



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

December 13, 1999

Sandy M. Carter, Manager – Regulatory
Bell Atlantic NYNEX Mobile
20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492

RE: EM-BAM-086-991124 - Bell Atlantic Mobile notice of intent to modify an existing telecommunications tower located at 71 Moxley Hill Road in Montville, Connecticut.

Dear Ms. Carter:

At a public meeting held on December 8, 1999, the Connecticut Siting Council (Council) ruled that the proposed use of this existing tower would not cause a significant change or alteration in the physical and environmental characteristics of the site, and pursuant to Section 16-50j-72 (c) of the Regulations of Connecticut State Agencies would constitute a regulatory exemption.

The proposed modifications are to be implemented as specified here, in your notice dated November 24, 1999, and in additional information dated December 1, 1999. The modifications are in compliance with the exception criteria in Section 16-50j-72 (c) of the Regulations of Connecticut State Agencies as changes to an existing non-facility tower that have received all municipal zoning approvals and building permits and that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels or more, 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 tower 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 tower 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/SLL/sll

cc: Honorable Howard R. Beetham, Mayor, Town of Montville
Steve Kotfila, Site Development Manager, Sprint PCS
Ronald C. Clark, Manager – Regulatory, Nextel Communications, Inc.
J. Brendan Sharkey, Esq., Omnipoint Communications, Inc.

Ⓜ Bell Atlantic Mobile

20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492-2430
203-269-8858

December 1, 1999

HAND DELIVERED

Mr. Steve Levine, Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: Bell Atlantic Mobile – Uncasville Cell Site

Dear Mr. Levine:

As per our recent phone conversation, I am submitting revised copies of our site plan for the above noted cell site application. The revised plans indicate the existing location of the guyed wires attached to the existing tower. This location is the same as the structural analysis plan which was submitted with the original application on November 24, 1999. The initial plans showed a representation of the guyed wires and were not meant to indicate the exact location of the wires. I trust these plans will clarify any confusion of these locations.

Thank you for your time and consideration on this matter.

Very truly yours,

Sandy M. Carter

Sandy M. Carter
Manager – Regulatory
Bell Atlantic Mobile

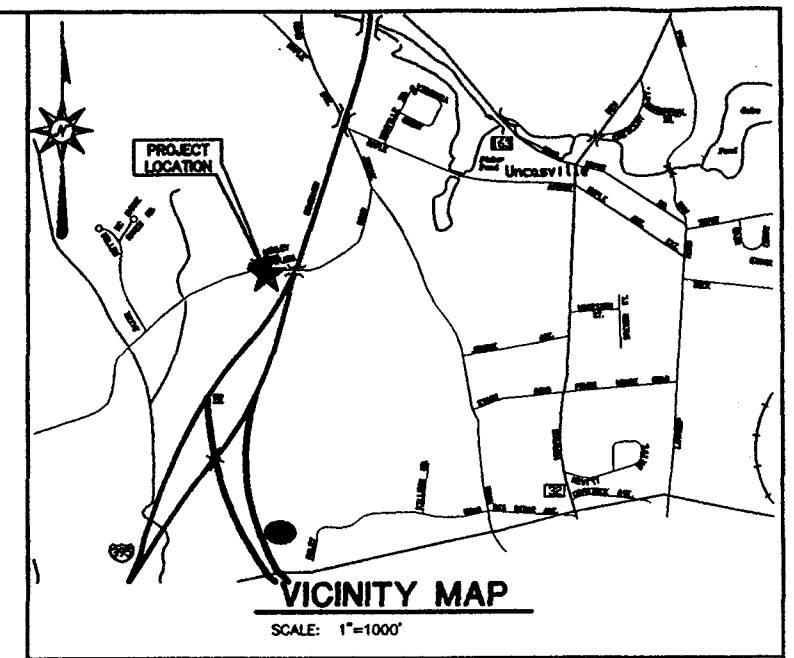
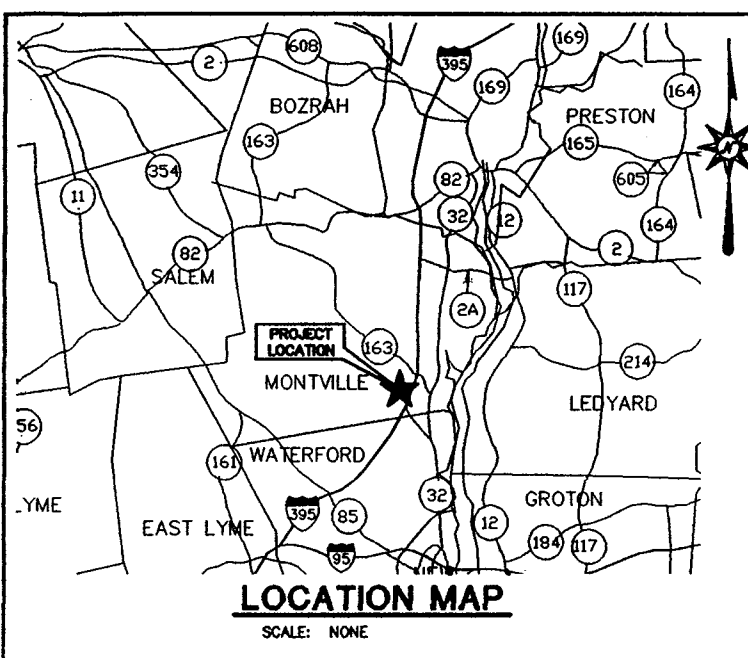


RECEIVED

DEC 02 1999

CONNECTICUT
SITING COUNCIL

Attachments



SITING COUNCIL SUBMISSION

UNCASVILLE

TELECOMMUNICATION FACILITY

71 MOXLEY ROAD
MONTVILLE, CONNECTICUT

PREPARED FOR:
BELL ATLANTIC MOBILE
20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

CONTENTS

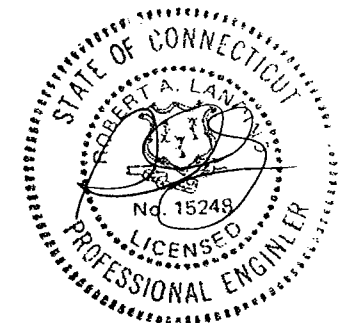
TITLE SHEET
9C-1 SITE PLAN AND ELEVATION

PREPARED BY:



ARCHITECTURE ENGINEERING PLANNING LANDSCAPE ARCHITECTURE
LAND SURVEYING ENVIRONMENTAL SCIENCES ANALYTICAL SERVICES

355 RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450
(203) 630-1406
(203) 630-2615 Fax



DATES

ISSUE DATE: NOVEMBER 22, 1999
REVISION:

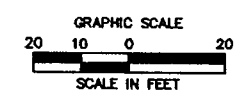
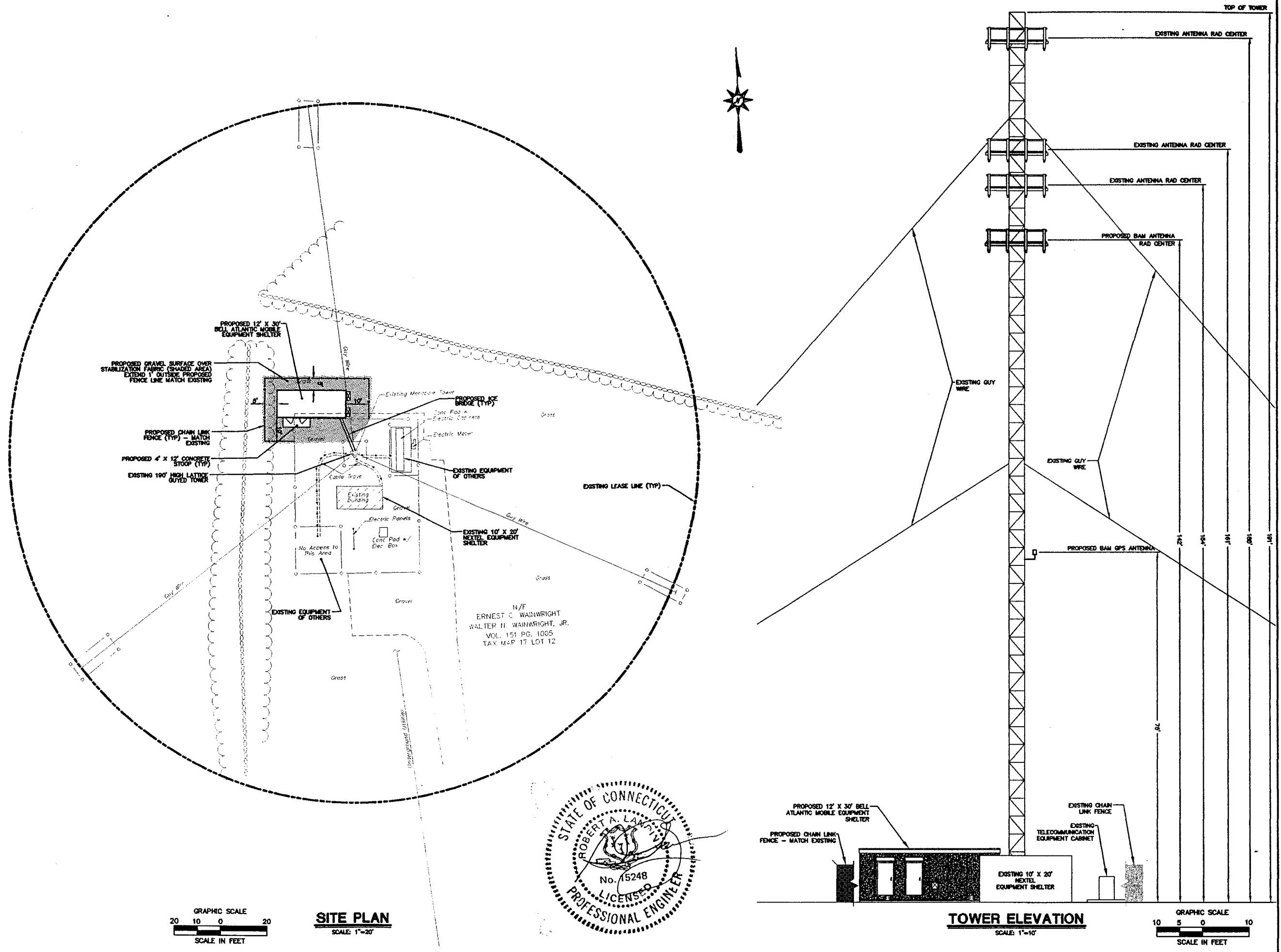


BL Companies

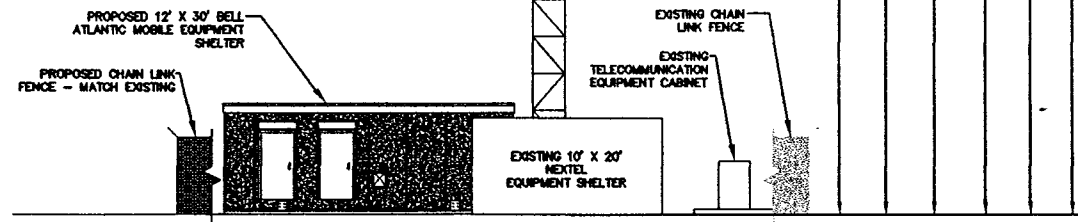
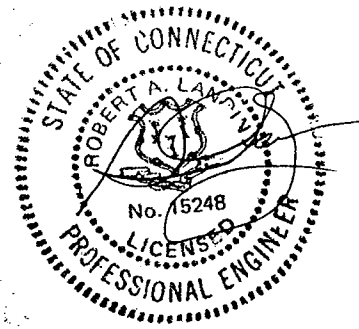
ARCHITECTURE
ENGINEERING
PLANNING
LANDSCAPE ARCHITECTURE
LAND SURVEYING
ENVIRONMENTAL SCIENCES
ANALYTICAL SERVICES

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

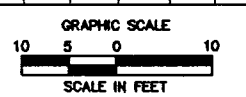
SITE PLAN AND ELEVATION
UNCASVILLE TELECOMMUNICATION FACILITY
MONTVILLE, NEW LONDON COUNTY, CONNECTICUT



SITE PLAN
SCALE: 1"=20'



TOWER ELEVATION
SCALE: 1"=10'



REVISIONS	
No.	Date

Designed	R.C.B.
Drawn	R.C.B.
Checked	S.N.
Approved	R.A.L.
Scale	AS SHOWN
Project No.	99C536
Date	11/22/99
CAD File	SCC53601

Sheet No.

SC-1

THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

November 30, 1999

Honorable Howard R. Beetham
Mayor
Town of Montville
Town Hall
310 Norwich-New London Turnpike
Uncasville, CT 06382

RE: **EM-BAM-086-991124** - Bell Atlantic Mobile notice of intent to modify an existing telecommunications tower located at 71 Moxley Hill Road in Montville, Connecticut.

Dear Mayor Beetham:

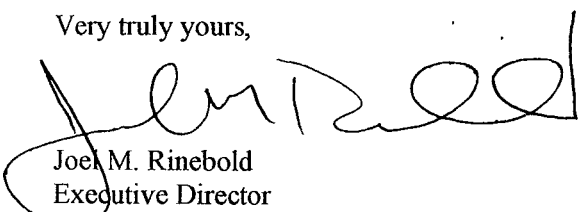
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications tower, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for Wednesday, December 8, 1999, at 1:30 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.

