



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

November 16, 2000

J. Brendan Sharkey, Esq.
VoiceStream Wireless Corporation
100 Filley Street
Bloomfield, CT 06002

RE: **TS-VOICESTREAM-015-001023** - VoiceStream Wireless Corporation request for an order to approve tower sharing at an existing telecommunications facility located at 1069 Connecticut Avenue, Bridgeport, Connecticut.

Dear Attorney Sharkey:

At a public meeting held November 14, 2000, 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 cumulative radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

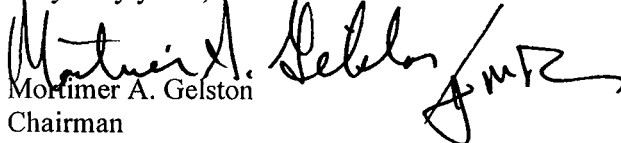
This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request 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 October 23, 2000.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Joseph P. Ganim, Mayor, City of Bridgeport
Melanie J. Howlett, Assistant City Attorney, City of Bridgeport
Eric Rabon, SpectraSite Communications
Ronald C. Clark, Nextel Communications

CITY ATTORNEY
Mark T. Anastasi

DEPUTY CITY ATTORNEY
John D. Guman, Jr.

ASSOCIATE CITY ATTORNEYS
John H. Barton
John P. Bohannon, Jr.
Barbara Brazzel-Massaro
Russell D. Liskov
John R. Mitola
Ronald J. Pacacha

CITY OF BRIDGEPORT
OFFICE OF THE CITY ATTORNEY

999 Broad Street
Bridgeport, Connecticut 06604-4328



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Melanie J. Howlett
Arthur C. Laske III
R. Christopher Meyer
John J. Robacynski
Stephen J. Sedensky, Jr.

LEGAL ADMINISTRATOR
Kathleen Pacacha

Telephone (203) 576-7647
Facsimile (203) 576-8252

November 14, 2000

Facsimile and Overnight Mail

Joel M. Rinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RECEIVED

NOV 15 2000

CONNECTICUT
SITING COUNCIL

Re: TS-VOICE STREAM-015-001023 – VoiceStream Wireless Corporation request for an Order to approve tower sharing at an existing telecommunications facility located at 1069 Connecticut Avenue – Comments of the City of Bridgeport

Dear Mr. Rinebold:

The City of Bridgeport ("City") submits the following comments on the application cited above. By Decision dated February 9, 2000, the Zoning Board of Appeals granted a variance to Nextel Communications ("Nextel") for the construction of a monopole ("tower") one hundred and thirty feet (130 feet) in height to be located at 1069 Connecticut Avenue, conditioned upon the development of the property in accordance with the approved site plan. By Decision dated July 26, 2000, the Planning and Zoning Commission ("P & Z Commission") approved a site plan for construction of: a 130 feet tower; a fenced-in enclosure and gate to encompass the base of the tower and safeguard the public should equipment based on the dimensions proposed by Nextel become dislocated from the tower; and a ten feet by twenty feet (10 x 20) metal equipment box for use by Nextel for associated equipment.

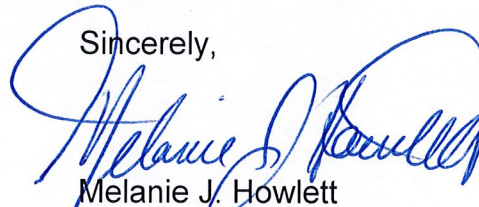
A review of the application for tower sharing submitted by VoiceStream Wireless Corporation ("VoiceStream") indicates that it appears that the new antennas will not exceed the variance height approved by the ZBA, and the associated equipment will be placed inside the equipment box already constructed and owned by Nextel. However, the application does not indicate whether the dimensions of the antennas will not exceed the dimensions of the Nextel antennas.

The approved Nextel Site Plan anticipated the location of one additional carrier in the then existing equipment box, and antennas to be installed on the tower by another licensed carrier at a height lower than the Nextel antennas, but designed in a manner that would not exceed the dimensions of the Nextel antennas.

The City will require that VoiceStream obtain a Building Permit prior to the installation of the new antenna and associated equipment. If the drawings submitted to the City for a Building Permit indicate that the VoiceStream antennas will have the same dimensions as the Nextel antennas, then additional approval by the P&Z Commission, by the submission of an application for approval of an Amended Site Plan, should not be required. However, the City will require a Surety Bond for the future removal of the antenna and equipment as a condition of VoiceStream obtaining said Building Permit.

If there are any questions regarding this matter, please do not hesitate to contact me.

Sincerely,



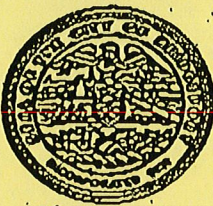
Melanie J. Howlett
Assistant City Attorney

Cc: William Shaw – Clerk, Bridgeport Planning & Zoning Commission
Brendan Sharkey, Esq. for VoiceStream

999 Broad Street
Bridgeport, Connecticut 06604-4328

DEPUTY CITY ATTORNEY
John D. Goman, Jr.

ASSOCIATE CITY ATTORNEYS
John H. Barton
John P. Bohannon, Jr.
Barbara Brazzel-Mascaro
Russell D. Liskov
(John R. Mitola)
Ronald J. Pacacha



Bridgeport

Melanie J. Howlett
Arthur C. Laska III
R. Christopher Meyer
Raymond B. Rubens
Stephan J. Sodenasky, Jr.

LEGAL ADMINISTRATOR
Kathleen Pacacha

Telephone (203) 576-7647
Facsimile (203) 576-8252

FAX TRANSMITTAL SHEET

DATE: 11/14/00
TO: J. Pinebold
FAX NO: 827-2950 (860)
FROM: M. Howlett
RE: TS-Voice Stream-015-001023
TOTAL NUMBERS OF PAGES: 2 (including cover sheet)

RECEIVED
NOV 14 2000
CONNECTICUT
SITING COUNCIL

MESSAGE:

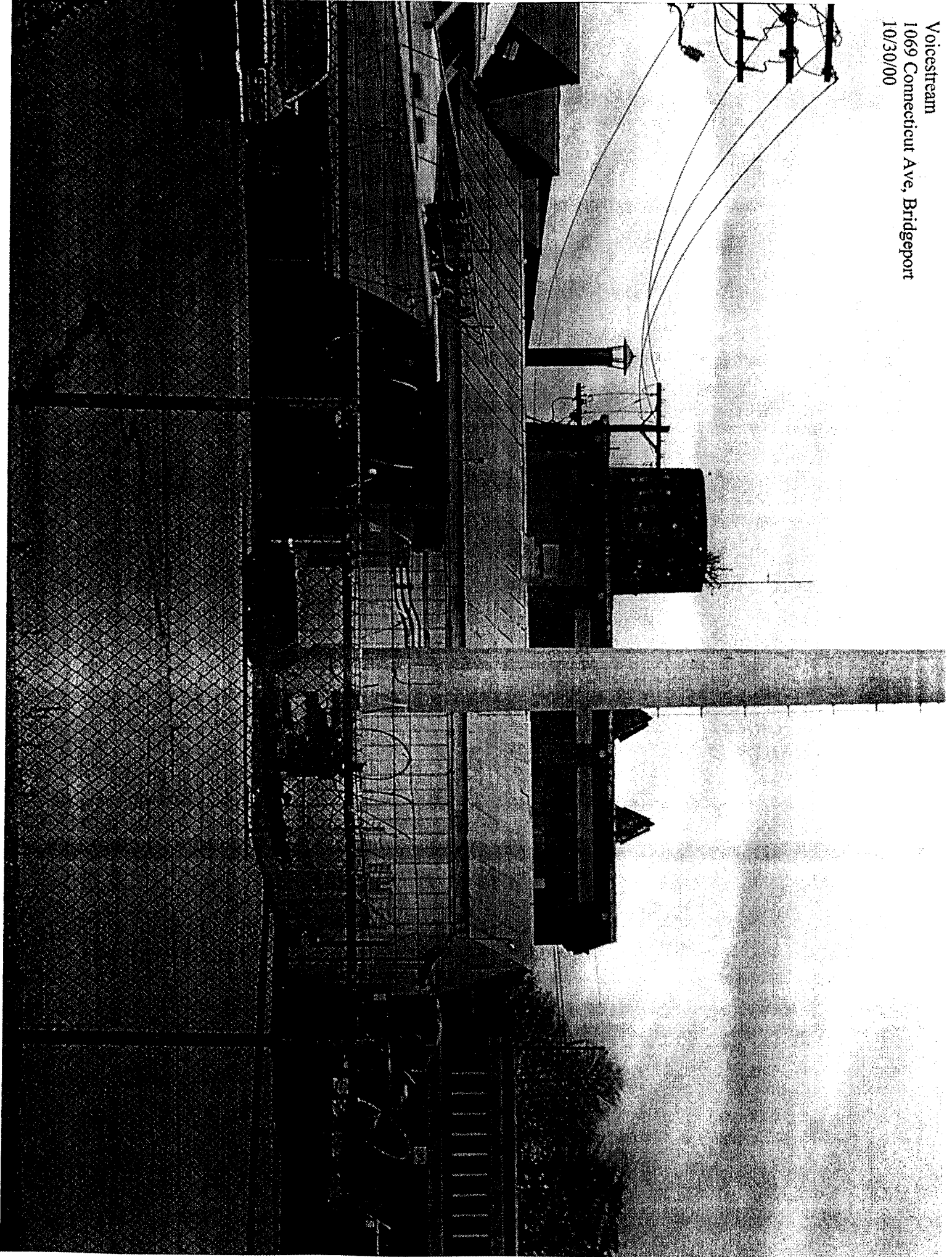
THE INFORMATION CONTAINED IN THIS FAX IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL TO WHOM, OR ENTITY TO WHICH, IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW.

IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT OR THE EMPLOYEE, OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS DOCUMENT IS STRICTLY PROHIBITED.

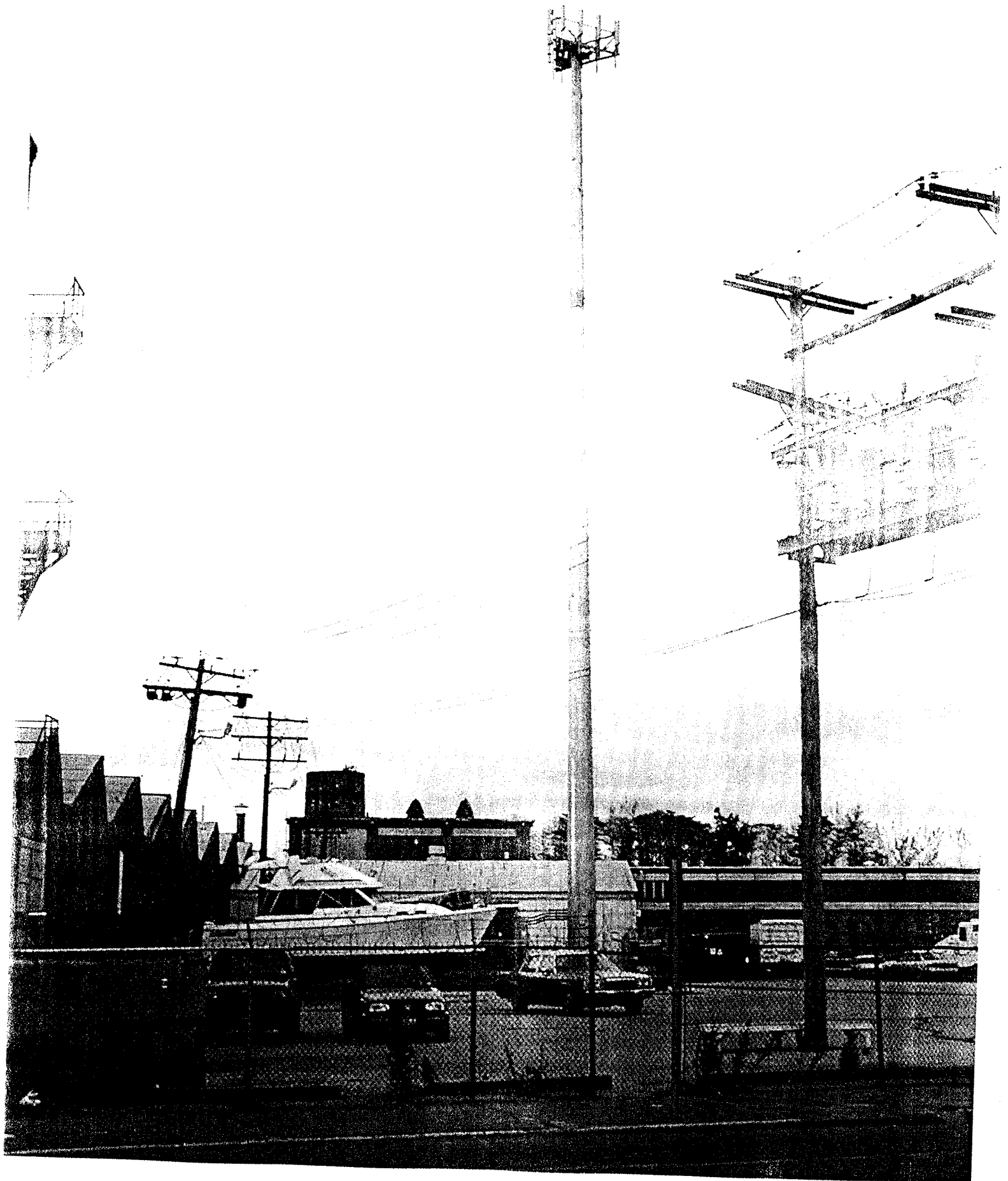
If you received this communication in error, please notify us immediately by collect telephone call and return the original message to us at the above address at our expense.

