



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

FILE
COPY

October 9, 1997

Sharon Burrows
Project Director
Omnipoint Communications Inc.
1515 Summer Street, Fourth Floor
Stamford, CT 06905-5111

Re: Omnipoint Communications, Inc. notice of intent to modify an existing telecommunications facility located on 219 Nells Rock Road in Shelton, Connecticut.

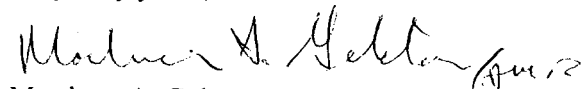
Dear Ms. Burrows:

At a public meeting held on October 8, 1997, the Connecticut Siting Council (Council) acknowledged your notice to modify an existing telecommunications facility in Shelton, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modification is to be implemented as specified in your notice dated September 17, and October 8, 1997. The modification is in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This change has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used and proposed for use 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 of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 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.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/FOC

c: Honorable Mark A. Lauretti, Mayor of Shelton

L:siting/em/omni/shelt/dc100897.dc



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

September 25, 1997

Honorable Mark A. Lauretti
Mayor of Shelton
54 Hill Street
P.O. Box 364
Shelton, CT 06484

RE: Omnipoint Communications, Inc. notice of intent to modify an existing telecommunications facility located at 219 Nells Rock Road in Shelton, Connecticut.

Dear Mayor Lauretti:

On September 18, 1997, the Connecticut Siting Council (Council) received a request from Omnipoint Communications, Inc. to modify an existing telecommunications facility located at 219 Nells Rock Road in Shelton, Connecticut, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for Wednesday, October 8, 1997, at 2:00 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 modification of an existing facility.

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/ss

Enclosure: Notice of Intent



OMNIPPOINT

COMMUNICATIONS, INC.

1515 SUMMER ST. 4TH FLOOR, STAMFORD CT 06905 - 5111

FAX/203/335-2380

September 17, 1997

RECEIVED

SEP 18 1997

CONNECTICUT
SITING COUNCIL

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
136 Main Street, Suite 401
New Britain, CT 06051

Dear Chairman Gelston,

Enclosed is a notice of intent to Modify and Exempt the telecommunications tower and associated equipment for facilities owned and operated by the Southern New England Telephone Company (SNET) on 219 Nells Rock Road Shelton, Connecticut.

The proposed modification can be generally described as the addition of a "cellular type" PCS antenna array for OmniPoint Communications, consisting of three (3) dual pole antennas and base station equipment. OmniPoint Communications holds the "A Block" 1900 MHz "Wideband" PCS license for the entire State of Connecticut. The Omnipoint PCS wireless service is a voice-data system which will provide paging, data and voice communications services.

The top of the proposed antennas will be below the top of the existing tower. No changes will be made to the tower structure. The base station equipment will be housed inside the existing equipment building.

The attached pages detail the required information for this location. As shown in the attachments, the proposed addition meets all the necessary criteria established in the Regulations of Connecticut State Agencies Section 16-50j-72 (b) (2), and is an exempt facility pursuant to Section 16-50j-73.

Please record me as the contact for OmniPoint Communications in this matter and in all correspondence from the Council, except technical questions which may be directed to Mike Clarson of RCC Consulting, ph 732-404-2467.

Thank you in advance for your cooperation.

Sincerely,

Sharon Burrows
Project Director
Omnipoint Communications Inc.

cc: The Honorable Mark A. Lauretti
Chandler Montgomery, SNET Real Estate
Jeff Randolph, Trammell Crow
Mike Clarson, RCC Consultants

Nell's Rock Road, Shelton, Connecticut

Pursuant to Section 16-50i (a) (5) of the Connecticut General Statutes and Section 16-50j-72 (b) (2), as amended, of the Regulations of Connecticut State Agencies, the Southern New England Telephone Company (SNET) hereby notifies the Connecticut Siting Council that it intends to modify an existing communications facility by permitting the installation of a Personal Communications Services (PCS) antenna system as specified below to an existing communications tower. This antenna will be owned, operated and maintained by Omnipoint Communications. Associated communications hardware will be located in SNET's existing shelter. The site is located off Nell's Rock Road in Shelton, Connecticut (C.S.C. site # 371).

Background

The proposed modifications are at the site of a self supporting 181 foot communications tower and one communications equipment shelter. Shelter and the tower are owned and operated by SNET. The tower was formally used as a microwave tower for SNET's telecommunications network, and is currently used as indicated on the power density chart, below.