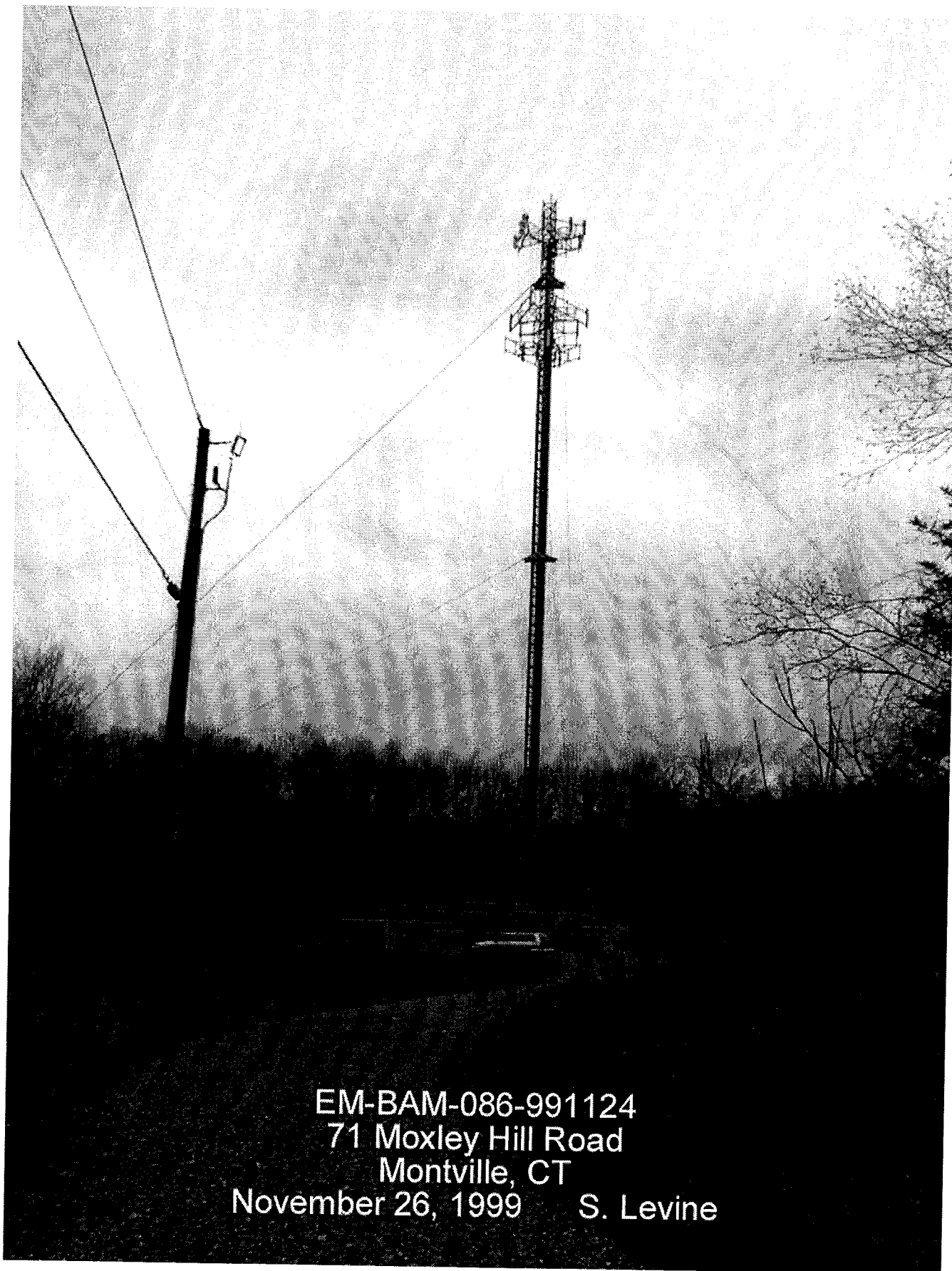
Very truly yours,



Joe M. Rinebold
Executive Director

JMR/jlh

Enclosure: Notice of Intent



EM-BAM-086-991124
71 Moxley Hill Road
Montville, CT
November 26, 1999 S. Levine

© Bell Atlantic Mobile

20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492-2430
203-269-8858

RECEIVED

NOV 24 1999



November 24, 1999

HAND DELIVERED

**CONNECTICUT
SITING COUNCIL**

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

Re: Bell Atlantic Mobile – Uncasville Cell Site

Dear Mr. Gelston:

Cellco Partnership d/b/a Bell Atlantic Mobile (the "Company") plans to install cellular antennas and related equipment at the tower facility in Uncasville (Montville) owned by Wireless Solutions LTD of Old Lyme, Connecticut. Please accept this letter as notice of intent, pursuant to R.C.S.A. Section 16-50j-73, of the placement of associated equipment on an existing non-facility tower pursuant to R.C.S.A. Section 16-60j-72(c). In further compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the Mayor of Montville.

The existing non-facility tower is 190' steel-guyed tower located at 71 Moxley Hill Road, Montville, Connecticut. The guyed tower supports several Nextel, Sprint and Omnipoint antennas, which provide mobile communications service to the public pursuant to a FCC license. The Company plans to install twelve panel-type cellular antennas and one G.P.S. antenna on the tower. The Company will also install a single story, approximately 12' x 30' equipment building which will contain radio transmission equipment. In addition, Bell Atlantic Mobile will install a diesel generator for emergency use. The generator will be installed following receipt of the required DEP permit.

The addition of Bell Atlantic Mobile's antennas and equipment to the tower site does not constitute a substantial environmental affect since such additions do not cause a significant change or alteration in the physical and environmental characteristics of the site (see attached site plan). Rather, the planned changes to the existing non-facility tower falls squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72 (c).

First, the height of the existing tower will be unaffected. Twelve antennas, Model Allgon 7129.16 will be mounted, four per sector on a triangular platform to be attached to the tower. The center of radiation will be 142' AGL. The G.P.S. antenna will be mounted from the tower. The tower will not require any structural modification to support the proposed attachments. A copy of the structural design is attached to this application.

Second, the proposed addition will not extend the site boundaries. The proposed equipment building will be located at the base of the tower within the tower compound area on a parcel of land which will be leased to Bell Atlantic Mobile (see attached site plan).

Bell Atlantic Mobile will relocate the existing fence within the facility compound leased by Mr. Ken Thomas, but will not extend the total compound site boundary. The total compound site boundary consists of a 150' circumference around the base of the tower.

Third, the proposed addition will not increase the noise levels at the existing compound facility by six decibels or more.

Fourth, operation of the antennas will not increase the total frequency electromagnetic radiation power density, measured at the tower base, to a level at or above the applicable ANSI standards. "Worst-case" exposure calculations for a point at the base of the tower in relation to operation of each of BAM's, Nextel's, Sprint's and Omnipoint's antenna arrays are as follows:

	<u>Applicable ANSI Stnd</u>	<u>Calculated "Worst-Case"</u>	<u>Percentage of Stnd</u>
BAM	0.583 mW/cm ²	0.0348 mW/cm ²	5.98%
Nextel	0.5673 mW/cm ²	0.0094 mW/cm ²	1.65%
Sprint	1.000 mW/cm ²	0.0186 mW/cm ²	1.86%
Omnipoint	1.000 mW/cm ²	0.0148 mW/cm ²	<u>1.48%</u>
		Total	10.97%

The collective "worst-case" exposure would be only 10.97% of the ANSI standard, as calculated for mixed frequency sites. Power density levels from shared use of the tower facility would thus be well below applicable ANSI standards.

Finally, the owner of the tower, Wireless Solutions LTD. has received the necessary municipal approvals and permits for the project including a 190' tower and equipment outbuildings for a multi-carrier site. In addition, BAM has received a zoning permit for its installation at this site. (see attached permits).

For the foregoing reasons, Bell Atlantic Mobile seeks a ruling that its proposed additions to the non-facility tower would not cause a significant change or alteration in the physical and environmental characteristics of the site pursuant to R.C.S.A. Section 16-50j-72 (c)(1). The Company further submits that the changes comply with R.C.S.A. Section 16-50j-72 (c), (2) through (5) and therefore request a determination that the placement of the antennas and equipment on the existing non-facility tower site does not constitute a substantial environmental effect under R.C.S.A. Section 16-50j-72 (c).

Mr. Mortimer A. Gelston
November 24, 1999
Page 3

Thank you for the consideration of this matter.

Pursuant to Connecticut General Statutes Sec. 16-50v-1(a) of the Regulations of Connecticut State Agencies, BAM has enclosed a check in the amount of \$500.00 for the required filing fee.

Very truly yours,

Sandy M. Carter

Sandy M. Carter
Manager – Regulatory
Bell Atlantic Mobile

Attachments

cc: Honorable Howard R. Beetham, Town of Montville

© Bell Atlantic Mobile

20 Alexander Drive
P.O. Box 5029
Wallingford, CT 06492-2430
203-269-8858



November 24, 199

Honorable Howard R. Beetham, Mayor
Town Hall
310 Norwich-New London Road
Montville, Connecticut 06382

Dear Mr. Beetham:

This letter is to inform you that Cellco Partnership d/b/a Bell Atlantic Mobile ("BAM") plans to install antennas and associated equipment at the existing tower facility located at 71 Moxley Hill Road, Montville, Connecticut. As required by Section 16-50j-73 of the Regulations of the Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council as notice on intent of the placement of the associated equipment on an existing non-facility tower pursuant to R.C.S.A. Section 16-50j-72(c).

