



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

December 13, 2001

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

RE: **TS-VER-007-011203** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 1684 Chamberlain Highway, Berlin, Connecticut.

Dear Attorney Baldwin:

At a public meeting held December 11, 2001, 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 letters dated December 3, 2001, and December 6, 2001.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Thomas J. Veronesi, Mayor, Town of Berlin
Brian J. Miller, Town Planner, Town of Berlin
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC
Ronald C. Clark, Nextel Communications
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene & MacRae

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Facsimile Transmission Sheet

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Date: December 6, 2001

No. of Pages (including cover): 3

Recipient(s) List

Name	Company	Fax Number	Phone Number
Robert Mercier	Connecticut Siting Council	860-827-2950	860-827-2935

Additional Message:

If transmission is not clearly or completely received, please contact the sender through the direct line noted above, or if a direct line is not indicated, through the firm's main number 860-275-8200.

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December 6, 2001

Via Facsimile

Robert Mercier
Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

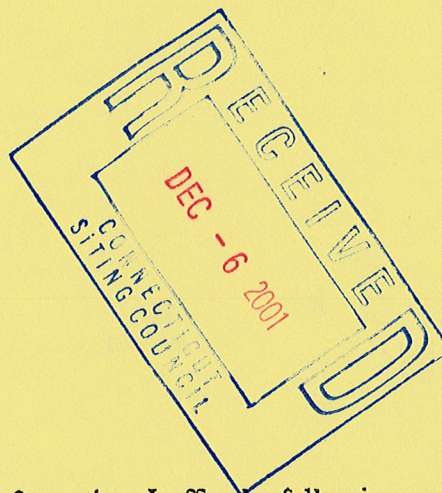
Re: **TS-VER-007-011203 - Berlin**
TS-VER-083011127 - Middletown

Dear Mr. Mercier:

In response to your request for additional information, I offer the following power density table for those carriers at the Berlin and Middletown sites.

BERLIN

<u>Carrier (Ht.)</u>	<u>ERP</u>	<u>Number of Channels</u>	<u>Power Density mW/cm²</u>	<u>Standard</u>	<u>% of Standard</u>
Sprint (125')	122	11	0.0308	1.0	3.08
Nextel (115')	100	9	0.0244	0.572	4.72
VoiceStream (105')	122	8	0.0318	1.0	3.18
Verizon Wireless (95')	100	19	0.0756	0.583	12.97
Total					23.50



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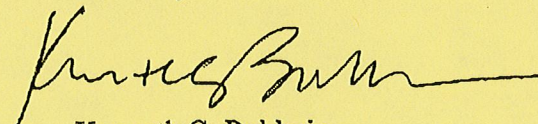
Robert Mercier
December 6, 2001
Page 2

MIDDLETOWN

<u>Carrier (Ht.)</u>	<u>ERP</u>	<u>Number of Channels</u>	<u>Power Density mW/cm²</u>	<u>Standard</u>	<u>% of Standard</u>
AT&T (150')	100	8	0.0116	1.0	1.16
VoiceStream (140')	122	8	0.0178	1.0	1.78
Sprint (129')	122	115	0.0289	1.0	2.89
Nextel (117.5')	100	9	0.023	0.572	4.09
Verizon Wireless (110')	100	19	0.056	0.583	9.68
Total					19.60