OPERATOR: _____

Voicestream
1069 Connecticut Ave, Bridgeport
10/30/00



VoiceStream
1069 Connecticut Ave., Bridgeport
10/30/00



CITY ATTORNEY
Mark T. Anastasi

CITY OF BRIDGEPORT
OFFICE OF THE CITY ATTORNEY

999 Broad Street
Bridgeport, Connecticut 06604-4328

ASSISTANT CITY ATTORNEYS

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ASSOCIATE CITY ATTORNEYS

John H. Barton
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October 31, 2000

Telephone (203) 576-7647
Facsimile (203) 576-8252

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NOV - 2 2000

CONNECTICUT
SITING COUNCIL

Facsimile and Overnight Mail

Joel M. Rhinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: TS-VOICE STREAM-015-001023 – VoiceStream Wireless Corporation request for an Order to approve tower sharing at an existing telecommunications facility located at 1069 Connecticut Avenue - **Appearance and Request for Continuance**

Dear Mr. Reinbold:

The City of Bridgeport ("City") is in receipt today of your letter regarding the application cited above, and a copy of the application, sent via regular mail on October 27, 2000. Based on your letter, the application was filed with the State Siting Council on October 23, 2000, and is scheduled for review by the State Siting Council in two (2) days on November 2, 2000. The City appreciates you forwarding this information to us, however, the applicant, VoiceStream, should have forwarded a copy of this application to the City the day it was filed with your Agency. VoiceStream's copy of the application to the City arrived at my office after 4:00 p. m. this afternoon, via overnight mail.

As you are aware, this is not the first time the City has received an application more than a week after it was filed at your Agency, and only a few days before your scheduled meeting. Nonetheless, generally this office tries to file its comments and concerns in a manner that does not delay your Agency's schedule. It is difficult to achieve that goal when the City is afforded less than the five (5) days that is generally considered the reasonable time frame for responding to matters that are before an Administrative Agency. (See Section 4-177a of the General Statutes of Connecticut.) Unfortunately, due to previously noticed matters before the Department of Public Utility Control, while the City always has in an interest in the installation of plant and equipment in its airspace, I will not be able to review this application and submit comments before noon on November 2, 2000. Accordingly, the City requests that this matter be continued until your next scheduled meeting. In addition, please enter my appearance on behalf of the City.

If there are any questions regarding this matter, please do not hesitate to contact me.

Sincerely,

Melanie J. Howlett
Assistant City Attorney

Cc: William Shaw – Clerk, Bridgeport Planning & Zoning Commission
Brendan Sharkey, Esq. for VoiceStream



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

October 26, 2000

Honorable Joseph P. Ganim
Mayor
City of Bridgeport
City Hall
999 Broad Street
Bridgeport, CT 06604

RE: **TS-VOICESTREAM-015-001023** - VoiceStream Wireless Corporation request for an order to approve tower sharing at an existing telecommunications facility located at 1069 Connecticut Avenue, Bridgeport, Connecticut.

Dear Mr. Ganim:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for November 2, 2000, at 2:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

A handwritten signature in black ink, appearing to read "Joel M. Rinebold".

Joel M. Rinebold
Executive Director

JMR/RKE/laf

Enclosure: Notice of Tower Sharing

c: Ms. Melanie J. Howlett, Assistant City Attorney, City of Bridgeport

100 Filley Street, Bloomfield, CT 06002
(860) 692-7154 phone
(860) 692-7159 fax

23 October, 2000

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

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OCT 23 2000

CONNECTICUT
SITING COUNCIL

RECEIVED

OCT 23 2000

CONNECTICUT
SITING COUNCIL

**Re: Request by VoiceStream Communications, Inc.
for an Order to Approve the Shared Use of a Tower Facility
1069 Connecticut Avenue, Bridgeport, Connecticut**

Dear Chairman Gelston and Members of the Council:

Pursuant to Connecticut General Statutes §16-50aa, VoiceStream Wireless Corporation ("VoiceStream") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared of an existing monopole tower located at 1069 Connecticut Avenue in Bridgeport, Connecticut. The tower is owned and operated by SpectraSite Communications ("SpectraSite"). VoiceStream proposes to install antennas on the existing tower located within SpectraSite's leased compound area, and to install related equipment near the base of the tower within the existing compound (see "Exhibit A"). VoiceStream requests that the Council find that the proposed shared use of the tower satisfies the criteria stated in §16-50aa and issue an order approving the proposed use.

Background

VoiceStream is licensed by the Federal Communications Commission (FCC) to provide PCS wireless telecommunications service in the State of Connecticut, which includes the area to be served by the proposed installation.

The SpectraSite tower at 1069 Connecticut Avenue in Bridgeport was approved by the Bridgeport Planning and Zoning Commission and is a 130-foot monopole located within an existing fenced compound. The coordinates for this location are 41-11-01 N and 73-09-29 W. Nextel Communications ("Nextel") currently has its antennas installed with centerlines at 130 feet above ground level ("AGL") and extending to 132 feet AGL. VoiceStream and SpectraSite have agreed to mutually acceptable terms and conditions for the proposed shared use of this tower, and SpectraSite has authorized VoiceStream to 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 shown on the site plan drawings and tower elevations attached as Exhibit A, VoiceStream proposes to install a total of twelve antennas, four per sector, with centerlines at 120 feet AGL. The antennas are EMS RR90-1702 DP. The radio transmission equipment associated with these antennas, a Nortel S8000 cabinet, would be mounted on a concrete slab at the base of the pole.