The attached letter fully sets forth the Company's proposal. However, if you have any questions or require any further information on the plans for this site or the Siting Council's procedures, please contact the undersigned at (203) 294-8519 or Mr. Joel Rinebold, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Sandy M. Carter

Sandy M. Carter
Manager - Regulatory
Bell Atlantic Mobile

Enclosure

ZONING PERMIT

ZONING PERMIT NUMBER 99-252 OR N/A

EXPIRATION DATE 11-8-2000

PROPERTY LOCATION 71 Moxley Hill Road

MAP 017 LOT 012-000

PROPERTY OWNER Walter + Ernest Wainwright

CONTRACTOR Bell Atlantic Mobile

CONTRACTOR LICENSE # _____

CONTACT ADDRESS 20 Alexander Drive, Wallingford, Ct. 06492 TELEPHONE 203 294-8519

ZONE LI

LOT AREA 14+ acres

PERMIT REQUEST To co-locate antennas on existing tower and place 20x30 equipment building at base of tower for cellular telecommunication's facility

IT IS THE APPLICANT'S RESPONSIBILITY TO FURNISH THE FOLLOWING INFORMATION:

A SKETCH, OR PROVIDE TWO COPIES OF PLANS DRAWN TO A SCALE OF AT LEAST 1" = 40' SHOWING: DIMENSIONS OF THE LOT, THE SIZE, AREA, AND LOCATION OF EXISTING, PROPOSED, PRINCIPAL AND ACCESSORY STRUCTURES, DRIVEWAYS, SANITARY FACILITIES AND WATER SUPPLY, PARKING FACILITIES, AND ADJACENT STREETS; DISTANCES OF PROPOSED STRUCTURES FROM PROPERTY LINES AND WETLANDS. A PLAN PREPARED BY A CONNECTICUT REGISTERED LAND SURVEYOR MAY BE REQUIRED. THE PROPOSED USE SPECIFIED ABOVE SHALL NOT BE AUTHORIZED UNTIL AN ACTUAL CERTIFICATE OF COMPLIANCE IS ISSUED BY THE COMMISSION OR ITS APPOINTED AGENTS.

SKETCH PLAN OR GRADING PLAN

YES N/A *on file*

HEALTH DISTRICT APPROVAL

YES N/A

STATE HIGHWAY PERMIT

YES N/A

WETLANDS PERMIT

YES N/A

HAS A VARIANCE EVER BEEN GRANTED FOR THIS PROPERTY

YES NO

HAS BOND BEEN FILED

YES N/A

FEE

CASH CHECK # N/A

THE APPLICANT IS RESPONSIBLE FOR AND AGREES TO:

1. ADHERE TO ALL THE APPLICABLE REQUIREMENTS OF THE ZONING REGULATIONS.
2. FURNISH ALL NECESSARY INFORMATION AND DOCUMENTATION TO PROCESS APPLICATION.
3. NOTIFY THE COMMISSION OR ITS APPOINTED AGENT OF ANY ALTERATION IN THE PLANS.
4. CALL FOR FINAL INSPECTION AND REQUEST CERTIFICATE OF COMPLIANCE BEFORE ISSUANCE OF C. O.

APPLICANT'S SIGNATURE Sandy M. Carter, Regulatory Mgr. DATE: 11/8/99

Thomas E. Sanders 11/8/99
COMMISSION AGENT DATE

CERTIFICATE OF COMPLIANCE DATE

THIS SIGNED PERMIT AUTHORIZES THE APPLICANT TO PROCEED TO THE BUILDING DEPARTMENT FOR ANY REQUIRED PERMITS

CONTACT THE ZONING OFFICER (848-8549) AT LEAST 24 HOURS BEFORE CONSTRUCTION BEGINS TO ALLOW ZONING OFFICER TO INSPECT LOCATION.

Zoning PERMIT REVIEW

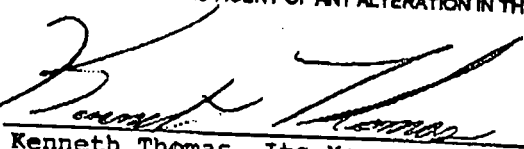
APPLICANT Wireless Solutions, LLC
 APPLICANT'S ADDRESS P.O.Box 284, Old Lyme, CT 06371 TELEPHONE (860) 484-6363
 PROPERTY OWNER Walter and Ernest Wainwright
 LOCATION 71 Moxley Hill Road
 ASSESSOR'S MAP NUMBER 017 LOT AREA 14± acres ZONE LI
 LOT NUMBER 012-000
 BUILDING HEIGHT 14'; Tower 190' PROPOSED FLOOR AREA 4 Buildings, 840 S.F. Total of all Buildings
 NATURE OF REQUEST/PROPOSED USE Radio tower for wireless communications with outbuildings.

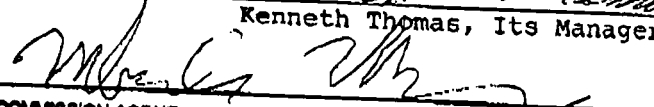
SKETCH ON REVERSE OR PROVIDE TWO COPIES OF PLANS DRAWN TO A SCALE OF AT LEAST 1" = 40' SHOWING: DIMENSIONS OF THE LOT, THE SIZE, AREA, AND LOCATION OF EXISTING, PROPOSED, PRINCIPAL AND ACCESSORY STRUCTURES, DRIVEWAYS, SANITARY FACILITIES AND WATER SUPPLY, PARKING FACILITIES, AND ADJACENT STREETS; DISTANCES OF PROPOSED STRUCTURES FROM PROPERTY LINES. IN THE CASE OF FILL OR EXCAVATION REQUESTS (UNDER 500 CUBIC YARDS), DIMENSIONS OF FILL OR EXCAVATION AREA MUST BE INCLUDED. A PLAN PREPARED BY A CONNECTICUT REGISTERED LAND SURVEYOR MAY BE REQUIRED. THE PROPOSED USE SPECIFIED ABOVE SHALL NOT BE AUTHORIZED UNTIL AN ACTUAL CERTIFICATE OF COMPLIANCE IS ISSUED BY THE COMMISSION OR ITS APPOINTED AGENTS.

- SKETCH PLAN OR GRADING PLAN YES N/A
- SEPTIC PERMIT YES N/A
- STATE HIGHWAY PERMIT YES N/A
- WETLANDS PERMIT YES N/A
- HAS A VARIANCE EVER BEEN GRANTED FOR THIS PROPERTY YES NO
- HAS BOND BEEN FILED YES N/A
- FEE PAID CASH CHECK # N/A

NO ZONING PERMIT REQUIRED

- THE APPLICANT AGREES TO:
- ADHERE TO ALL THE APPLICABLE REQUIREMENTS OF THE ZONING REGULATIONS.
 - NOTIFY THE COMMISSION OR ITS APPOINTED AGENT OF ANY ALTERATION IN THE PLANS.

APPLICANT'S SIGNATURE  DATE: _____
 Kenneth Thomas, Its Manager

COMMISSION AGENT  DATE _____

THIS SIGNED PERMIT AUTHORIZES THE APPLICANT TO PROCEED TO ANY OTHER APPLICABLE DEPARTMENTS.

FORM NO. 1000 (REV. 1-78)
BUILDING DEPARTMENT
HARTFORD, CONNECTICUT

REVISIONS TO THE PERMIT OF CONSTRUCTION PERMIT

Permit No. **13735** Approval Date: **1-30-98** Expiration Date: **7-30-98**

Estimate No. Fees: Pop: **c.o.; 25.00**

Owner: **Ken Thomas** Address: **11 Dell AVE** Tel:

Job location: **91 Maxley Hill** Code:

City: **NorthEast Towers** County: **FARMINGTON, CT** Tel: **173-6694**

Single story Multiple stories Commercial **Tower**

additions Garage Car Port Sited Remodeling Roofing

Windows Sidelights Chimney Stairs Pool Demolition

Structural Heating Electrical Air Conditioning Gas

Other Use Retaining Wall **Mobile/Replacement:**

Area of material used/description: **190' Radio Tower**

Site Type of fuel Fire alarm

No. of stories No. Rooms Greenway

No. units Garage Use

I hereby certify that the proposed work will conform to the Basic Building Code and all other codes as adopted by the State of Connecticut, and the City of Northville.