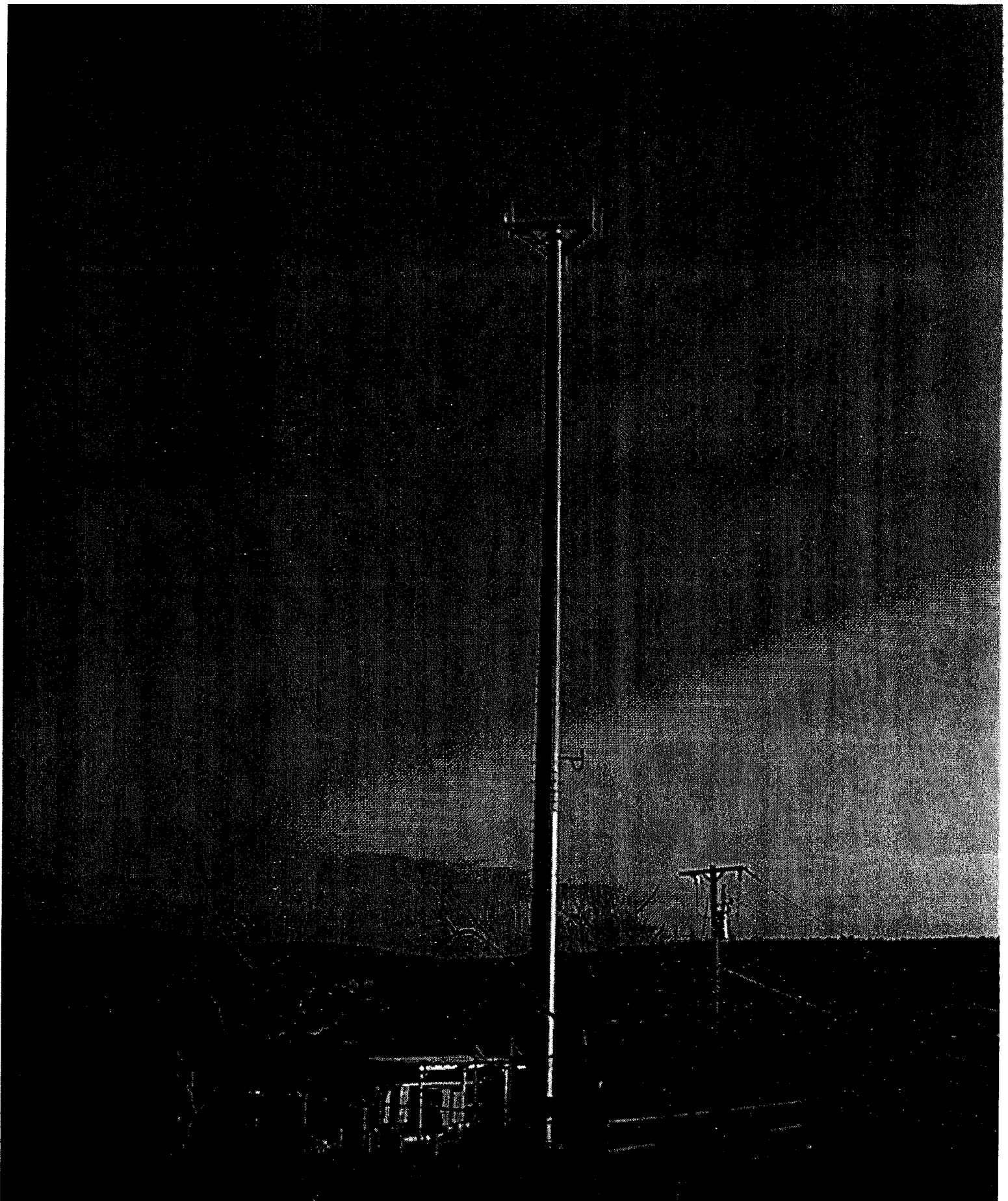
If you need any additional information regarding this facility please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

KCB/kmd



Verizon 1684 Chamberlain Hwy., Berlin 12/06/01



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
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Phone: (860) 827-2935
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December 5, 2001

Honorable Thomas J. Veronesi
Mayor
Town of Berlin
240 Kensington Road
Kensington, CT 06037

RE: **TS-VER-007-011203** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 1684 Chamberlain Highway, Berlin, Connecticut.

Dear Ms. Veronesi:

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 December 11, 2001, at 1:30 p.m. in Hearing Room Two, 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,

Mortimer A. Gelston
Chairman

MAG/laf

Enclosure: Notice of Tower Sharing

c: Brian J. Miller, Town Planner, Town of Berlin

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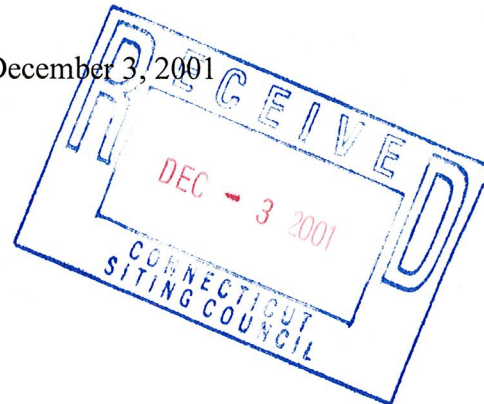
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December 3, 2001