Discussion

Existing microwave dish antennas will be removed and Omnipoint proposes to install 6 individual panel antennas (three transmit and three receive) configured as a three sector array. The highest point at the tip of the antennas will measure 140 feet above grade. Lowest point of this antenna will be at 133 feet. The power density this antenna contributes at this site is tabulated below. The purpose of this modification is to serve the public with Wideband PCS services. The make and model number of the proposed antennas are Celwave APN-199015-2T2 panels. The frequencies used are in the 1900 MHz PCS band.

Below is a power density chart which represents calculated existing and proposed non ionizing radiation levels. The levels shown indicate the total power density in milliwatts per square centimeter. These levels have been calculated at both the tower base, and at the site boundary.

<u>Service</u>	<u>Power Density @ Site Boundary mW/cm²</u>	<u>Power Density @ Tower Base mW/cm²</u>	<u>Top of Antenna Height</u>	<u>CT/ANSI Standard mW/cm²</u>	<u>% of Standard @Site Boundary</u>
SNET Mobility (Cellular)	0.0113	0.0115	167	.5667	2.80
Pagenet	.0169	.017	181	.6207	2.73
Sprint PCS (under construction)	0.032	0.0322	158	1.305	2.449
Omnipoint PCS (proposed)	0.0119	0.0120	140	1.287	0.928
Totals	0.0721	0.0727	----	----	8.907

The current Connecticut (and ANSI/IEEE) power density level standards, for non-ionizing radiation, are shown above. A ground reflection coefficient of 1.6 is used. The levels identified in this case are below the standards. These calculations conform to the procedures described by FCC OST Bulletin No. 65.