Applicant's Signature: **K. Thomas ASST.** Date: **1-30-98**

If signed by Contractor, type of license/registration & No: **00373**

Building official's Signature: **Russell H. Huffer** Date: **1-30-98**

Date of Health Dept. Approval: **N/A**

Date of zoning approval: **OK**

NOTES: (5) THE INDEMNITY THAT UNDER THE CONNECTICUT PROVISIONS OF THE BUILDING CODE, SECTION 1-112, A CERTIFICATE OF OCCUPANCY IS REQUIRED PRIOR TO AN OCCUPANCY OF THE STRUCTURE.
(6) A PERMIT OF RAILROAD NOTICE OF THE BUILDING DEPARTMENT IS REQUIRED FOR THE PROJECT.

WIRELESS SOLUTIONS LTD.

Ken Thomas
P.O. Box 284
Old Lyme, CT 06371
Office (860) 434-6363
Fax (860) 434-3677

November 17, 1999

Ms. Sandy Carter
Bell Atlantic Mobile
20 Alexander Drive
Wallingford, CT 06492

Re: Existing Tower Facility
71 Moxley Road
Montville, CT 06382

Dear Ms. Carter:

Please be advised that Bell Atlantic Mobile is authorized to proceed in seeking Connecticut Siting Council approval for the above reference tower site owned by Wireless Solutions LLC located at 71 Moxley Road in Montville Connecticut.

Sincerely,

Ken Thomas 11-17-99

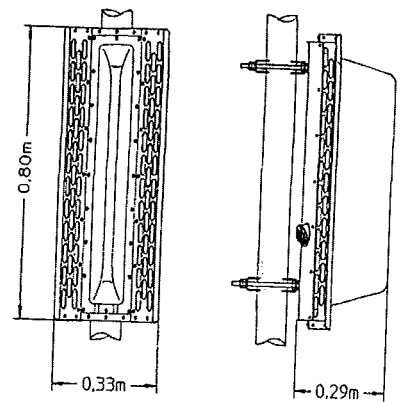
Ken Thomas
Wireless Solutions LLC



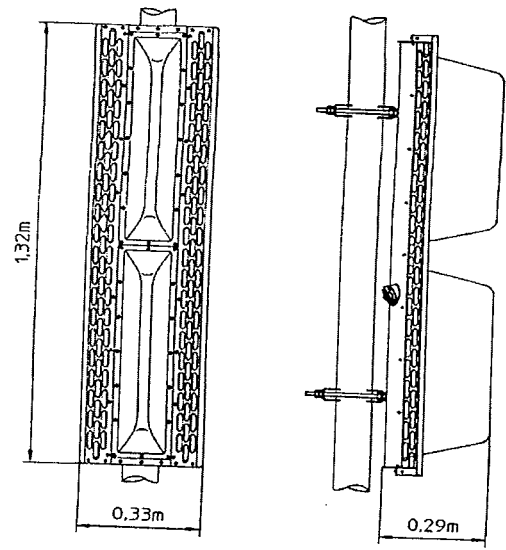
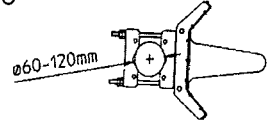
Electrical Specifications	7129.20	7129.16
Polarization	linear, vertical	linear, vertical
Gain dBd (dBi)	11 (13)	13 (15)
Horizontal -3dB beamwidth	85°	85°
Front-to-back ratio	>30 dB	>30 dB
Vertical -3dB beamwidth	25°	15°
Electrical Downtilt	0	0
Nominal Impedance	50 ohm	50 ohm
VSWR	<1.5:1	<1.5:1
Maximum input power	500W	500 W
Intermodulation products(2Tx@20 W)	<-103 dBm	<-103 dBm

Mechanical Specifications	7129.20	7129.16
Height	31.5" (.8m)	52" (1.32m)
Width	13" (.33m)	13" (.33m)
Depth	11.4" (.29m)	11.4" (.29m)
Weight	12.1 lb (5.1 kg)	17.4 lb (7.9kg)
Survival wind speed	156 mph (70m/s)	156 mph (70m/s)
Maximum wind area	2.7 sq ft (.25 sq m)	4.5 sq ft (.42 sq m)
Max. wind load @ 100 mph (C=1)	44 lbf. (194N)	73 lbf. (326N)

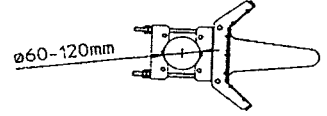
Allgon Log Periodic 85°



7129.20



7129.16



Part Number Guide:
 ex: 7129.14.XX.00 — **Electrical Downtilt**

Type of Connector
.05 - N Connector
.22 - E Connector
.33 - 7/16 DIN Connector

INFORMATION:
 Call 1-888-Allgon 1

Federal Aviation Administration
New England Region
12 New England Executive Park
Burlington, MA 01803-5299

WIRELESS SOLUTIONS
P.O. BOX 284
OLD LYME, CT 06371

AERONAUTICAL STUDY
No: 98-ANE-0520-OE
Date: 09/03/98

Type Structure: ANT/TWR

This acknowledges receipt of your Notice of Proposed Construction
or Alteration dated 08/25/98.

An aeronautical study will be conducted on the following location:

CITY	STATE	NAD-83	LATITUDE/LONGITUDE	MSL	AGL	AMSL
NEW LONDON	CT	41-26-01.25	072-07-00.27	200	190	390

Your proposal has been assigned Aeronautical Study Number 98-ANE-0520-OE.
These are NAD-83 coordinates. Please use the NAD-83 coordinates on all
future correspondence. Should there be any question concerning this
proposal, please feel free to contact Suzanne Dempsey of the
Airspace Branch, ANE-520, New England Region
Our office telephone number is (781) 238-7520.

Thank you for participating in the Obstruction Evaluation program.

UNR-ROHN.

Division of UNR Industries, Inc.

6718 W. Plank Road, P.O. Box 2000, Peoria, Illinois 61656 USA

Phone: (309) 697-4400

FAX: (309) 697-5612

PURCHASER: WIRELESS SOLUTIONS

NAME OF PROJECT: WATERFORD, NEW LONDON COUNTY
CONNECTICUT
190 FT. MODEL 80 TOWER
MOXLEY ROAD UNCASVILLE

UNR-ROHN FILE NUMBER: 37183AE001

UNR-ROHN DRAWING NUMBERS: B981620

I CERTIFY THAT THE DESIGN OF THE REFERENCED TOWER WAS PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE LOADING AND SOIL CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF CONNECTICUT.

THE REFERENCED FOUNDATIONS ARE STANDARD FOUNDATIONS DESIGNED IN ACCORDANCE WITH ANSI/EIA-222-F NORMAL SOIL PARAMETERS. STANDARD FOUNDATIONS SHOULD NOT BE RELIED UPON FOR THE REFERENCED SITE WITHOUT COMPETENT PROFESSIONAL EXAMINATION AND VERIFICATION OF THEIR SUITABILITY BASED ON THE SUBSURFACE CONDITIONS EXISTING AT THE SITE.