1069 Connecticut Avenue, Bridgeport

Page 2

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 was designed to accommodate multiple carriers, and VoiceStream is the second carrier to propose co-location. As the structural analysis attached as Exhibit C indicates, the tower 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 orders approving the proposed shared use of an existing tower facility such as the facility on Connecticut Avenue in Bridgeport. (Public Acts 93-268, Section 2; and 94-242, Section 6 (c)). 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) vests exclusive jurisdiction over these facilities in the Council, which shall "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 this statutory authority vested in the Council, an 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 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 existing SpectraSite compound area.
2. The proposed installations would not increase the noise levels at the existing facility by six decibels or more.
3. Operation of antennas at this site would not exceed the total radio frequency electromagnetic radiation power density level adopted by the American National Standards Institute ("ANSI"). The "worst-case" exposure calculated for operation of this facility (i.e., calculated at the base of the tower, which represents the closest publicly accessible point within the broadcast field of the antennas), with the Nextel and VoiceStream antennas, would be 5.7907% of the ANSI standard. These calculations are attached as Exhibit D.

1069 Connecticut Avenue, Bridgeport

Page 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 (approximately two weeks), the proposed installations would not generate any traffic other than for 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, VoiceStream has entered into an agreement with SpectraSite to share the use of the existing tower on terms agreeable to the parties. The proposed tower sharing is therefore economically feasible.

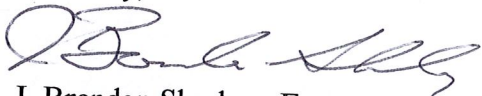
F. Public Safety Concerns - As stated above, the existing tower is structurally capable of supporting the proposed VoiceStream antennas. The tower stands on a raw land compound on Connecticut Avenue. The size and location of the tower have also been approved by the Bridgeport Planning and Zoning Commission which considered public health and safety in its review. VoiceStream is not aware of any other 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 and travelers.

Conclusion

For the reasons discussed above, the proposed shared use of the existing tower facility at 1069 Connecticut Avenue in Bridgeport, 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. VoiceStream therefore request that the Siting Council issue an order approving the proposed shared use.

Thank you for your consideration of this matter.

Sincerely,



J. Brendan Sharkey, Esq.
for VoiceStream Communications, Inc.

Attachments

cc: Joseph Ganim, Mayor of Bridgeport
Melanie Howlett, Esq., Assistant City Attorney

Exhibit A

Design Drawings
1069 Connecticut Avenue
Bridgeport, CT

PROJECT INFORMATION:
BRIDGEPORT
CT-11-452A
SPECTRASITE COMMUNICATIONS
1069 CONNECTICUT AVE.
BRIDGEPORT, CT. 06601
FARFIELD COUNTY

CURRENT ISSUE DATE:
10/09/00

ISSUED FOR:
CONSTRUCTION

REV.	DATE	DESCRIPTION	BY
△ C	10/09/00	REVISED PER VS	RC
△ B	9/7/00	ISSUED FOR CONSTRUCTION	CM
△ A	08/29/00	ISSUED FOR LEASE EXHIBIT	RC

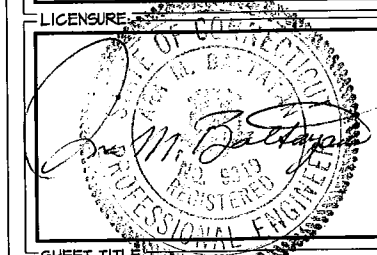
PLANS PREPARED BY:
SCIENTECH.
44 SHELTER ROCK RD.
DANBURY, CT 06810
TEL: 203-746-5300
FAX: 203-746-5272

APPROVALS:

PROPERTY OWNER	_____
ZONING	_____
CONSTRUCTION	_____
OPERATIONS	_____
RF	_____
NETWORK	_____
CONTRACTOR	_____

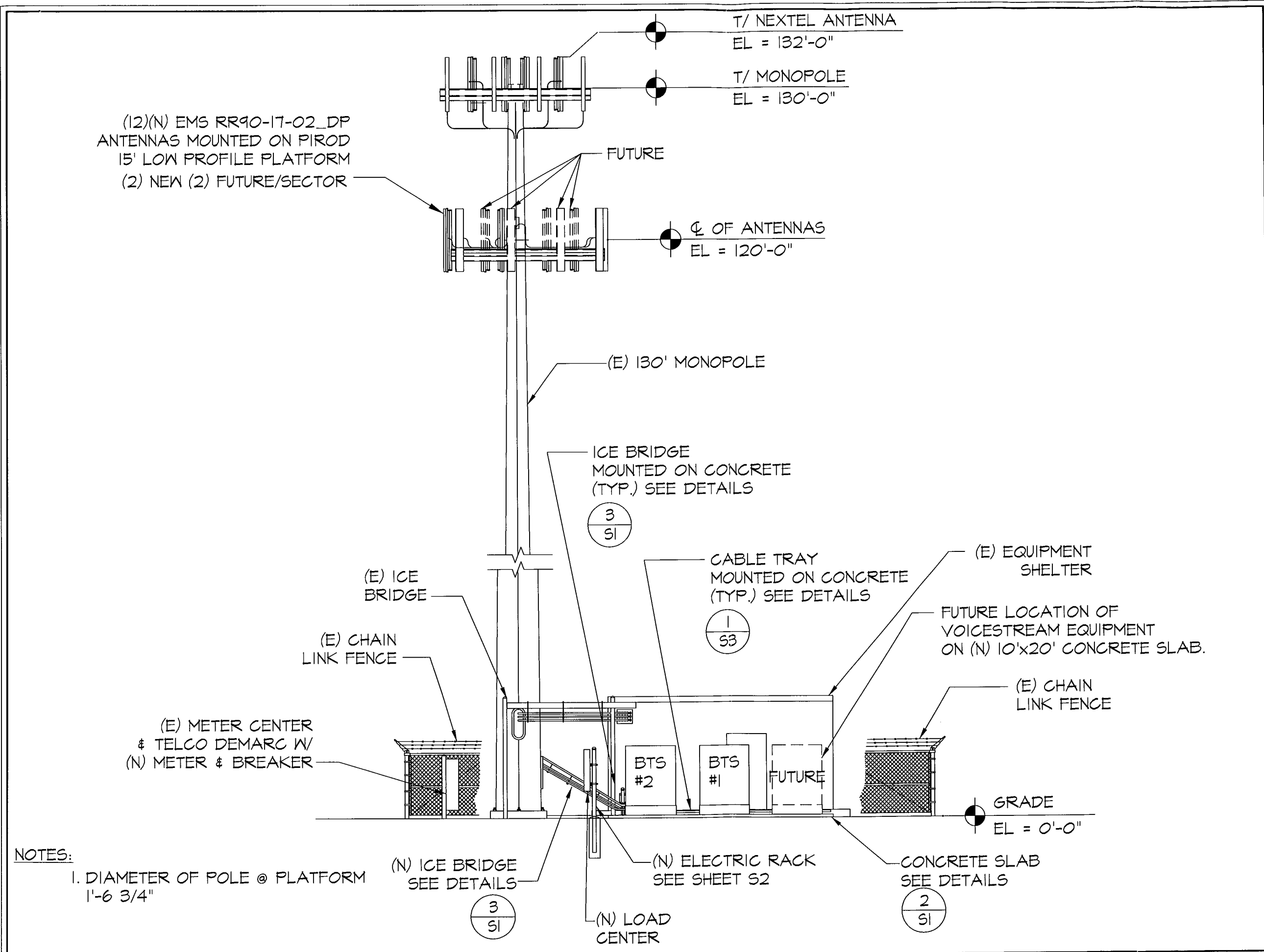
DRAWN BY: _____ CHK: _____ APV: _____

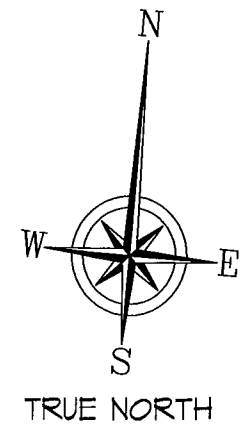
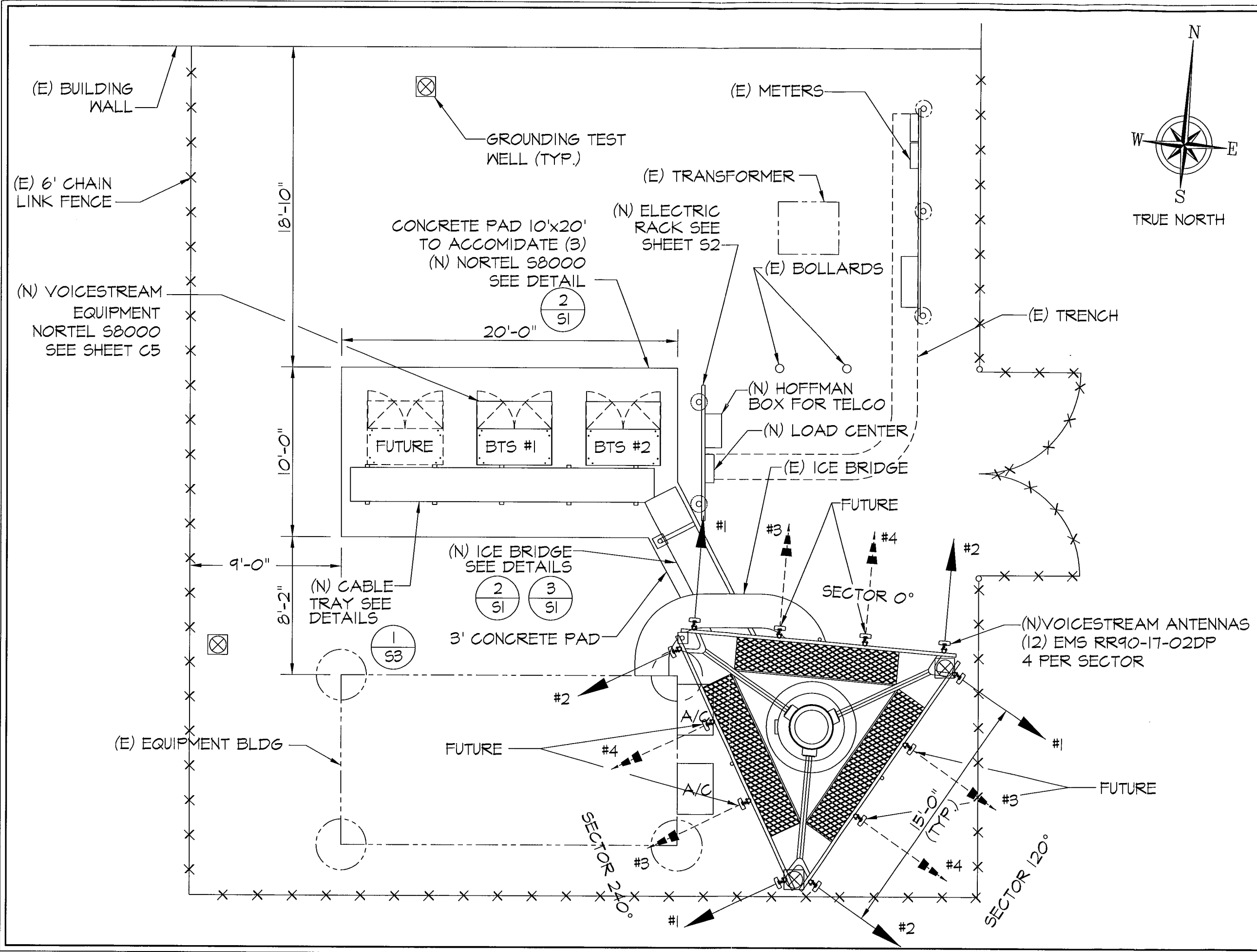
RC	CM	TH
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SHEET TITLE:
NORTH ELEVATION (LOOKING SOUTH)

SHEET NUMBER: **C2** REVISION: **C**
17193-0006





VoiceStream
WIRELESS

100 FILLEY STREET
BLOOMFIELD, CT. 06002
OFFICE: (860) 642-7150
FAX: (860) 642-7154

PROJECT INFORMATION:

BRIDGEPORT
CT-11-452-A
SPECTRASITE COMMUNICATIONS
1064 CONNECTICUT AVE.
BRIDGEPORT, CT 06607
FARFIELD COUNTY

CURRENT ISSUE DATE:
10/9/00

ISSUED FOR:
CONSTRUCTION

REV.	DATE	DESCRIPTION	BY
B	9/7/00	ISSUED FOR CONSTRUCTION	JS
A	08/29/00	ISSUED FOR LEASE EXHIBIT	RC

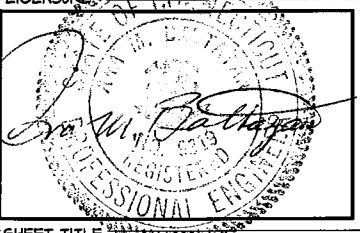
PLANS PREPARED BY:
SCIENTECH.