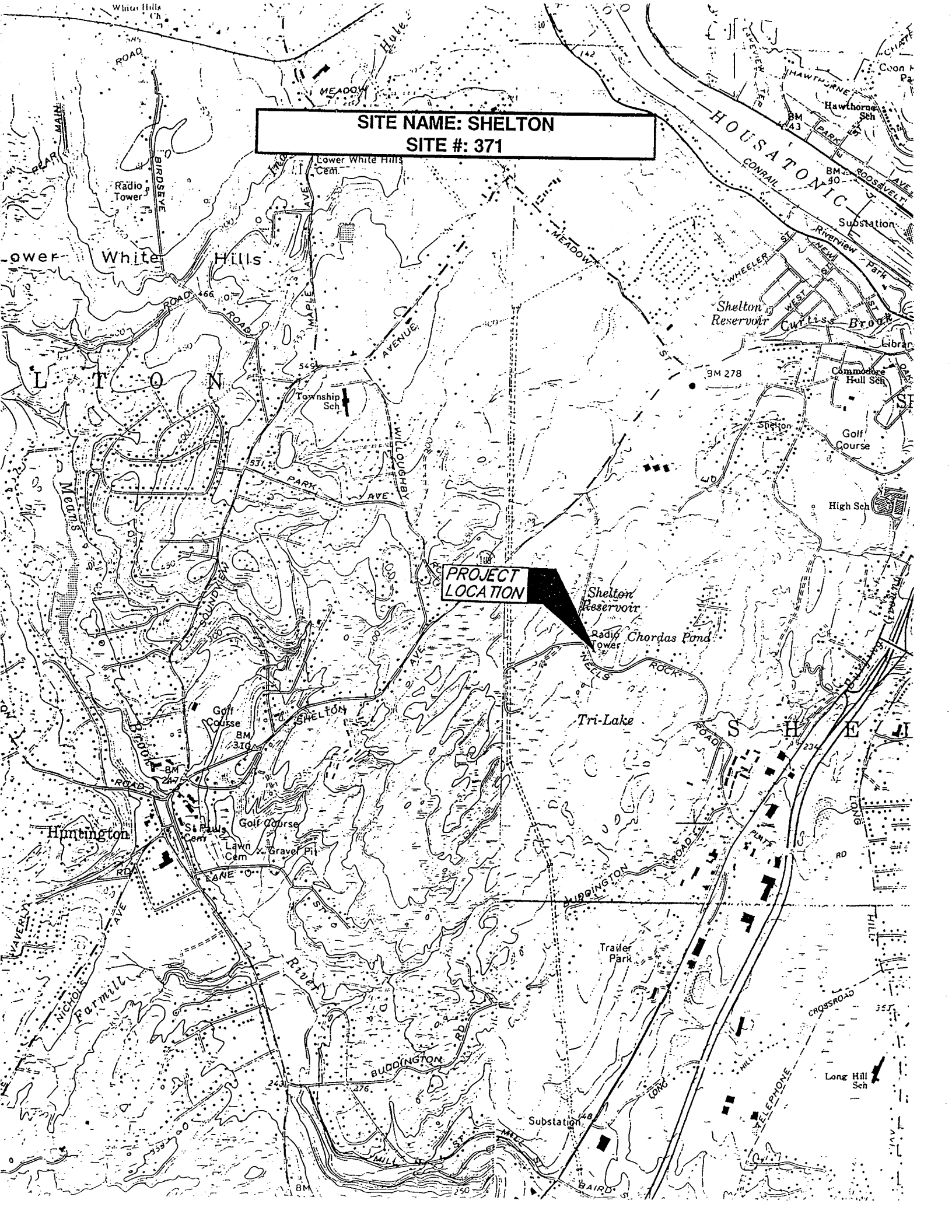
Conclusion

The proposed additions do not constitute a "modification" of an existing facility as defined in the Connecticut General Statutes Section 16-50i(d). There will be no change to the tower height or extension of the boundaries of the site. The tower is structurally sufficient to support the proposed antennas after existing dish antennas are removed. There will be no increase in noise levels at the site's boundary by six (6) decibels or more and the total radio frequency electromagnetic radiation is not at or above the standard set forth in Section 22(a)-162 of the Connecticut General Statutes. This addition will not have a substantially adverse environment effect.

For these reasons, SNET requests that the Council acknowledge that this Notice of Modification meets the Council's exemption criteria.