CERTIFIED BY: *Thomas W. ...*

DATE: *4-14-98*



PLAN VIEW

DESIGN WIND LOAD PER ANSI/TIA/EIA-222-F (1989);
 TOWER DESIGN WIND SPEED IS 110 MPH;
 TOWER TO BE DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT.)	ANTENNA TYPE	E.P.A. (SF) NO. ICE W/ICE	L/SI (A)
TOP	(4) JRDZD ANTENNAS & (12) SR-100R-9 ANTENNAS W/15' MOUNTING FRAMES	128.0 (TOTAL)	(161) (70)
180	(4) JRDZD ANTENNAS & (12) SR-100R-9 ANTENNAS W/15' MOUNTING FRAMES	128.0 (TOTAL)	(161) (70)
170	(3) 15' STD DISHES (0), (120) & (240)	92.0 (TOTAL)	(37) (10)
140	(4) JRDZD ANTENNAS & (12) SR-100R-9 ANTENNAS W/15' MOUNTING FRAMES	128.0 (TOTAL)	(161) (70)
120	(4) JRDZD ANTENNAS & (12) SR-100R-9 ANTENNAS W/15' MOUNTING FRAMES	128.0 (TOTAL)	(161) (70)

NOTE: ANTENNA AZIMUTH IS SHOWN IN DEGREES WITHIN THE [BRACKETS]
 SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON TOWER

TORQUE ARM SCHEDULE

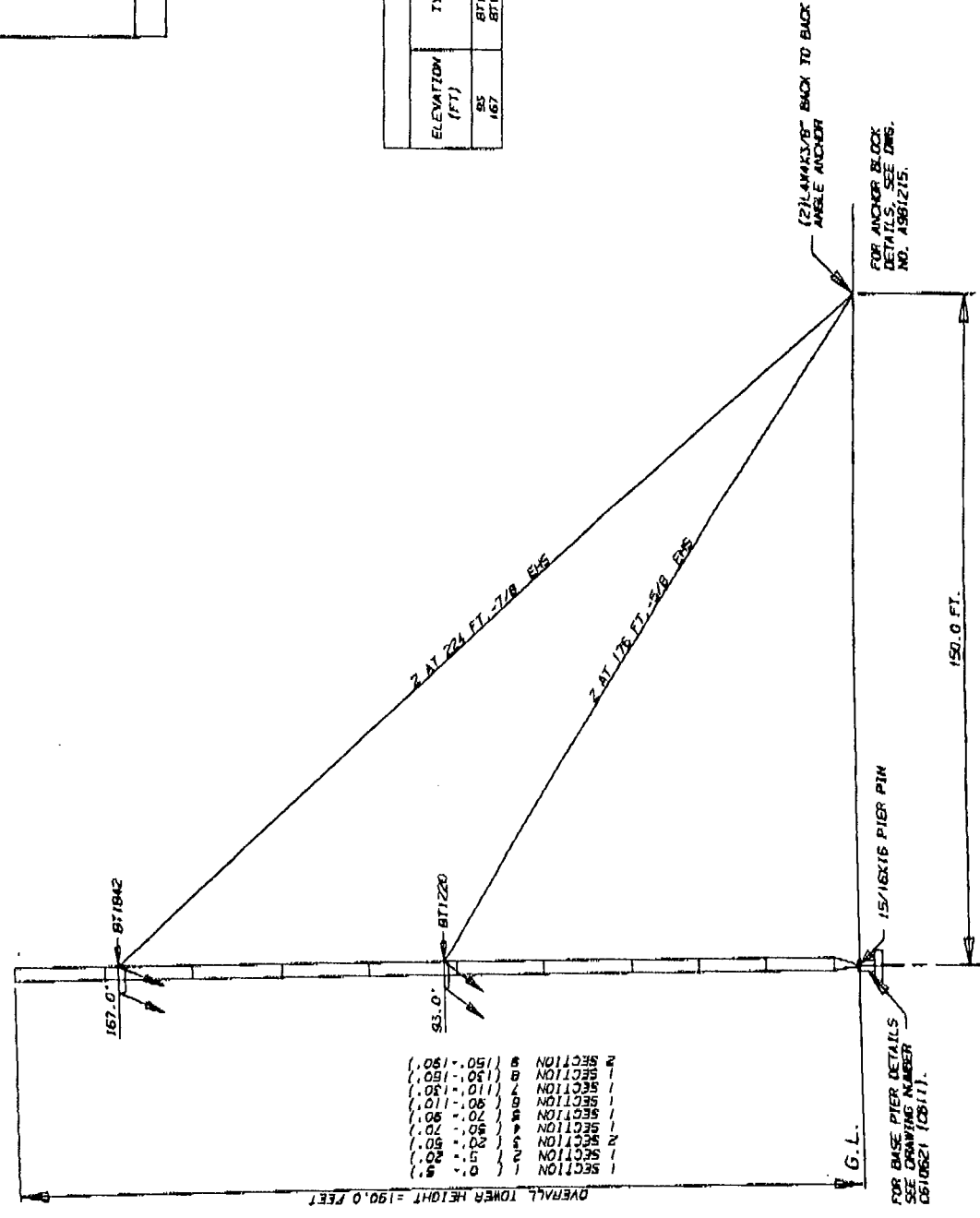
ELEVATION (FT)	TYPE	MAX. GUY SIZE (IN)	MAIN MEMBERS		CONNECTION	SECOND SIZE
			SIZE	NO.		
85	BT1220	5/8	C12X20.7	4	7/8	
167	BT1842	7/8	M18X42.7	6	1	

GUY WIRE DATA

GUY ELEV. (FT)	SIZE (IN)	TYPE	ULT. STR. (KIPS)
85	5/8	EMS	42.40
167	7/8	EMS	75.70

REACTIONS

AT	VERT. (+)	HORIZ. (I)
BASE 0.0 FT	184.8 KIPS	N/A
150.0 FT	-58.2 KIPS	65.1 KIP



ELEVATION VIEW

FOR ANCHOR BLOCK DETAILS, SEE DWG. NO. A981215.

FOR BASE PIER DETAILS SEE DRAWING NUMBER C610621 (C611).

EST. NO.	DATE	BY
151-504	0.120	
PTA22-5E-H	0.276	
PIRE-V.E.H.	0.300	

F-1996 ICE LOADS FOLLOWING	
LINE SIZE (NOM)	
33.0 (TOTAL)	(1611-5/8" (TOTAL)
33.0 (TOTAL)	(1611-5/8" (TOTAL)
33.0 (TOTAL)	(321EWS (TOTAL)
33.0 (TOTAL)	(1611-5/8" (TOTAL)
33.0 (TOTAL)	(1611-5/8" (TOTAL)
BOARDS	
LETE OWNER	

