

# STATE OF CONNECTICUT

# CONNECTICUT SITING COUNCIL

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

July 1, 1997

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

Cellco Partnership d/b/a Bell Atlantic NYNEX Mobile notice of intent to modify an existing Re: telecommunications facility located at 864 Opening Hill Road in Madison, Connecticut. Dear Mr. Baldwin:

At a public meeting held on June 30, 1997, the Connecticut Siting Council (Council) acknowledged your notice of intent to modify an existing telecommunications site in Madison, Connecticut, pursuant to Section

The proposed modifications are to be implemented as specified in your notice dated June 16, 1997. The modifications are in compliance with the exception criteria in Section 16-50j-72 (c)(1) of the Regulations of Connecticut State Agencies as changes to an existing non-facility site that would not cause a significant change or alteration in the physical and environmental characteristics of the site. This site 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 site 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 Science and Technology, Bulletin No. 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes J 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

Thank you for your attention and cooperation.

Very truly yours,

Mortuer de Gelslogen Mortimer A. Gelston

Chairman

MAG/RKE/ss

Honorable Thomas Rylander, First Selectman, Town of Madison



### STATE OF CONNECTICUT

### CONNECTICUT SITING COUNCIL

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

June 18, 1997

Honorable Thomas R. Rylander First Selectman Town of Madison Madison Town Campus 8 Campus Drive Madison, CT 06443

RE: Cellco Partnership d/b/a Bell Atlantic NYNEX Mobile notice of intent to modify an existing telecommunications facility located at 864 Opening Hill Road in Madison, Connecticut.

Dear Mr. Rylander:

On June 16, 1997, the Connecticut Siting Council (Council) received a request from Cellco Partnership d/b/a Bell Atlantic NYNEX Mobile to modify an existing telecommunications facility located at 864 Opening Hill Road in Madison, Connecticut, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting tentatively scheduled for June 30, 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,

Joel M. Rinebold Executive Director

JMR/ss

Enclosure: Notice of Intent

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAW OFFICES

One Commercial Plaza 280 Trumbull Street Hartford, CT 06103-3597 860-275-8200 Fax 860-275-8299

Kenneth C. Baldwin 860-275-8345 Internet: kbaldwin@rc.com

June 16, 1997

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

RECEIVED

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CONNECTICUT
SITING COUNCIL

Re: North Madison Volunteer Fire Company Tower 864 Opening Hill Road, Madison, Connecticut

Dear Mr. Rinebold:

Cellco Partnership d/b/a Bell Atlantic NYNEX Mobile ("BANM" or the "Company") submits this notice of intent to modify an exempt tower pursuant to Regulations of Connecticut State Agencies ("RCSA") Section 16-50j-73 for the placement of associated equipment on an existing non-facility tower pursuant to RCSA Section 15-50j-72(c). Pursuant to RCSA Section 16-50j-73, a copy of this letter has been sent to Madison First Selectman, Thomas Rylander.

### **Proposed Use**

As a part of a planned expansion of its communications network, on April 17, 1997, the North Madison Volunteer Fire Company (the "Fire Company") received the approval of the Madison Planning & Zoning Commission (the "PZC") to construct a new 180-foot self-supporting lattice tower on its property at 864 Opening Hill Road (the "Property"). This tower will replace the existing 150-foot communications tower on site. Once constructed, this tower will support emergency service antennas for the Fire Company and the Madison Police Department ("Police Department"), and cellular antennas of Springwich Cellular Limited Partnership ("Springwich") and BANM.

BANM proposes to install 12 panel-type antennas, at 110 feet above ground level (AGL), on the new tower. As a part of the PZC application, the Fire Company received approval for the

Joel M. Rinebold June 16, 1997 Page 2

installation of a new 12' x 30' equipment building to house Fire Company, Police Department and BANM equipment and an emergency back-up generator. The generator will provide back-up, emergency power for all emergency service antennas and BANM equipment. A copy of the Fire Company's PZC application, and the PZC's approval are attached as Exhibit A.