SITE NAME: SHELTON
SITE #: 371

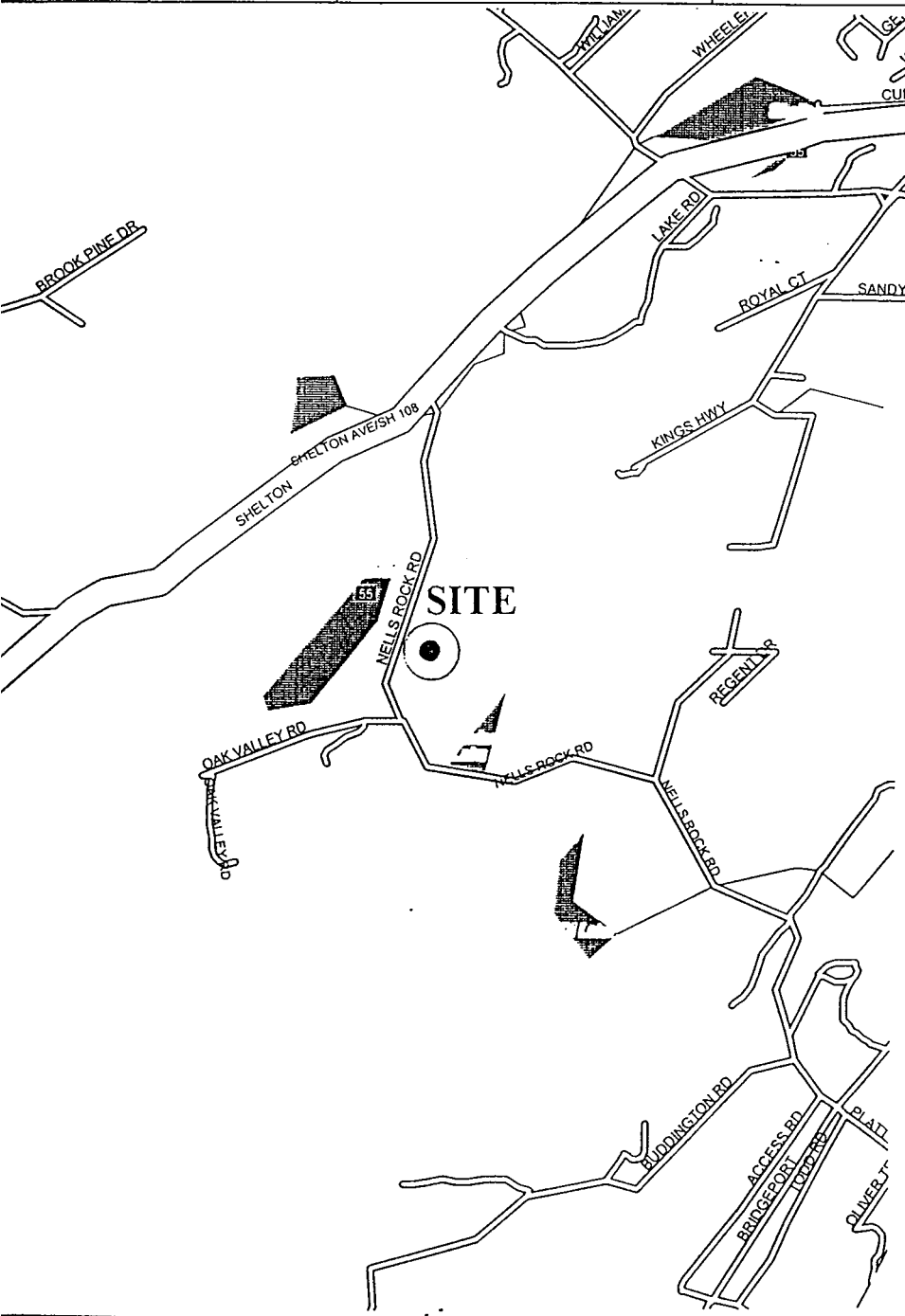
PROJECT LOCATION



SNET LANDLINE TOWER 219 NELLS ROCK ROAD SHELTON, CT

SEARCH AREA: **SHELTON**
SITE I.D. #: **CT-11-199-A**

LOT#: #	BLOCK#: #	ZONING DISTRICT: #	MAP#: #
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DWG.:	TITLE:
A-1	SITE LAYOUT
A-2	EQUIPMENT LAYOUT PLAN
A-3	ELEVATION
A-4	CABINET MOUNT DETAILS
A-5	CABLE MOUNT DETAILS
A-6	DEVICE MOUNT DETAIL
A-7	DEVICE/CABLE SCHEDULE
A-8	MATERIALS LIST
A-9	GENERAL NOTES
A-10	GENERAL NOTES
E-1	GENERAL INFORMATION
E-2	SERVICE PLAN
E-3	GROUNDING PLAN
E-4	RISER
E-5	GROUNDING DETAILS
E-6	GROUNDING DETAILS
E-7	DETAILS
E-8	DETAILS

