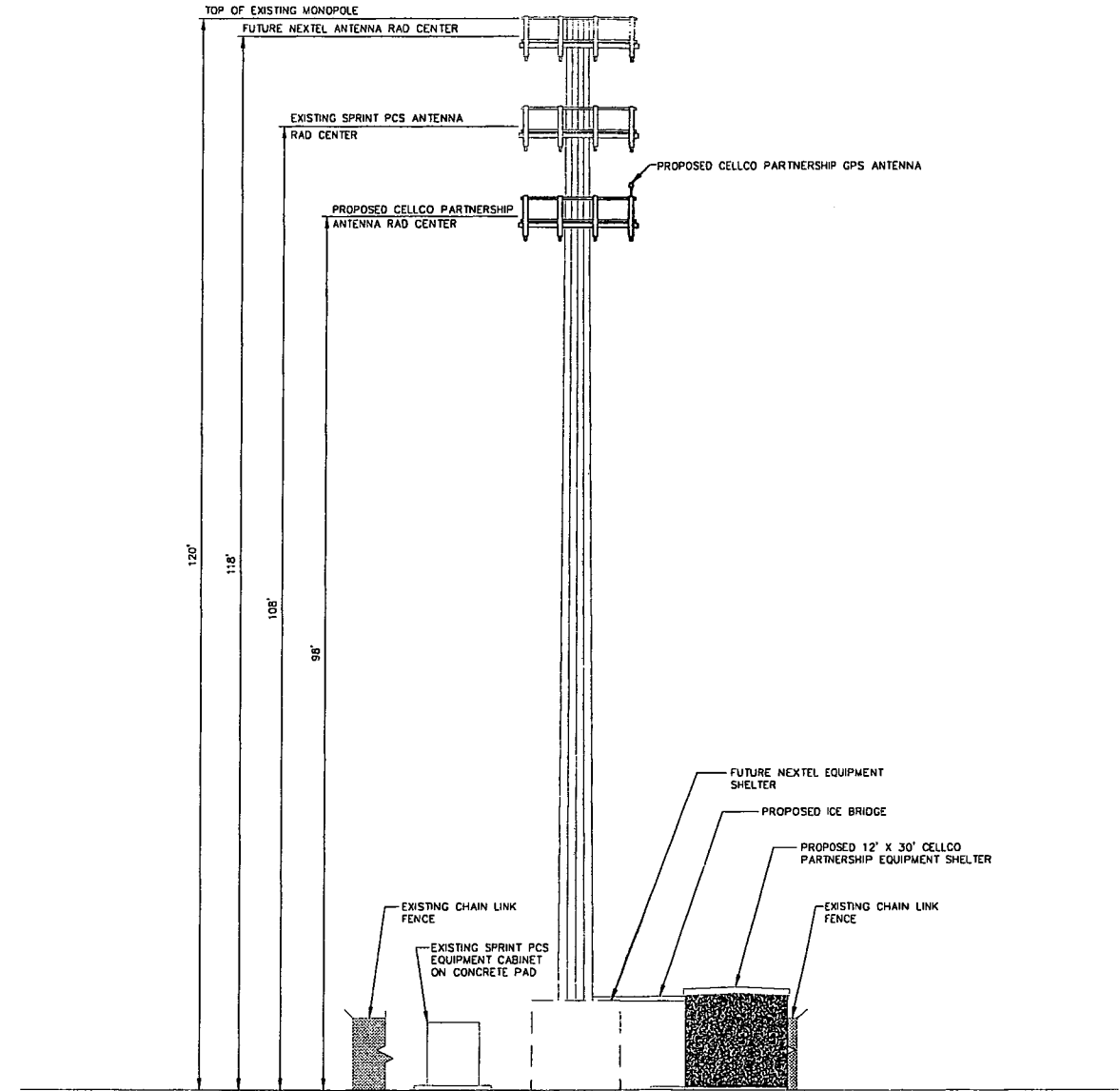
NOT FOR CONSTRUCTION

SITE PLAN

SCALE: 1"=10'

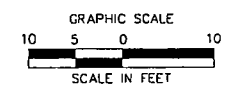


SCALE IN FEET

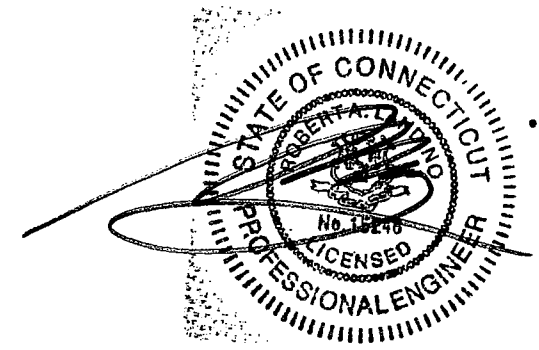


TOWER ELEVATION

SCALE: 1"=10'



SCALE IN FEET



ARCHITECTURE
ENGINEERING
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COLUMBIA SOUTH TELECOMMUNICATION FACILITY
330 MIDDLETOWN ROAD
COLUMBIA, CONNECTICUT

REVISIONS	Date	By	Checked
No. 1	4/22/02	PER FIELD VISIT	

Designed	R.C.E.
Drawn	R.C.E.
Checked	R.C.E.
Approved	R.A.L.
Scale	AS SHOWN
Project No.	010893
Date	03/02/01
CAD File	SCC83301

SITE PLAN AND TOWER ELEVATION

Sheet No.

SC-1

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