Via Hand Delivery

Mr. Joel M. Rinebold
Executive Director
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 1684 Chamberlain Highway, Berlin, Connecticut**

Dear Mr. Rinebold:

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 Sprint PCS ("Sprint") tower located at 1684 Chamberlain Highway, Berlin, 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 Sprint tower at 1684 Chamberlain Highway was constructed pursuant to approvals from the Town of Berlin. The tower is a 125-foot self-supporting monopole structure within a 80' x 100' facility compound. The tower is currently owned and operated by Sprint and is shared by Nextel and VoiceStream.

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 Berlin installation. Cellco and Sprint have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions, and Sprint has authorized Cellco 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.

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Joel M. Rinebold
December 3, 2001
Page 2

Cellco proposes to install twelve (12) panel-type antennas at the 95-foot level on the tower. The radio transmission equipment associated with these antennas would be located in a new 12-foot by 30-foot equipment building which would be 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. A letter verifying the structural integrity of the existing tower is attached to this filing.

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 1684 Chamberlain Highway in Berlin. 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.
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 0.0308 mW/cm² (3.08% of the standard) for Sprint antennas; 0.0244 mW/cm² (4.27% of the standard) for Nextel antennas;

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Joel M. Rinebold
December 3, 2001
Page 3

and 0.0318 mW/cm² (3.18% of the standard) for VoiceStream antennas. Cellco would add 0.0756 mW/cm² (12.97% of the standard), for a total of 23.50% 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, Sprint 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 proposed replacement 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 1684 Chamberlain Highway in Berlin, 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