44 SHELTER ROCK RD.
DANBURY, CT 06810
TEL: 203-746-5300
FAX: 203-746-5272

APPROVALS:

PROPERTY OWNER	ZONING
CONSTRUCTION	OPERATIONS
RF	NETWORK
CONTRACTOR	

DRAWN BY: JS CHK: CK APV: KW



SHEET TITLE:
SITE PLAN

SHEET NUMBER: **C1** REVISION: **B**

17193-0006

Exhibit C

Structural Analysis
1069 Connecticut Avenue
Bridgeport, CT

Mr. Eric Rabon
SpectraSite Communications, Inc.
100 Regency Forest
Suite 200
Cary, N.C. 27511

08/27/00¹
CT-0005

Bridgeport

Sub: Structural Evaluation of 130ft Monopole Engineered Endeavors
1069 Connecticut Ave, Bridgeport, CT.

Dear Mr. Rabon:

The above subject tower is designed to support antenna sectors, similar to the existing and proposed VoiceStream equipment² in wind-face area and weight, at the following elevations:

130ft., 120ft., 110ft., and 100ft.

Design criteria is EIA-222-F for a 85 mph³ base windload without ice and 75% of the base windload with 1/2" radial ice.

VoiceStream will be the 3rd user to be placed on the tower at 120 feet. The only other current users on the tower⁴ are:

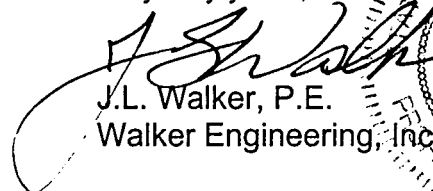
Nextel at top
XM Radio at 15 and 110ft

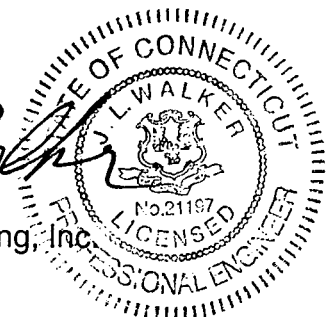
All existing and proposed equipment and waveguides are within the tower's design envelope.

The subject tower, and its foundation, is adequate to support the proposed loads.

The tower should be re-evaluated as future loads are added. Please do not hesitate to give me a call if you have any questions or comments.

Very truly yours,


J.L. Walker, P.E.
Walker Engineering, Inc.



¹ Spectra-620qk, w0008-620 ct-0005 mono L0 ct

² Proposed loading: 12ea EMS RR90170dDP antennas on a 14ft Std platform mount at 120ft, fed by 24-1-5/8" φ coax cable.

³ The EIA minimum windload for Fairfield County is 85 mph.

⁴ Existing/Future loading: 12ea. Decibel DB844 H90E-XY antennas on a platform mount, at top', fed by 12- 1-1/4" φ coax cable. and 1ea. Tiltex TA-2350-DAB antenna fed by 1 ea. 1-5/8" φ coax cable at 110ft and 1 ea Tiltex satellite dish TA-2324-LHCP at 15ft fed by 1ea 7/8" φ coax cable. All coax running inside pole.

Exhibit D

Power Density Calculations

1069 Connecticut Avenue

Bridgeport, CT

Technical Memo

To: Brendan Sharkey
From: Chetan Dhaduk (Radio Engineering Consultant)
cc: Mike Fulton
Subject: Power Density Report for CT11452A
Date: 10/3/00

1. Introduction:

This report is the result of an Electromagnetic Field Intensities (EMF - Power Densities) study for the proposed VoiceStream Wireless PCS antenna installation on Nextel Tower at 1069 Connecticut Avenue, Bridgeport CT. This study incorporates the most conservative considerations for determining the practical combined worst case power density levels that would be theoretically encountered from several locations surrounding the transmitting location.

2. Discussion:

The following assumptions were used in the calculations:

- 1) The emissions from the VSW transmitters are in the 1930-1950 MHz frequency band.
- 2) The antenna cluster consists of three sectors, with up to four antennas per sector. The model number for each antenna is EMS RR90-17-02 DP.
- 3) The EMS antenna height is 120' centerline.
- 4) The maximum transmit power from each sector, based on the worse case calculation with four antennas per sector, is 3166.72 Watts Effective Isotropic Radiated Power (EiRP).
- 5) All the antennas are simultaneously transmitting and receiving, 24 hours a day.
- 6) Power levels emitting from the antennas are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 7) The average ground level of the studied area does not significantly change with respect to the transmitting location.

Equations given in "FCC OET Bulletin 65, Edition 97-01" were then used with the above information to perform the calculations.

3. Conclusion:

Based on the above worst case assumptions, the power density calculations from the proposed VoiceStream Wireless, PCS antenna installation at Nextel Tower is 0.048247 mW/cm². This value represents only 4.8247% of the Maximum Permissible Emission (MPE) standard of 1000 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$) set forth in the FCC/ANSI/IEEE C95.1-1991. The collective "worst-case" exposure would be only 5.7907% of ANSI/IEE Standard, as calculated for mixed frequency sites. Details are shown in the attachment. Furthermore, the proposed antenna locations for VoiceStream Wireless on Nextel Tower at 1069 Connecticut Avenue, Bridgeport CT will not interfere with existing public safety telecommunications, AM band and FM band radio broadcast, TV, Police Communication, HAM Radio communications and other signals in the area.

Worst Case Power Density for Nextel Tower in Bridgeport, CT

Region 11 - Connecticut	
Power Density Calculation - Worst Case	
Base Station TX output	16 W
Number of channels	8
Antenna Model	EMS: RR-90-17/ RV-90-17
Antenna Gain	16.5 dBi
Cable Size	1 5/8"
Cable Length	135 ft
Jumper & Connector loss	1 dB
Cable Loss per foot	0.0116
Total Cable Loss	1.566 dB
Total Attenuation	2.566 dB
Total EIRP per channel	55.98 dB
Total EIRP per sector	65.01 dB
Ground Reflection	1.6
Frequency	1930 MHz
Antenna Height	120 ft
nsg	13.934
Power Density (S)	0.048247 mW / cm ²
% MPE	4.8247%