#### **Temporary Cellular Service**

As a part of the local approval process, the PZC approved BANM's request to install a temporary cell site at the Property for use during the construction of the new tower. The temporary cell site will consist of a 8' x 20' box truck which would be parked in the paved parking area to the west of the Fire Company building. The truck will be equipped with a 30-foot retractable mast on which BANM would mount three (3) whip-type antennas (one mounted above the top of the mast and two mounted below). The single transmit antenna at the top of the mast will have a center of radiation of approximately 38' AGL. Cellular equipment associated with the temporary cell site will be located inside the truck's box container. The specifications for the temporary cell site are attached as Exhibit B. This temporary cell site will be removed upon completion of all improvements associated with the new tower, a period of approximately four months from the start of construction.

The proposed use of the new Fire Company tower by BANM and the use of a temporary cell site at the Property does not constitute a substantial environmental effect and will not cause a significant change in or alteration to the physical and environmental characteristics of the Property. The proposed addition of BANM antennas on the recently approved non-facility tower and the establishment of the temporary cell site, are activities explicitly provided for in RCSA Section 16-50j-72(c) based on the following:

- 1. The 180-foot height approved by the PZC for the new Fire Company tower will not be effected by BANM's installation and will not add noticeably to the physical characteristics or visual appearance of the tower, the Property or the surroundings and will have no adverse effect on the environment and ecology of the state.
- 2. The proposed new tower, its related equipment and the temporary cell site will not require an extension of the boundaries of the Property. The 4.6 acre Fire Company parcel will remain largely undeveloped. (See Site Plan included as a part of Exhibit A). BANM will utilize space in the new 20' x 30' equipment building, which it will share with the Fire Company and Police Department.
- 3. BANM's installation will not increase the noise levels at the existing facility by six decibels or more. The only noise associated with the operation of

Joel M. Rinebold June 16, 1997 Page 3

the new facility will be from air conditioning units in the equipment building and the periodic use of the proposed on-site emergency generator.

4. The American National Standards Institute's (ANSI) standard recommended safety levels for frequencies used by cellular telephone (870-880 MHz) is 0.5833 mW/cm² in uncontrolled environments. This standard was adopted by the State of Connecticut in C.G.S. Sections 22a-162 and 22a-162a. BANM has performed power density calculations for its operations on the new Fire Company tower and for the proposed temporary cell site. These calculations are a conservative, worst-case approximation of radio frequency (RF) power density at a point 25 feet from the base of the tower.

<u>Operator</u>	Power Density mW/cm <sup>2</sup>	Standard mW/cm <sup>2</sup>	Percent of Standard
BANM (Temp.)	0.2083	0.583	35.7
BANM (New)	0.0564	0.583	9.7
Springwich	0.1493	0.5867	25.45
Fire Company	0.0109	0.2000	5.45
Police Department	0.0110	0.3023	3.64

The Fire Company and Police Department antennas will be located at the top of the new 180-foot tower. The exact location and configuration of these emergency service antennas has not been established. The power density calculations for fire and police antennas listed above are those for the emergency service antennas on the existing 150-foot tower and were submitted to the Council as a part of Springwich's March 11, 1994 filing. These power density levels will decrease as the height of the emergency service antennas on the new tower increases.

#### **Conclusions**

BANM, in association with the Fire Company has received all necessary municipal approvals and permits for the installation of permanent antennas on the new Fire Company tower and the installation of a temporary cell site on the Property. For the foregoing reasons, BANM

Joel M. Rinebold June 16, 1997 Page 4

seeks Council acknowledgment that the proposed additions to the new non-facility tower and the installation of a temporary cell site would not cause a significant change or alteration in the physical and environmental characteristics of the site pursuant to RCSA Section 16-50j-72(c)(1).

Please contact me if you or the Council need any additional information regarding this proposal.