KCB/kmd
Attachments

cc: Bonnie L. Therrien, Town Manager
Sandy M. Carter

Cellco Partnership

d.b.a. **verizon**wireless

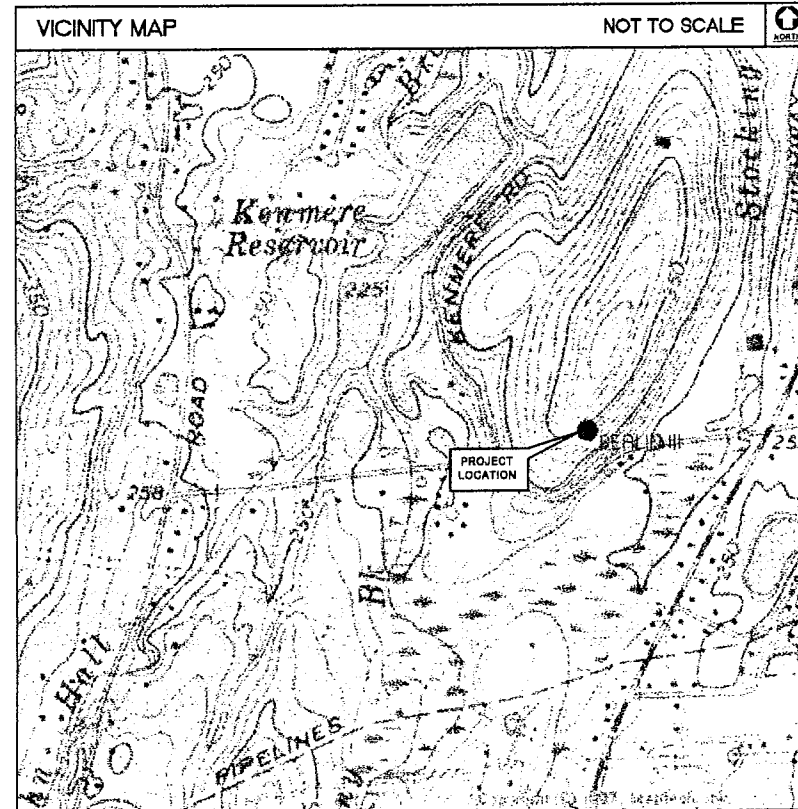
WIRELESS COMMUNICATIONS FACILITY

BERLIN III

1684 CHAMBERLAIN HIGHWAY

BERLIN, CONNECTICUT

PROJECT SUMMARY	
SITE NAME:	BERLIN III
SITE ADDRESS:	1684 CHAMBERLAIN HIGHWAY BERLIN, CONNECTICUT
PROPERTY OWNER:	LAWRENCE AND NELLIE LAVIANA 1684 CHAMBERLAIN HIGHWAY BERLIN, CONNECTICUT
APPLICANT:	VERIZON WIRELESS 99-101 EAST RIVER DR. WEST HARTFORD, CT 06108
CENTER OF TOWER:	LATITUDE: 41° 35' 23" LONGITUDE: 72° 48' 20" COORDINATES BASED ON CT SITING COUNCIL
GENERAL NOTES	
1. PROPOSED AND EXISTING ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY VERIZON WIRELESS.	
SITE DIRECTIONS	
FROM: 99-101 EAST RIVER DR., EAST HARTFORD, CT. TO: 1684 CHAMBERLAIN HWY, BERLIN, CT	
START OUT GOING NORTH ON RIVERSIDE DR. TURN RIGHT ON TO WILLOW ST. TURN LEFT ON TO CT-ZW. TURN RIGHT ON TO EAST RIVER DR. MERGE ON TO US-5/WILBUR CROSS PARKWAY. TAKE THE I-91S EXIT TOWARDS NEW HAVEN. TAKE THE CT-9N, EXIT# 22N. TAKE CT-372 EXIT# 21. KEEP RIGHT AT FORK IN RAMP. MERGE ON TO MILL ST. TURN LEFT ON TO CT-372 WORTHINGTON RDG. TURN RIGHT ON TO HUDSON ST. HUDSON ST. BECOMES NORTON RD. TURN LEFT ON TO CHAMBERLAIN HIGHWAY.	



LEGEND		
SYMBOL	DESCRIPTION	
	SECTION OR DETAIL NUMBER	
	SHEET WHERE DETAIL/SECTION OCCURS	
	ELEVATION NUMBER	
	SHEET WHERE ELEVATION OCCURS	
SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	01
C-1	COMPOUND PLAN & TOWER ELEVATION	01

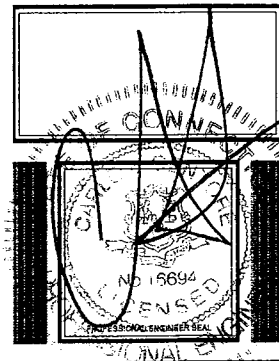
REVISIONS		
DC	DATE	DESCRIPTION
01	11/20/01	SITING COUNCIL REVIEW
		SITING COUNCIL FINAL

Cellco Partnership
d.b.a. **verizon**wireless

NATCOMM

Natcomm, L.L.C. Engineering Consultants
63-2 North Branford Road
Branford, Connecticut 06405
Tel: (203) 486-0550
Fax: (203) 486-8587

Consulting Engineers-Project Management
Civil-Structure-Mechanical-Electrical



BERLIN III
1684 CHAMBERLAIN HIGHWAY
BERLIN, CT.

PROJECT NO: 422A
DRAWN BY: DFB
CHECKED BY: FJT
SCALE: AS NOTED
DATE: 11/02/01

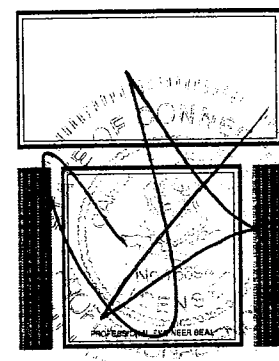
TITLE SHEET

T-1
DWG. 1 OF 2

00	11/09/01	SITING COUNCIL REVIEW
01	11/12/01	SITING COUNCIL FINAL

Cellco Partnership
d.b.a. **verizon**wireless

Natcomm, LLC - Engineering Consultants
NATCOMM
Natcomm, LLC - Engineering Consultants
83-2 North Branford Road
Branford, Connecticut 06405
Tel: (203) 466-0550
Fax: (203) 466-8587
Consulting Engineers - Project Management
Civil - Structural - Mechanical - Electrical