1630.9

Combined %MPE Without Voicestream = 0.9660%

Combined %MPE With Nextel and Voicestream Wireless = 5.7907%

Equation Used :

$$S = \frac{(1000 \text{ (grf)})^2 (\text{Power}) * 10^{(nsg/10)}}{4\pi (R)^2}$$

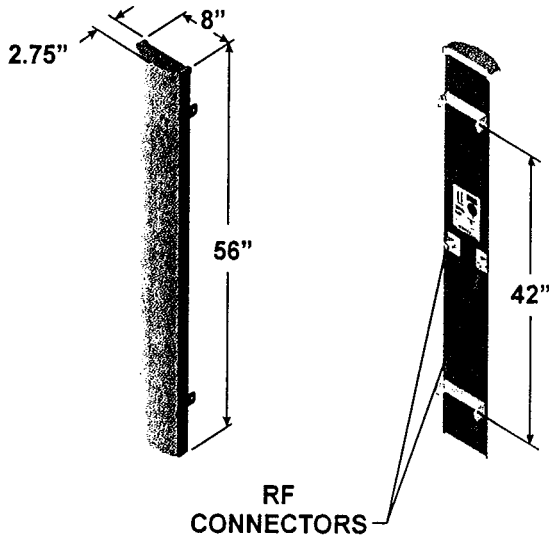
Office of Engineering and Technology (OET) Bulletin 65, Edition 97-01, August 1997

Exhibit B

Equipment Specifications

1069 Connecticut Avenue

Bridgeport, CT

1850 MHz - 1990 MHz (P)

90° beamwidth
16.5 dBi gain
**±45°
DualPol™**
56 inch

SPECIFICATIONS

Electrical

Azimuth Beamwidth	90°
Elevation Beamwidth	6°
Gain	16.5 dBi (14.4 dBd)
Polarization	Slant, ±45°
Port-to-Port Isolation	> 30 dB
Front-to-Back Ratio	> 25 dB (≥ 30 dB Typ.)
Electrical Downtilt Options	0°, 2°, 4°, 6°
VSWR	1.35:1 Max
Connectors	2; Type N or 7-16 DIN (female)
Power Handling	250 Watts CW
Passive Intermodulation	<-147 dBc (2 tone @ +43 dBm (20W) ea.)
Lightning Protection	Chassis Ground

Mechanical

Dimensions (L x W x D)	56in x 8in x 2.75in (142 cm x 20.3 cm x 7.0 cm)
Rated Wind Velocity	150 mph (241 km/hr)
Equivalent Flat Plate Area	3.1ft ² (.29 m ²)
Front Wind Load @ 100 mph (161 kph)	90 lbs (400 N)
Side Wind Load @ 100 mph (161 kph)	31 lbs (139 N)
Weight	18 lbs (8.2 kg)

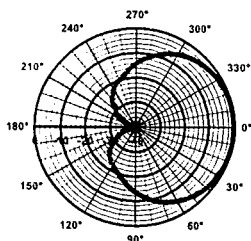
Note: Patent Pending and US Patent number 5,757,246.

Values and patterns are representative and variations may occur. Specifications may change without notice due to continuous product enhancements. Digitized pattern data is available from the factory or via the web site www.emswireless.com and reflect all updates.

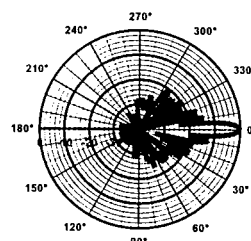
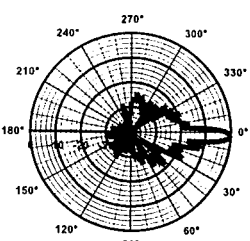
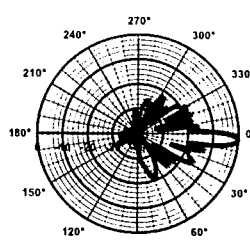
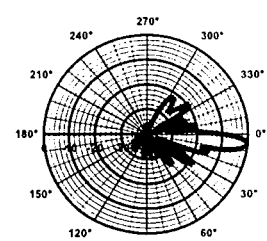
MOUNTING OPTIONS

Model Number	Description	Comments
MTG-P00-10	Standard Mount (Supplied with antenna)	Mounts to Wall or 1.5 inch to 5.0 inch O.D. Pole (3.8 cm to 12.7 cm)
MTG-S02-10	Swivel Mount	Mounting kit providing azimuth adjustment.
MTG-DXX-20*	Mechanical Downtilt Kits	0° - 10° or 0° - 15° Mechanical Downtilt
MTG-CXX-10*	Cluster Mount Kits	3 antennas 120° apart or 2 antennas 180° apart
MTG-C02-10	U-Bolt Cluster Mount Kit	3 antennas 120° apart, 4.5" O.D. pole.
MTG-TXX-10*	Steel Band Mount	Pole diameters 7.5" - 45"

* Model number shown represents a series of products. See mounting options section for specific model number.



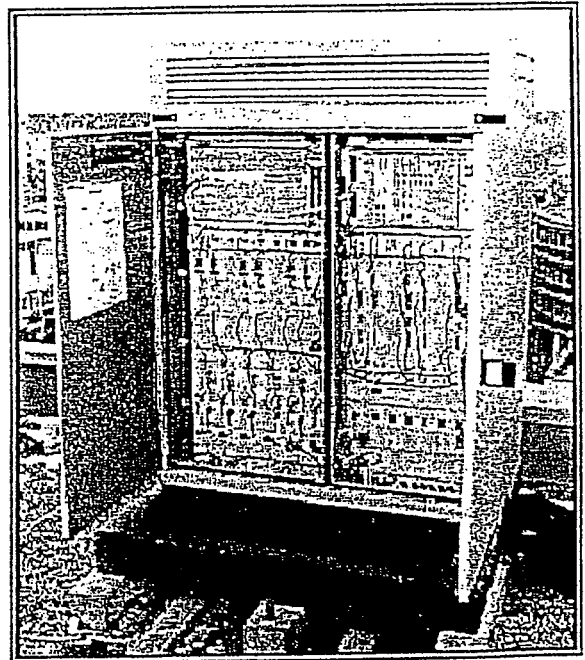
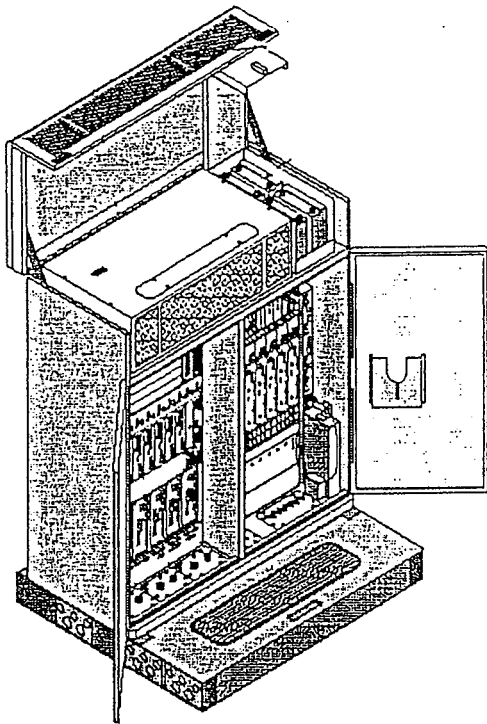
Azimuth