DRAFT

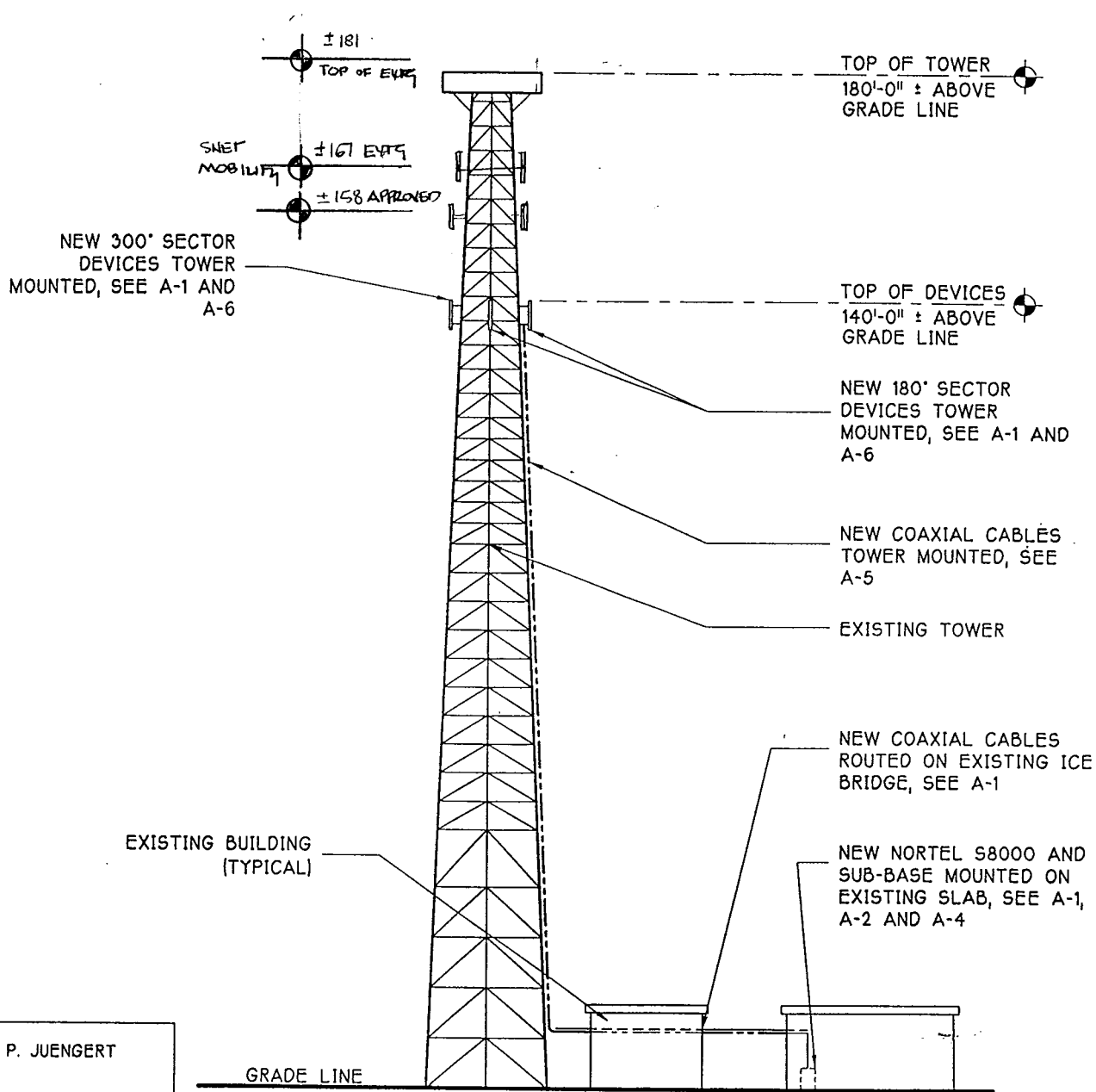
ARCNET PROJECT NO. A96.506.428A	PC JL	DATE 9/3/97
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 NORTH	SCALE: 1" = 500'
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670 North Beers Street, Building 2, Holmdel, NJ 07733
Tel: 908.739.3200 Fax: 908.739.0440

SITE LOCATION MAP



ROBERT P. JUENGERT

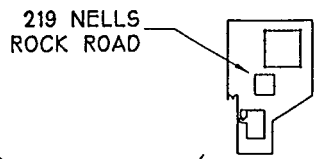
1 WEST ELEVATION
A-3 1" = 30'-0"

CT-04-208

<p>670 North Beers Street, Building 2, Holmdel, NJ 07733 Tel: 732.739.3200 Fax: 732.739.0440</p>	Drawing Title: ELEVATION		Project: SNET LANDLINE TOWER Address: 219 NELLS ROCK ROAD SHELTON, CT		Revision No. Date _____ _____ _____ _____ _____ _____	
	Client: OCS		Approved By: PROJ. MGR: _____ DATE: _____ R.F. ENGR: _____ DATE: _____ SAC: _____ DATE: _____ OWNER: _____ DATE: _____			
Search Area: SHELTON File ID No: CT-11-199-A	P.C.: JL	P.C. Chkd:	Chkd by:	ARCNET Project No: A96.506.428A	Drawn: AS Date: 9/3/97	Drawing No: A-3