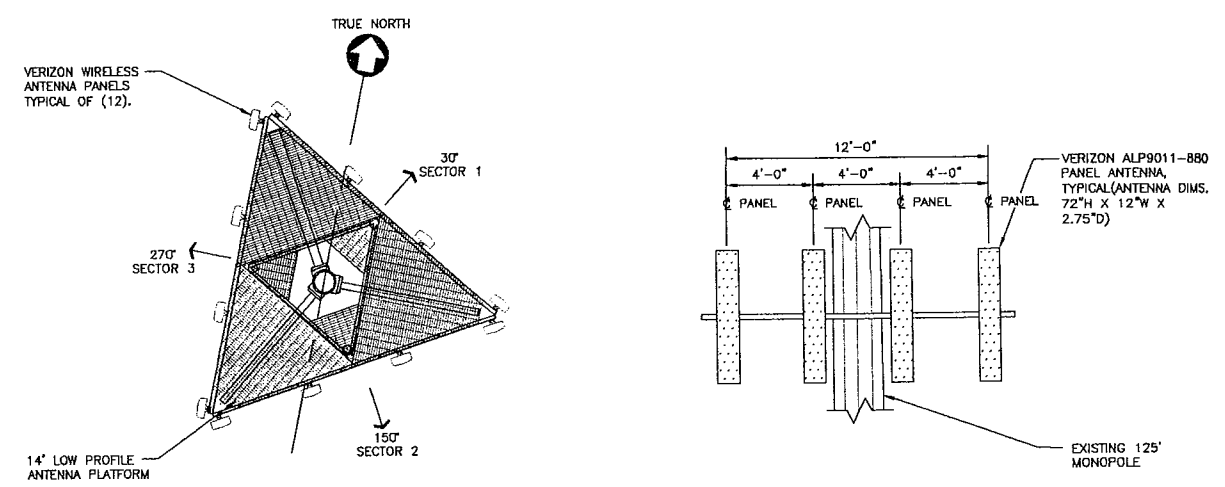


BERLIN III
1684 CHAMBERLAIN HIGHWAY
BERLIN, CT.