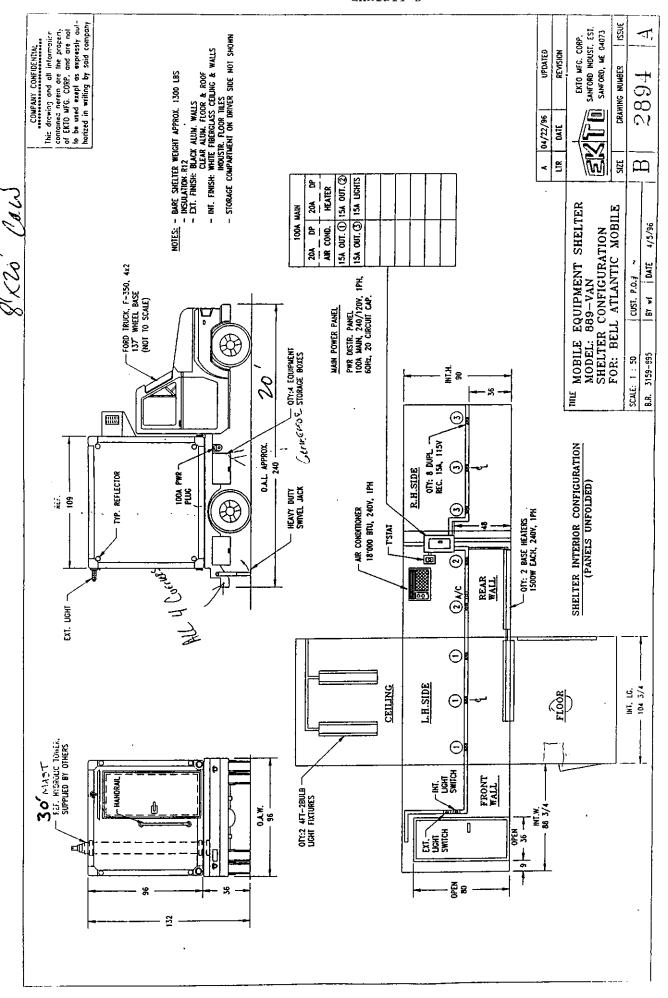
Very truly yours,

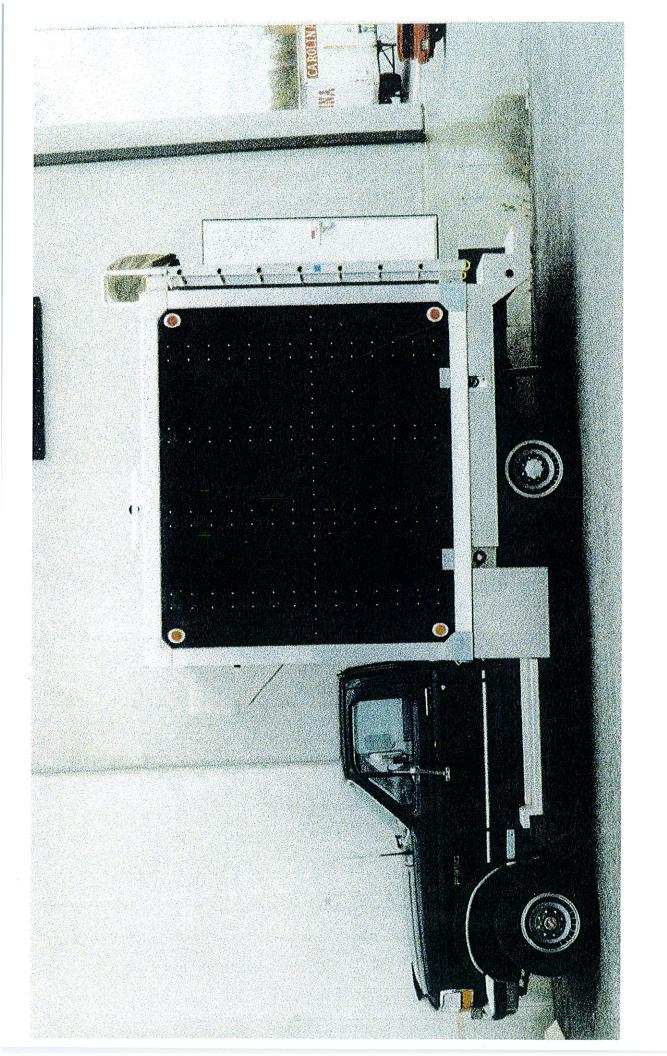
Kenneth C. Baldwin

KCB/jd Enclosure

cc: Thomas Rylander, First Selectman

David S. Malko, P.E. Sandy M. Carter







### TOWN OF MADISON

# CONNECTICUT LAND USE OFFICE

8 CAMPUS DRIVE MADISON, CONNECTICUT 06443-2563 (203) 245-5632 FAX (203) 245-5613

April 18, 1997

CERTIFIED MAIL

NORTH MADISON VOLUNTEER FIRE DEPARTMENT Attention: Mr. Richard P. Caraszi 864 Opening Hill Road Madison, CT 06443

Re: 864 OPENING HILL ROAD. Request for modification of Special Exception Permit to allow construction of a 180 ft. communications tower to replace existing tower, installation of equipment building and emergency back-up generator.