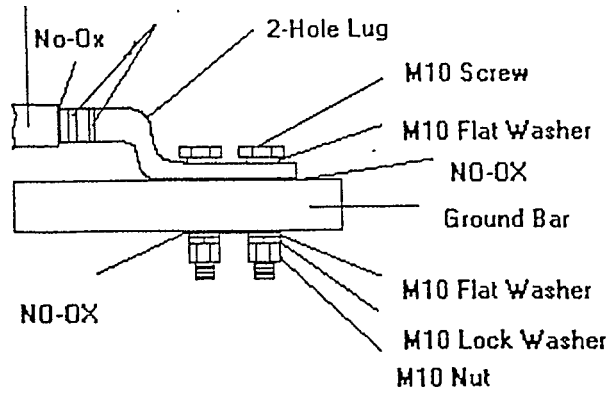
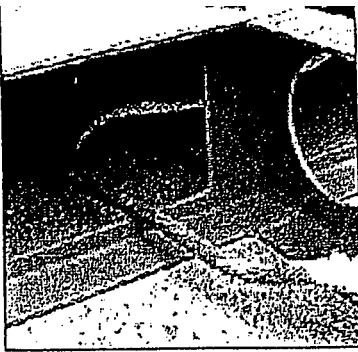

 Elevation
0° Downtilt

 Elevation
2° Downtilt

 Elevation
4° Downtilt

 Elevation
6° Downtilt

NORTEL
NETWORKS™

S8000 BTS

Site Specifications





Apply a light coating of No Oxidation (NO-OX) to the ground bar area.

Dimensions, Weights & Clearances

BTS

Weight: 915 pounds
 Dimensions: 53.2"W x 26"D x 63"H

Clearances while transporting in building:

Door Access:

Height: 6.6 feet
 Width 3 feet

Corridor Access:

Height: 6.6 feet
 Width: 3.6 feet (straight), 6.6 feet (right angle)

Clearances when installed:

Above: 28 inches for opening of hood
 Rear: 8 inches for installation of outer skin
 Sides: 8 inches for adjustment of door hinges
 Front: 54 inches to open door and technician access

Plinth

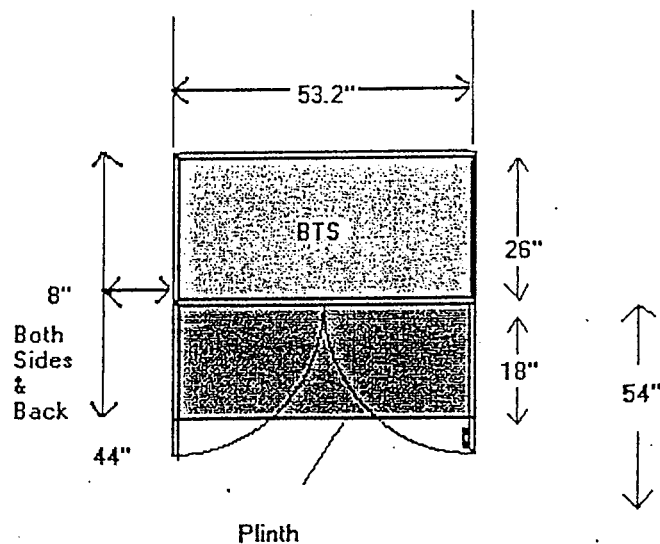
Weight:
 87 pounds

Dimensions:
 53.2"W x 44"D x 10.2"H

Floor Characteristics

Minimum Floor Resistance:
 123 pounds/foot²

Flatness:
 ¼ inch over 78 inches



Electrical Specifications

Split Single-Phase

3 wires plus ground

L1: Black 6 gauge

L2: Red 6 gauge

Neutral: White 6 gauge

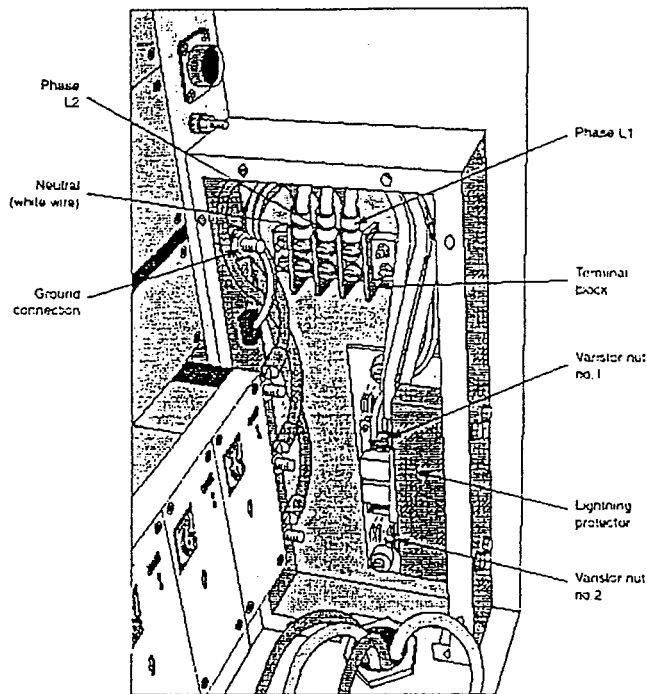
Ground: Yellow/Green 6 gauge

Maximum distance between AC box and BTS: 105 feet

187 ~ 254 VAC between L1 and L2

99 ~ 127 VAC between Neutral and L1 or L2

45 ~ 65 Hertz



AC connection to BTS located at the front, lower, right-hand side of BTS

Circuit Breaker in AC Box

Up to 4 transmitters

30 A, bipolar, C curve

5 or more transmitters

40A, bipolar, C curve

BTS to Ground connection

Minimum 2 AWG, run in most direct route as possible towards true earth, minimizing bends. No bend shall be less than 90 degrees.

Brian, All set for 10:am Monday. Julie Donaldson will meet us at the site.

This application was originally filed as a tower share, since withdrawn. It was re-filed as a Petition since the new boundaries of the compound extended the lease area. Northcoast wants to locate at the 100-foot level of this 132-foot monopole. The compound will be extended eighteen feet to the east to accommodate equipment cabinets. A copy of the Petition is enclosed.

Thanks

Bob

Site: 1096 Connecticut Avenue, Bridgeport
Time: 10:00 am

Please note - Connecticut Avenue is a one way street heading west.



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