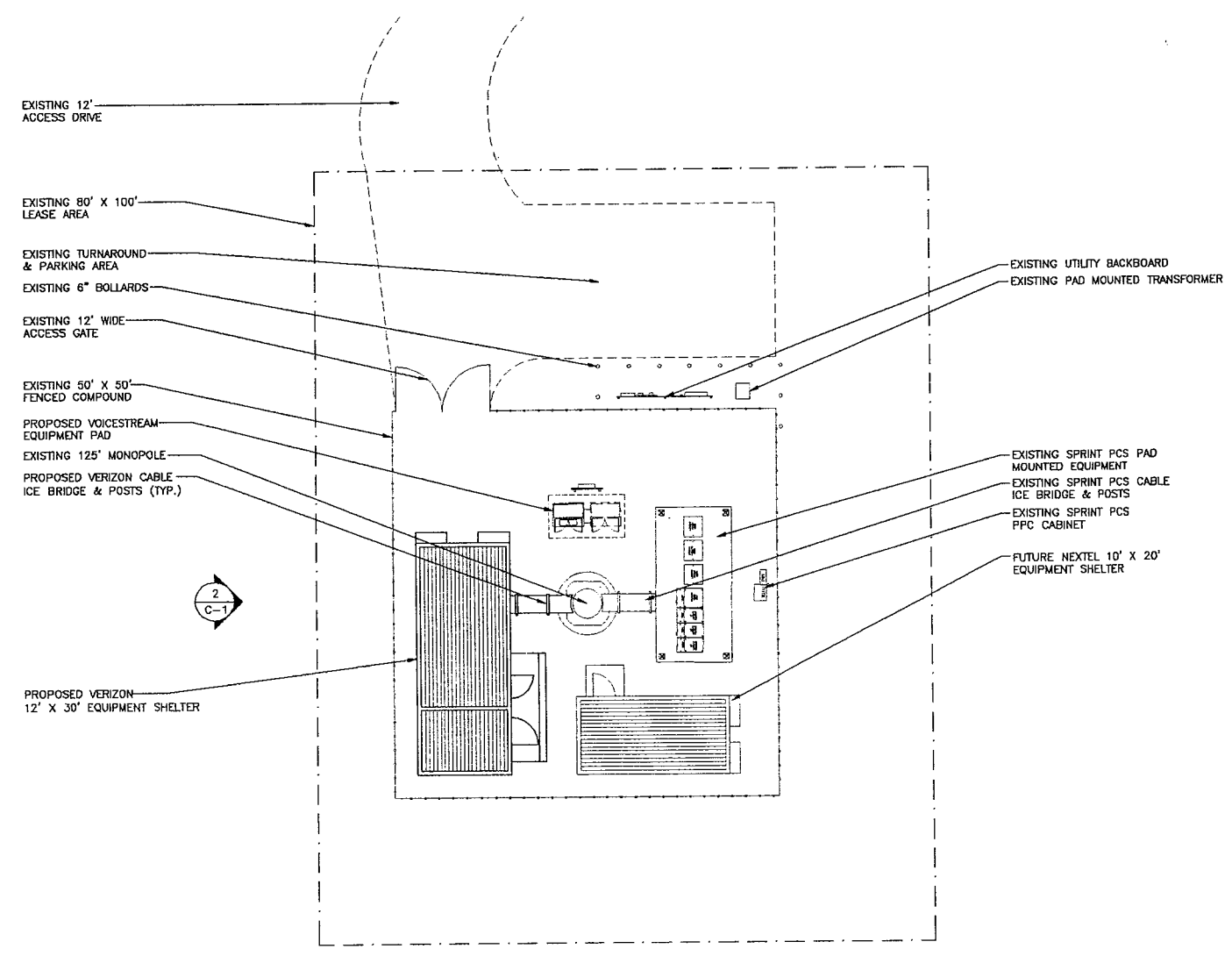
PROJECT NO: 422A
DRAWN BY: DFB
CHECKED BY: FJT
SCALE: AS NOTED
DATE: 11/02/01

COMPOUND
PLAN &
ELEVATION

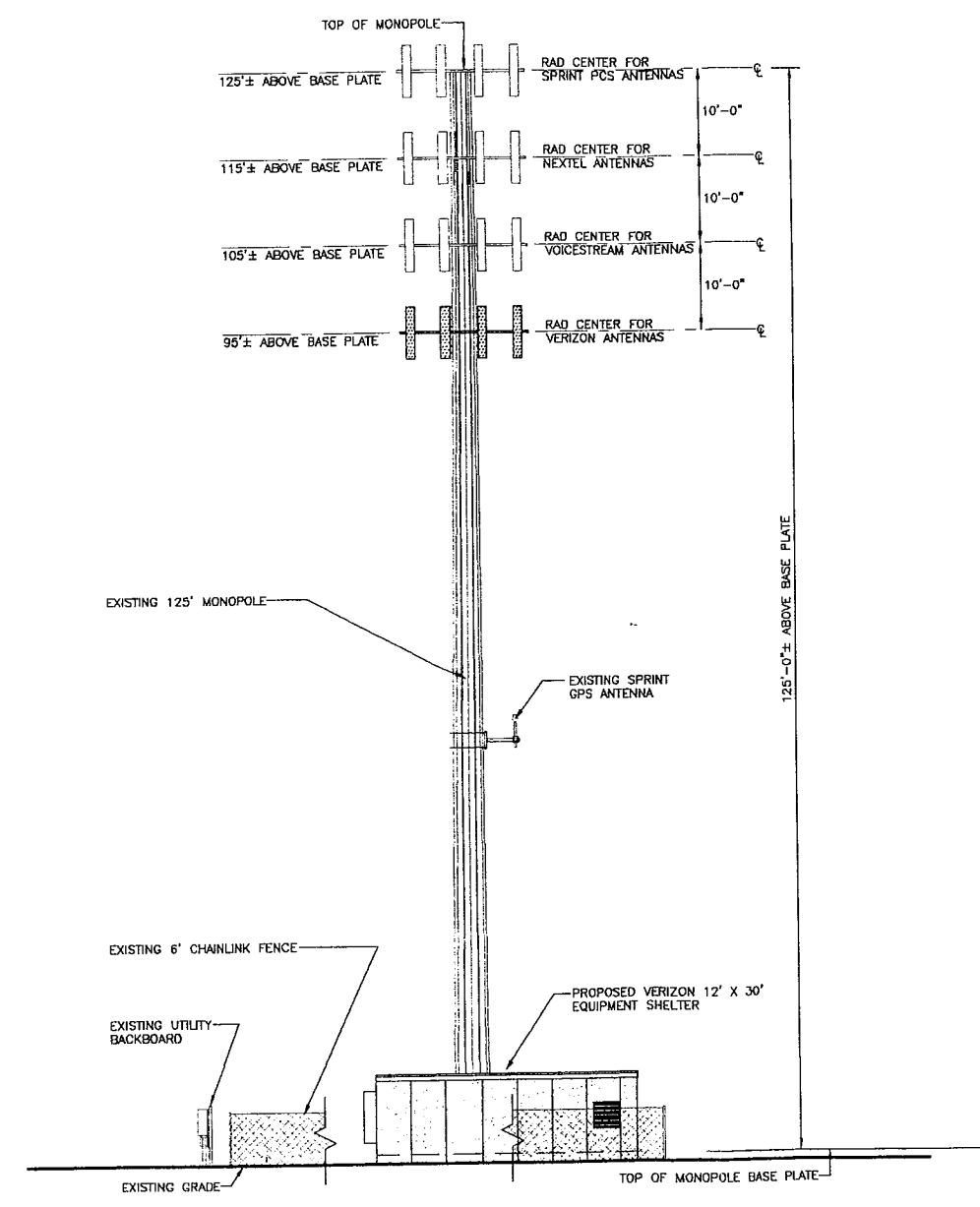
C-1
DWG. 2 OF 2



3 ANTENNA MOUNTING CONFIGURATION
C-1 NOT TO SCALE



1 COMPOUND PLAN
C-1 SCALE: 1/8"=1'-0"



2 ELEVATION
C-1 SCALE: 1"=10'-0"

422ASCC01.dwg 11-13-01 8:09:35 am EST



November 19th, 2001

Mr. Mark Gauger
Verizon Wireless
99-101 East River Road
East Hartford, CT 06002

Re: 1684 Chamberlain Highway,
Berlin, CT
Natcomm Proj. No. 422C

Dear Mark,

We have reviewed and evaluated the proposed Verizon antenna installation at the above referenced site. The purpose of the review is to determine the adequacy of an existing 125ft. monopole to support the proposed antennas. The review considered the effects of the wind load, dead load, ice load and seismic forces in accordance with TIA/EIA-222-F and Connecticut state building code. Structural design documents prepared by PAUL J. FORD AND COMPANY STRUCTURAL ENGINEERS - SUMMIT MANUFACTURING, LLC dated June 6, 2000 were used as reference material along with tower loading form furnished by Sprint file #100833.