DRAFT

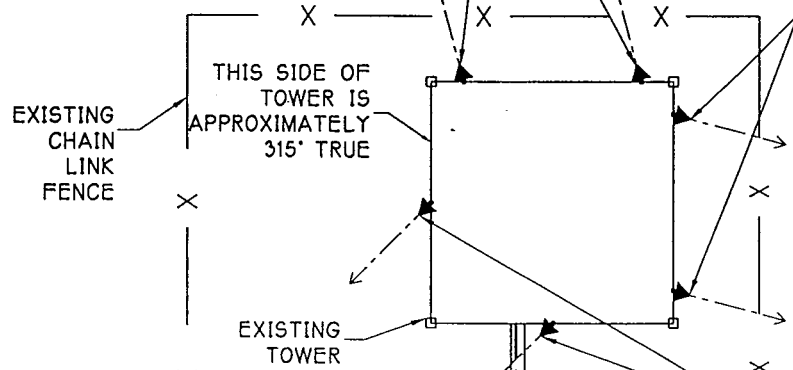
NOTE: TRUE NORTH DETERMINED BY MEASURING
MAGNETIC NORTH MINUS 15' FOR VARIATION



2 KEY MAP
A-1 NOT TO SCALE

NEW 300' SECTOR
DEVICES MOUNTED TO
EXISTING TOWER, SEE
A-3 AND A-6

NEW 60' SECTOR
DEVICES MOUNTED TO
EXISTING TOWER, SEE
A-3



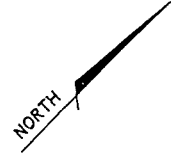
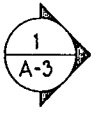
NEW 180' SECTOR
DEVICES MOUNTED TO
EXISTING TOWER, SEE
A-3 AND A-6

NEW COAXIAL CABLE
ROUTED ON EXISTING
ICE BRIDGE TO TOWER
THEN UP TO NEW
DEVICES

EXISTING ICE BRIDGE
(TYPICAL)

NEW NORTEL S8000 CABINET AND
SUB-BASE MOUNTED ON EXISTING
CONCRETE SLAB, SEE A-2, A-3 AND
A-4

NEW COAXIAL CABLES ROUTED UP
NEW CABLE LADDER, ALONG EXISTING
LADDER THEN THROUGH EXISTING
MICROFLECT PANEL IN WALL TO
EXISTING ICE BRIDGE, SEE A-3 AND
A-5



1 SITE LAYOUT
A-1 1" = 30'-0"

ROBERT P. JUENGERT

CT-04-208



670 North Beers Street, Building 2, Holmdel, NJ 07733
Tel: 732.739.3200 Fax: 732.739.0440

Drawing Title: **SITE LAYOUT PLAN**

Client: **OCS**

Project: **SNET LANDLINE TOWER**
Address: 219 NELLS ROCK ROAD
SHELTON, CT

Approved by:
PROJ. MGR: _____ DATE: _____
R.F. ENGR: _____ DATE: _____
SAC: _____ DATE: _____
OWNER: _____ DATE: _____

Revision No.	Date
Drawing No.	A-1

Search Area: SHELTON
Site ID No.: CT-11-199-A

P.C.: JL
P.C. Chkd.:
Chkd. by:

ARCNET Project No.: A96.506.428A
Drawn: AS
Date: 9/3/97

**RECEIVED**

OCT 08 1997

CONNECTICUT
SITING COUNCIL**FAX**

TO: FRED CUNLIFFE
FROM: MIKE CLARSON
DATE: 10/7/97

PAGES: 2

If you have not received all pages, please call 732-404-2400.

COMMENTS:

REVISED TABLE FOLLOWS FOR OMNIPONT
SHELTON CSC APPLICATION. THIS
REVISED SHEET CORRECTS TYPOGRAPHICAL
ERROR AS TO % DUE TO SNET MOBILITY
AND CLARIFIES USE OF GROUND
REFLECTION COEFFICIENT. THERE IS NO
MATERIAL CHANGE TO INFO CONTAINED IN
APPLICATION — *Michael J. Clarkson*

RCC Consultants, Inc.

100 Woodbridge Center Drive • Suite 201 • Woodbridge, New Jersey 07095-1125 • tel (732) 404-2400 • fax (732) 404-2556

Nell's Rock Road, Shelton, Connecticut

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Omnipoint PCS (proposed)	0.0119	0.0120	140	1.287	0.928
Totals	0.0721	0.0727	—	—	8.107

The current Connecticut (and ANSI/IEEE) power density level standards, for non-ionizing radiation, are shown above. In addition to the 100% near surface reflection assumption built into our calculation, an additional ground reflection coefficient of 1.6 is used. The levels identified in this case are below the standards. These calculations conform to the procedures described by FCC OST Bulletin No. 65.

Conclusion

The proposed additions do not constitute a "modification" of an existing facility as defined in the Connecticut General Statutes Section 16-50i(d). There will be no change to the tower height or extension of the boundaries of the site. The tower is structurally sufficient to support the proposed antennas after existing dish antennas are removed. There will be no increase in noise levels at the site's boundary by six (6) decibels or more and the total radio frequency electromagnetic radiation is not at or above the standard set forth in Section 22(a)-162 of the Connecticut General Statutes. This addition will not have a substantially adverse environment effect.

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