GENERAL NOTES

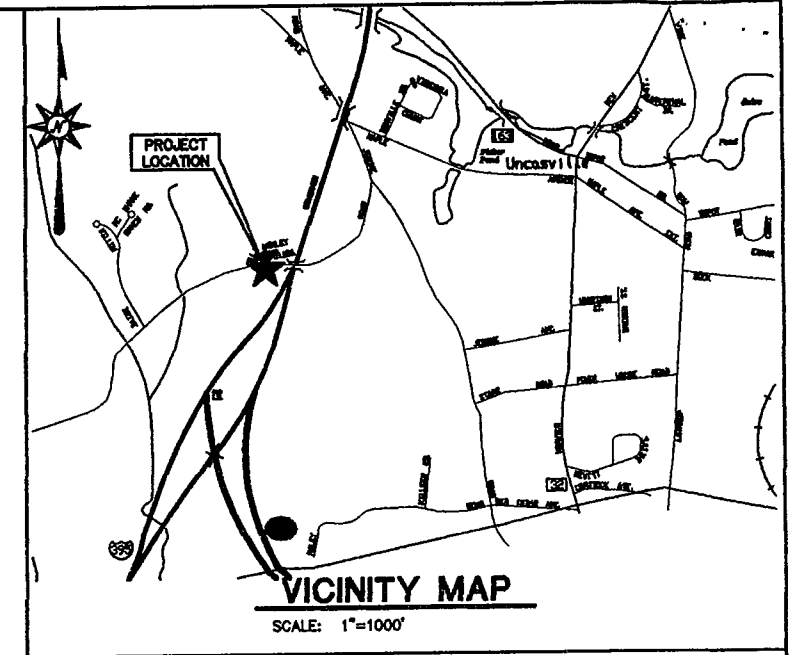
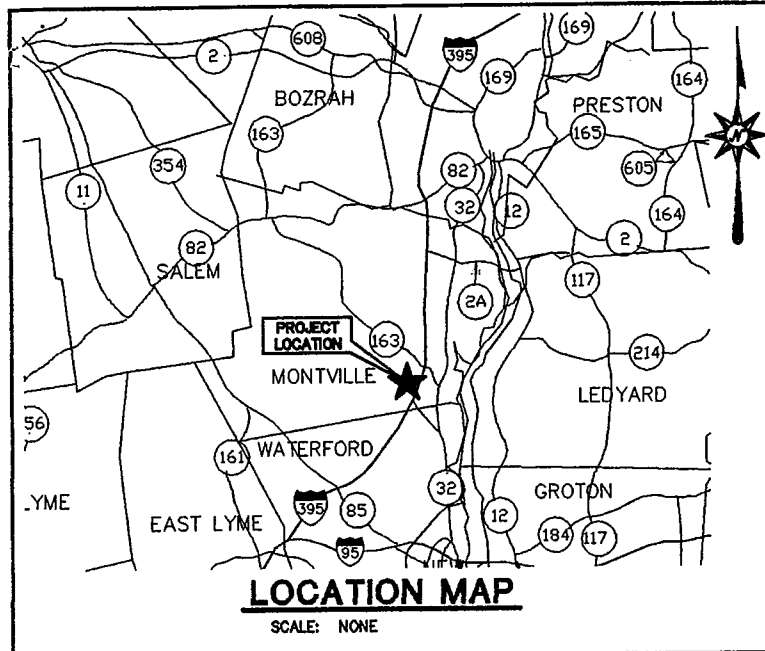
1. ROWN COMMUNICATION TOWER DESIGNS CONFORM TO ANSI/TIA/EIA-222-F UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADS.
2. THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROWN; THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA/EIA-222-F AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
3. ANTENNAS AND LINES LISTED IN PERMITS DESIGN LOADING TABLE ARE PROVIDED BY OTHERS. UNLESS OTHERWISE SPECIFIED, DESIGN STRESS FOR ALL DESIGN DEVICES NOT INCLUDE STRESSES DUE TO ERECTION AND ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
4. WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F, STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
5. THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI, EXCEPT AS NOTED BELOW. ALL SHALL BE 36 KSI.
ANGLE BRACES SHALL BE 36 KSI.
STEEL CHANNELS SHALL BE 36 KSI.
STEEL PLATES SHALL BE 36 KSI.
CHANNELS FOR TORQUE ARMS SHALL BE 36 KSI.
FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
6. STRUCTURAL BOLTS SHALL CONFORM TO ASTM A-325, EXCEPT WHERE NOTED.
7. PAL NUTS SHALL BE PROVIDED FOR ALL TOWER BOLTS.
STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA/EIA-222-F.
8. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A "SMARTLIGHT" CONDITION AS DEFINED IN THE NOVEMBER 13, 1985, ALSO "SPECIFIC" PURCHASED SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
9. TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1/4 OR MINUS 1/22.
10. DESIGN ASSUMES THAT AS A MINIMUM, MAINTENANCE AND INSPECTION SHALL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA/EIA-222-F.
11. DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
12. INITIAL TENSION OF GUY WIRES SHALL BE 10% OF THEIR ULTIMATE STRENGTHS.
13. THE FACTOR OF SAFETY OF GUYS AND THEIR CONNECTIONS SHALL NOT BE LESS THAN 2.0.
14. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO TEMPORARILY GUY THE STRUCTURE AND MAINTAINED DURING ERECTION TO MAINTAIN MEMBER OF THE STRUCTURE.
15. TOWER ORIENTATION TO BE DETERMINED BY OTHERS.
16. DESIGN ASSUMES "RD" AND "SR" ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE.
17. ENTIRE HEIGHT OF THE TOWER SHALL BE PROVIDED FOR CLIMBING THE TOWER.
18. DESIGN ASSUMES THAT ALL TRANSMISSION LINES AND WAVEGUIDE BRACE BRACKET IS ARE EQUALLY DISTRIBUTED ON THREE TOWER FACES.
19. WAVEGUIDE THREE BRACES OF THE TOWER AND FROM 5' TO TOP OF THE TOWER ON THREE FACES OF THE TOWER FOR SWAMP-ON HANGERS.
20. THE PURCHASER SHALL VERIFY THAT ACTUAL SOIL PARAMETERS MEET OR EXCEED E.J.A. "NORMAL" SOIL PARAMETERS.
21. DESIGN ASSUMES THAT ACTUAL SOIL PARAMETERS USED FOR DESIGN, ACTUAL SOIL PARAMETERS SHOWN ARE NOMINAL AZIMUTHS USED TO ESTABLISH DESIGN LOADS.
22. THE TOWER AZIMUTH SHOWN IS A RELATIVE AZIMUTH USED TO ESTABLISH THE RELATIVE POSITION OF ANTENNAS WITH RESPECT TO THE TOWER FOR DESIGN.

TOWER SITE: WATERFORD
COUNTY: NEW LONDON, CT

151	HORIZ. (+)
152	N/A
153	66.1 RIPS

Rev. A. Revision Description		Date	
Drawn:	DWG	04/15/98	
Checked:	DWG	4/15/98	
App. Eng.:			
Permit File:			
THIS DRAWING IS THE PROPERTY OF ROWN. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.		190' MODEL 80 POWER DESIGN FOR WIRELESS SOLUTIONS	
37183AE001		ENG. FILE: B961620	
SHEET 1 OF 1		REV.	

ROHN



SITING COUNCIL SUBMISSION

UNCASVILLE

TELECOMMUNICATION FACILITY

71 MOXLEY ROAD
MONTVILLE, CONNECTICUT

PREPARED FOR:
BELL ATLANTIC MOBILE
20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492

CONTENTS

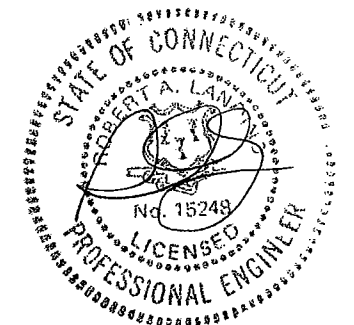
	TITLE SHEET
SC-1	SITE PLAN AND ELEVATION

PREPARED BY:



ARCHITECTURE ENGINEERING PLANNING LANDSCAPE ARCHITECTURE
LAND SURVEYING ENVIRONMENTAL SCIENCES ANALYTICAL SERVICES

355 RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450
(203) 630-1406
(203) 630-2615 Fax



DATES

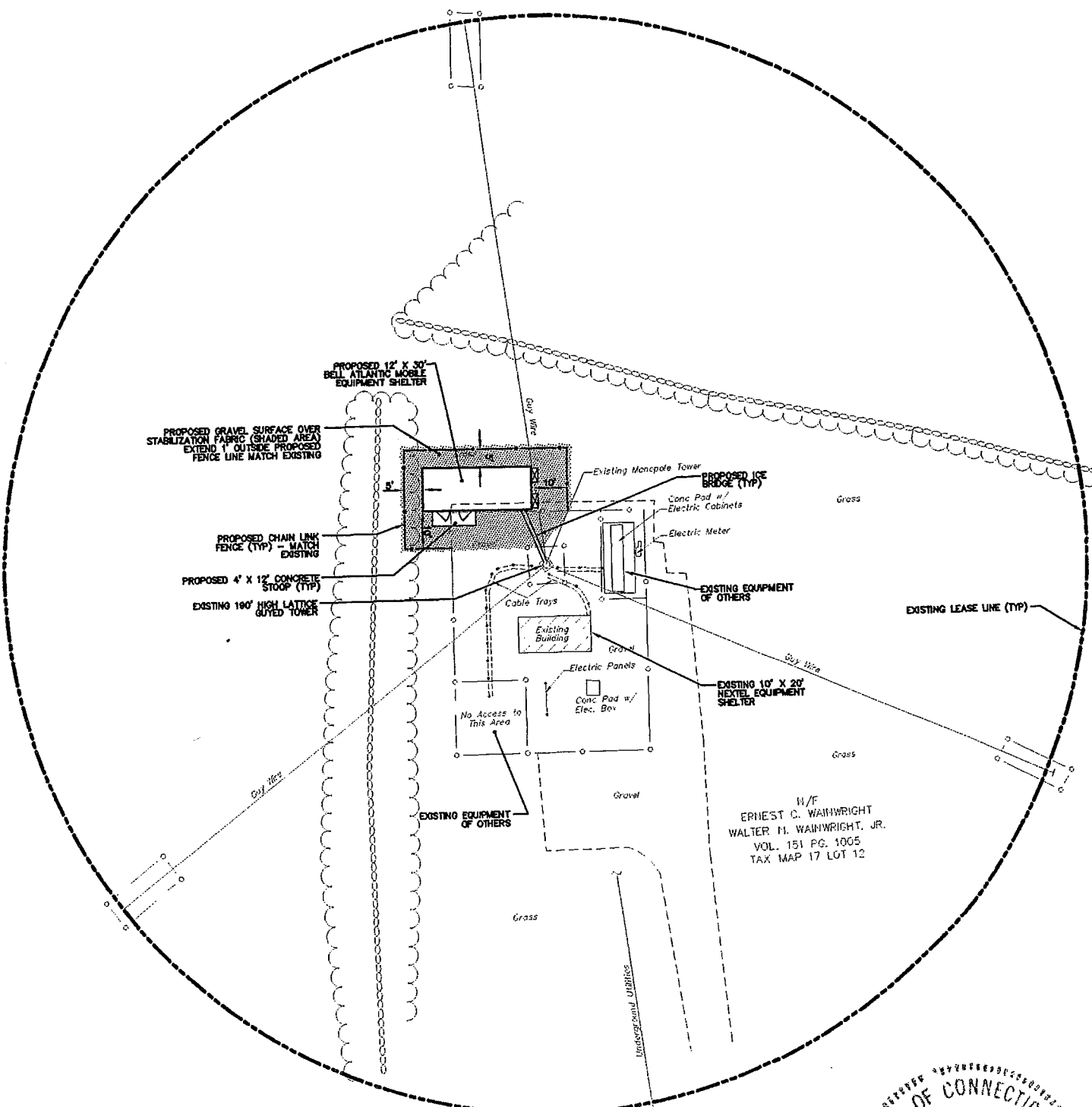
ISSUE DATE: NOVEMBER 22, 1999
REVISION:

SITE PLAN AND ELEVATION
 UNCASVILLE TELECOMMUNICATION FACILITY
 71 MOXLEY ROAD
 MONTVILLE, NEW LONDON COUNTY, CONNECTICUT

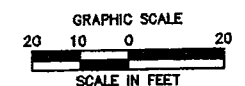
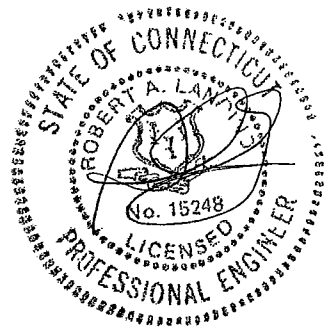
REVISIONS	Date
No.	

Designed	R.C.B.
Drawn	R.C.B.
Checked	S.N.
Approved	R.A.L.
Scale	AS SHOWN
Project No.	99C536
Date	11/22/99
CAD File	SCC53601

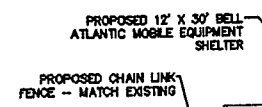
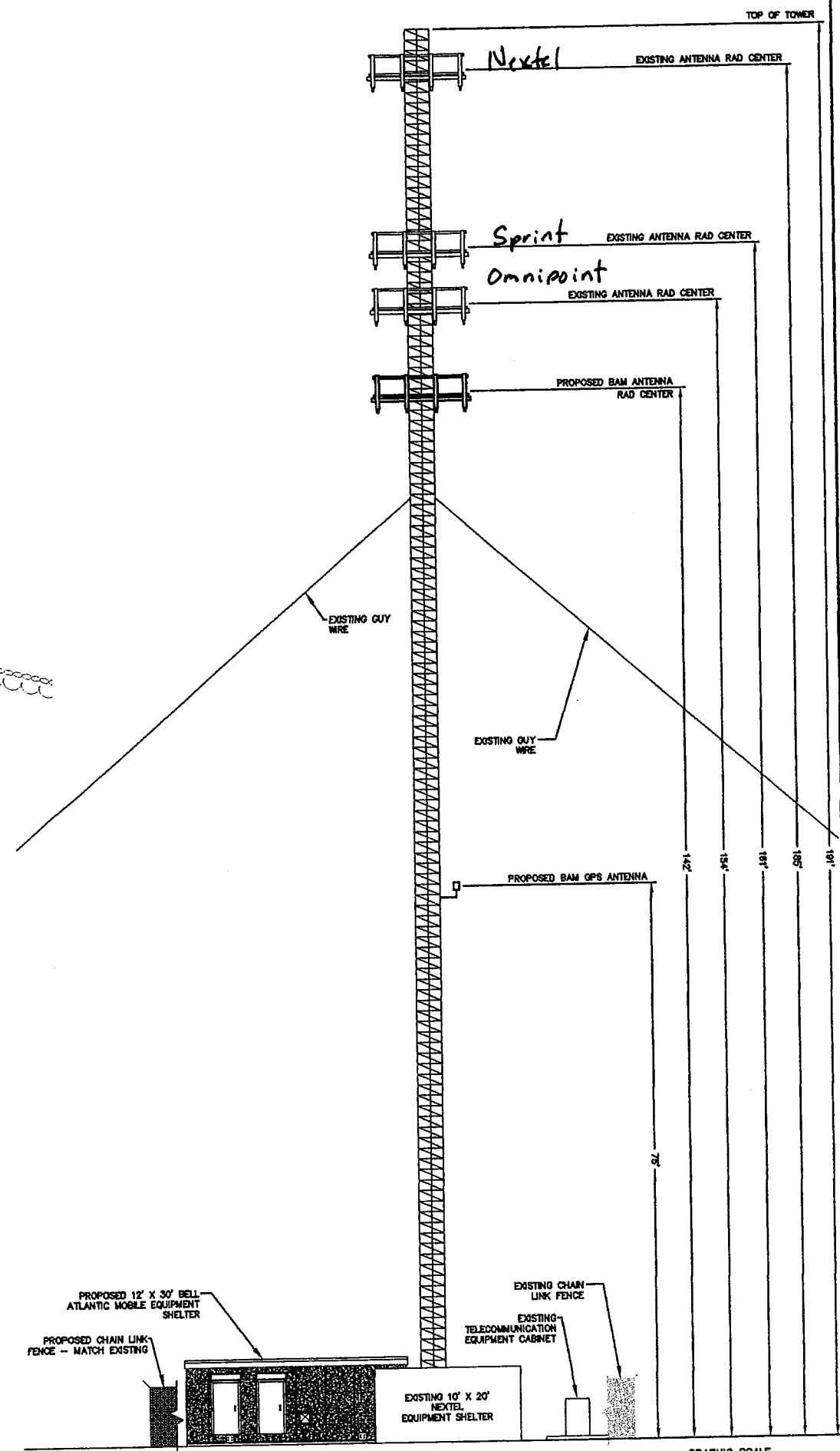
Sheet No. **SC-1**



H/F
 ERNEST C. WAINWRIGHT
 WALTER H. WAINWRIGHT, JR.
 VOL. 151 PG. 1005
 TAX MAP 17 LOT 12



SITE PLAN
 SCALE: 1"=20'



TOWER ELEVATION
 SCALE: 1"=10'