#### Gentlemen:

Following Public Hearing on April 17, 1997, the Planning and Zoning Commission approved the modification of Special Exception Permit referenced above, waiving requirements of 1) a traffic study; 2) a waste water report and engineering study; and 3) final floor plans for the equipment building. The temporary installation of the "Cell on Wheels" was also approved.

This approval is conditioned on plastic slats being placed in the chain link fence to obscure the view of the materials enclosed.

From the date of the approval, the Special Exception Modification has a five-year time limit for completion. The completion date may be extended at the discretion of the Commission.

Before this modification of Special Exception Permit will be come effective, it is necessary to file a Certificate in the land records of the Town for which there is a \$10.00 filing fee. At your earliest convenience, please forward this amount to our office so that we may file this Certificate in your behalf. Your check should be made payable to the Town of Madison.

Very truly yours,

William H. McMinn

Planning and Zoning Administrator

We Am m

:drk

Copy to Kenneth C. Baldwin, Esq., Robinson & Cole

INLAND WETLANDS AGENCY . PLANNING AND ZONING COMMISSION . ZONING BOARD OF APPEALS

## ROBINSON & COLE

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAND USE OFFICE

FEB 2 4 1997

LAW OFFICES

One Commercial Plaza 280 Trumbull Street Hartford, CT 06103-3597 860-275-8200 Fax 860-275-8299

Kenneth C. Baldwin 860-275-8345 Internet: kbaldwin@rc.com

February 24, 1997

William Bilcheck, Chairman Madison Planning & Zoning Commission Town of Madison 8 Campus Drive Madison, CT 06443

Re: Special Exception Permit Modification Application North Madison Volunteer Fire Company, Inc. Durham Road and Opening Hill Road Madison, CT

Dear Chairman Bilcheck and Members of the Commission:

On behalf of the applicant, the North Madison Volunteer Fire Company, Inc. ("NMVFC"), I am pleased to submit this application for a Special Exception Permit Modification, pursuant to Sections 4 and 5.4 of the Zoning Regulations. The original Special Exception Permit for the fire station was approved on August 21, 1969. In 1982, the NMVFC received a variance from the Madison Zoning Board of Appeals to construct the existing 150-foot lattice tower to serve the communications needs of the NMVFC and the Madison Police Department. In 1994, the NMVFC Special Exception Permit was modified to allow for the installation of a 20-foot by 30-foot equipment building near the base of the existing 150-foot tower to house cellular equipment of Springwich Cellular Limited Partnership ("SCLP").

This permit modification application requests the approval for the construction of a 180-foot self-supporting lattice tower and the installation of a 12-foot by 40-foot single-story equipment building. This building will house radio equipment for Bell Atlantic NYNEX Mobile ("BANM"), the NMVFC and the Town Police. The new tower will provide the NMVFC and the Madison Police Department with improved emergency service communications to the more remote areas of North Madison. Such service is not currently available from the existing facility. The new tower will also be shared by both SCLP and BANM. SCLP antennas are already located on the existing tower and will be relocated on to the new tower if approved. (See Tower Elevation.).

### **ROBINSON & COLE**

William Bilcheck, Chairman Madison Planning & Zoning Commission February 24, 1997 Page 2

In addition to the improvements discussed above, the Applicant is requesting Planning and Zoning Commission approval for the temporary installation of a "Cell on Wheels" or "COW" in the southwesterly corner of the paved parking area immediately north of the existing SCLP equipment building. The COW consists of a 10-foot by 30-foot box trailer, on wheels, as the name suggests, and a retractable mast which can be raised to a height of approximately 80 feet above ground level. This mast will support BANM antennas only and will be removed once the new tower and equipment building have been constructed.