The existing antenna configuration is as indicated on the design documents as follows:

- Sprint: Six (6) DB980H65E mounted on 14 ft. low profile platform at an elevation of 123 ft.
Three (3) DB980H90E mounted on 14 ft. low profile platform at an elevation of 123 ft.
- Nextel: Nine (9) DB844H90EE mounted on a 14 ft. low profile platform at an elevation of 115 ft.
- Voicestream: Six (6) EMS RR90-17-02DB mounted on a 14 ft. low profile platform at an elevation 105 ft.

The proposed additional antenna loading is as follows:

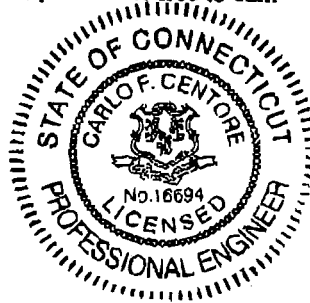
- Verizon: Twelve (12) DB844H80 mounted on 14 ft. low profile platform at an elevation of 95 ft.

Based on the design documents available and our evaluation the existing structure meets all the requirements per the TIA/EIA-222-F standards for a basic wind speed of 80mph with 1/2 inch radial ice.

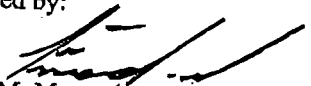
In conclusion, the existing 125 ft. monopole tower is adequate to support the proposed Verizon antennas. If there are any questions regarding this matter, please feel free to call.

Submitted by:


Carlo F. Centore, P.E.
Senior Project Manger



Prepared by:


Emad M. Mourad, P.E.
Structural Engineer