Enclosed you will find four (4) complete sets of the following:

- 1. An application form for a Special Exception Permit Modification pursuant to Sections 4 and 5.4 of the Zoning Regulations and the associated application fee in the amount of \$288.00.
- 2. A Statement of Use describing the proposed improvements at the NMVFC site pursuant to Section 4.2.1 of the Madison Zoning Regulations.
- 3. An A-2 survey of the NMVFC property and a site plan of the proposed improvements.
- 4. Schematic building elevations of the proposed 12-foot by 40-foot single-story equipment building.
- 5. A schematic tower elevation drawing showing the location of the Town's emergency service antennas and the antennas of BANM and SCLP.

The applicant also asks that the Commission waive its requirements for the following:

- 1. A written report addressing traffic impacts and provisions for fire protection as required by §29.2(s) of the Zoning Regulations. Once operational, the proposed improvements at the site will have no traffic impacts on area roadways. Maintenance personnel will visit the equipment buildings on average once a month. The facility is otherwise unstaffed and does not present any unreasonable traffic or fire safety hazard;
- 2. Engineering plans and calculations to address waste water discharges as required by §29.2(t) of the Zoning Regulations. The proposed facility will not produce nor will it discharge any waste water into the ground or into any surface waters on the site. The proposed improvements will result in an incremental increase in impervious surface 1,380 square feet for the new building and tower foundation. This small increase in storm water run-off is insignificant and will not have any impact on wetland areas on-site; and

## **ROBINSON & COLE**

William Bilcheck, Chairman Madison Planning & Zoning Commission February 24, 1997 Page 3

3. Final floor plans for the proposed equipment building as required by §29.2(u) of the Zoning Regulations. Floor plans for the new equipment building have not yet been developed. The building will be divided into two equipment rooms for use by the Town and BANM. The rooms will be physically separated and will have access through separate exterior doors.

I look forward to presenting this information to you at your public hearing of May 20, 1997. If you have any questions or need any additional information prior to that date, please feel free to contact me.

Sincerely,

Kenneth C. Baldwin

KCB/nwh Enclosures

cc: Chief John Brady, Jr.
Richard Carazsi

MADISON PLANNING AND ZONING COMMISSION 8 CAMPUS DRIVE	APPL.#	
MADISON, CT 06443	FEE PAID	
( ) SITE PLAN ( ) SITE PLAN MODIFICATION	DATE FILED	
( ) ZONE BOUNDARY CHANGE/REGULATION AMENDME	ent	
( ) SPECIAL EXCEPTION PERMIT ( X ) SPECIAL EXCEPTION MODIFICATION		
( ) OTHER		
NAME OF APPLICANT North Madison Volunteer Fin	re Department	
ADDRESS 864 Opening Hill Road	CITY Madison ZIP 06443	
PHONE NO. 203-421-4329 (Business	(Home)	
PROPERTY OWNER (If not applicant)		
ADDRESS	CITYZIP	
PHONE NO(Busine		
INTEREST OF APPLICANT, IF NOT OWNER		
ASSESSOR'S MAP NO.(S) 134		
LOCATION OF PROPERTY Southwesterly corner of		
SECTION(S) OF REGULATIONS UNDER WHICH APPLICA	TION IS MADE Sections 4 & 5.4	
PRESENT ZONE RU-1 SIZE	OF PROPERTY 4.61 acres	
DESCRIPTION OF PROPOSAL To permit the constru	action of a new 180-foot self-supporting	
lattice communications tower, the installati	lon of a single-story equipment building	
near the base of the tower and the installat	ion of an emergency back-up generator	
adjacent to the fire station. The existing new tower is approved.	150-foot tower will be removed if the	
VATER SUPPLY: (If applicable) *Public Utilit P.A. 84-330 (		
If Public Utility, attach copy of Certificat	e of Public Convenience to application.	
IGNATURE OF APPLICANT Kickard Cara	DATE 23 764 97	
GIGNATURE OF OWNER (if other than applicant)		

### Application of the North Madison Volunteer Fire Company for a Special Exception Permit

### Statement of Use

The applicant, The North Madison Volunteer Fire Company, Inc. ("NMVFC" or the "Applicant") submits this Statement of Use pursuant to Section 4.2.1 of the Madison Zoning Regulations. The NMVFC owns the property at 864 Opening Hill Road, located at the southwesterly corner of Opening Hill Road and Durham Road (Route 79) ("Property"). The NMVFC has been serving the residents of the Town of Madison from this facility since 1969.

This site is currently occupied by a 3,360 square-foot building with associated driveway and parking areas. Approximately 80 feet to the southwest of the fire station is an existing 150-foot self-supporting lattice communications tower, a single story equipment building operated by Springwich Cellular Limited Partnership ("SCLP") and an aboveground fuel tank. The Applicant proposes to construct a new 180-foot self-supporting lattice communications tower approximately 30 feet to the west of the existing tower, to install a new 12-foot by 40-foot single story equipment building near the base of the new tower and to place a new emergency back-up generator on a concrete pad at the southwesterly corner of the fire station building. Once the new tower is constructed and all existing antennas are relocated to the new tower, the existing tower would be dismantled and removed from the site.

The new, taller tower would provide the NMVFC and the Madison Police Department with a vastly improved emergency service communications system to serve the northern reaches of the Town of Madison. This system is currently plagued with numerous "dead spots" in North Madison. Emergency service communications to these areas would improve significantly with the additional 30 feet in antenna height.

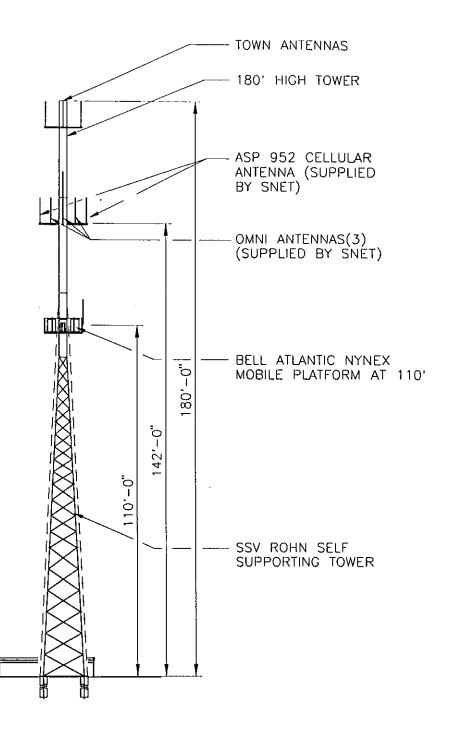
The new equipment building would be used to store the radio equipment of the Town and Bell Atlantic NYNEX Mobile ("BANM"). The BANM equipment will service cellular communications antennas which will be installed on the new tower beneath the Town's emergency service antennas. The emergency back-up generator will provide emergency power to the fire station and to the BANM facility during power outages. The new tower will continue to support SCLP antennas.

On February 11, 1997, the NMVFC submitted an application to the Madison Zoning Board of Appeals ("ZBA") for a variance to Sections 2.7 and 11.2 of the Zoning Regulation to allow for the construction of the 180-foot tower within 64 feet of the side property line and within 72 feet of the front property line. A hearing before the ZBA will be held on March 4, 1997. The Applicant will forward a copy of the ZBA's decision to the Planning and Zoning Commission as soon as it is available.

In addition to the improvements discussed above, the Applicant is requesting Planning and Zoning Commission approval for the temporary installation of a "Cell on Wheels" or "COW" in the southwesterly corner of the paved parking area immediately north of the existing SCLP equipment building. The COW consists of a 10-foot by 30-foot box trailer, on wheels, as the

name suggests, and a retractable mast which can be raised to a height of approximately 80 feet above ground level. This mast will support BANM antennas only and will be removed once the new tower and equipment building have been constructed.

SCHEMATIC TOWER PLAN FINAL ANTENNA CONFIGURATION TO BE DETERMINED.



### TOWER ELEVATION

Designed by:

Drawn by:

JMP

Checked by:

Approved by:

**URS Greiner** 

500 ENTERPRISE ORIVE ROCKY HILL, CONNECTICUT (850) 529-8882 NO. MADISON VOLUNTEER FIRE CO.
OPENING HILL ROAD
MADISON, CONNECTICUT

