



STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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

October 4, 2000

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

RE: **EM-VER-085-000912** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located off Guinea Road in Monroe, Connecticut.

Dear Attorney Baldwin:


At a public meeting held on Monday, October 2, 2000, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies, with conditions to reinforce diagonal support members and relocate the waveguide ladder consistent with an engineering analysis.

The proposed modifications are to be implemented as specified here and in your notice dated September 12, 2000. The modifications are 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 frequencies 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 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 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 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/RKE/laf

c: Honorable Karen L. Burnaska, First Selectman, Town of Monroe  
Sandy Carter, Verizon Wireless  
Ronald C. Clark, Nextel Communications  
Peter W. van Wilgen, Springwich Cellular Limited Partnership  
Sam J. D'Agostino, PageNet, Inc.

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# ROBINSON & COLE LLP

Facsimile Transmission Sheet

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OCT - 2 2000

CONNECTICUT SITING COUNCIL

LAW OFFICES

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

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

Date: October 2, 2000 No. of Pages (including cover): 6

### Recipient(s) List

Name	Company	Facsimile Number	Phone Number
Christina Lepage	Connecticut Siting Council	860-827-2950	860-827-2935

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October 2, 2000

*Via Facsimile*

Christina Lepage  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

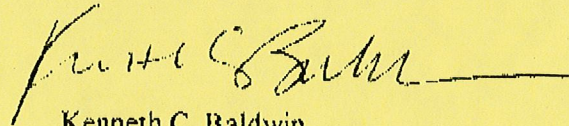
Re: **EM-VER-085-000912 – Exempt Modification, Guinea Road, Monroe, Connecticut**

Dear Ms. Lepage:

As you requested, I have enclosed a copy of the structural analysis for the existing Springfield Cellular Limited Partnership tower off Guinea Road in Monroe. As you can see from the structural analysis, in order to accommodate Celco Partnership antennas some structural modifications will be required.

Please call if you have any questions.

Very truly yours,



Kenneth C. Baldwin

KCB/kmd

cc: Sandy M. Carter (w/o enc.)



**MANZI ENGINEERING**  
ANTHONY P. MANZI  
REGISTERED PROFESSIONAL ENGINEER  
3 CIFRS LANE  
PLAISTOW, NH 03865  
(603) 382-6219 (978) 960-4147  
(603) 382-0523 FAX [apmanzi@aol.com](mailto:apmanzi@aol.com)  
SPECIALIZING IN TELECOMMUNICATIONS  
RELATED STRUCTURAL ENGINEERING

July 13, 2000

VERIZON WIRELESS  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492-2430  
Attn: Mark Gauger

Dear Mark,

Please find enclosed a follow up to my July 4<sup>th</sup> analysis of the 240-ft. ROHN SELF-SUPPORTING TOWER at Monroe, CT. This study also considers the addition 3 Rohn antenna mounting frames similar to the existing with 12 ALP9212 type panel antennas at approximately the 212' elevation with 12 additional runs of 1-5/8" diameter coax and includes recommended structural enhancements.

This analysis was done in accordance with the EIA/TIA-222-F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures". Wind loads were generated for a basic design wind speed of 85 mph and a loading combination that included 1/2" of radial ice.

**PROPOSED FINAL CONFIGURATION:**

- 12 ALP9212 TYPE PANELS AT 234' AGL ON EXISTING FRAMES
- 12 ALP9212 TYPE PANELS AT 222' AGL ON EXISTING FRAMES
- ADDITION OF THREE ROHN FRAMES AT 212' AGL (SIMILAR TO EXISTING)
- ADDITION OF 12 ALP9212 PANELS AT 212' AGL
- DUAL TOP MOUNTED LIGHTS
- 2 SIDE ARM WHIPS & MOUNTS AT 238' AGL
- 2 SIDE ARM WHIPS & MOUNTS AT 198' AGL
- UP TO 39 ASSOCIATED RUNS OF 1 5/8" COAX EVENLY DISTRIBUTED ON 3 WAVEGUIDE LADDERS
- EXISTING LEG MOUNTED CLIMBING LADDER

**THIS PROPOSED CONFIGURATION REQUIRES THE FOLLOWING STRUCTURAL IMPROVEMENTS TO MEET REQUIREMENTS OF EIA/TIA-222-F:**

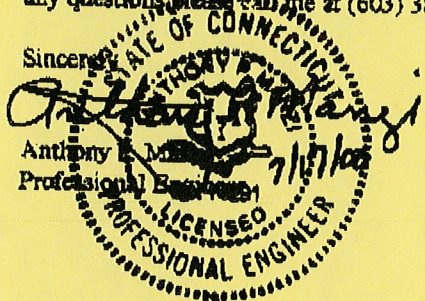
1. REPLACE ALL EXISTING DIAGONALS IN SECTION 8 WITH L 2 1/2 x 2 1/2 x 3/16 AND USE NEW 1/2" DIAMETER ASTM A-325 BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANES.
2. CHANGE OUT ALL EXISTING DIAGONAL BRACE BOLTS IN SECTION 9. USE NEW 1/2" DIAMETER ASTM A-325 BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANES.

10/02/2000 MON 09:32 LTX/RX NO 66261

- 3. CHANGE OUT ALL EXISTING DIAGONAL BRACE BOLTS IN SECTION 13. USE NEW 5/8" DIAMETER ASTM A-325 BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANES.
- 4. REPLACE ALL EXISTING DIAGONALS IN SECTION 14 WITH L 4 x 4 x 5/16 (GR. 50 STEEL) AND USE NEW 3/4" DIAMETER ASTM A-325 BOLTS WITH THREADS EXCLUDED FROM THE SHEAR PLANES.
- 5. RELOCATE 1 EXISTING WAVEGUIDE LADDER, REMOVE 1 EXISTING WAVEGUIDE LADDER AND EVENLY DISTRIBUTE ALL NEW AND EXISTING COAX ON THE 3 REMAINING WAVEGUIDE LADDERS. (SEE ENCLOSED "EXISTING" AND "PROPOSED WAVEGUIDE LADDER PLAN")

I appreciate this opportunity to assist you and look forward to working with you in the future. If you have any questions, please call me at (603) 382-6219.

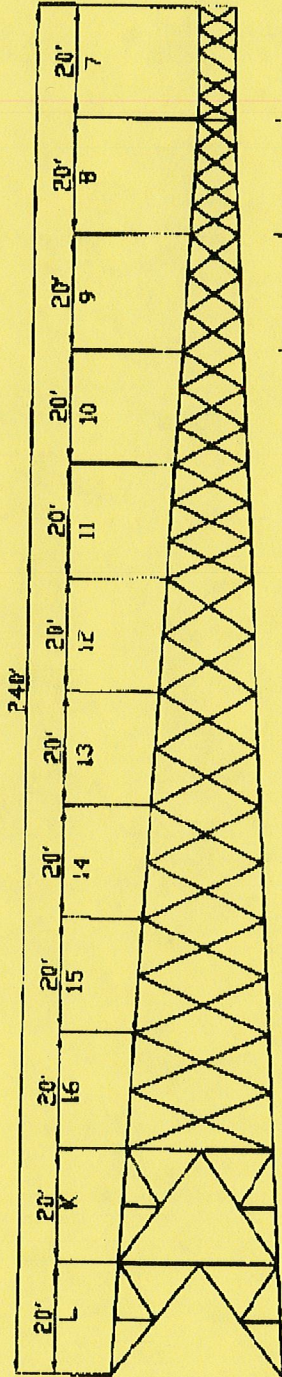
Sincerely,



Anthony E. Moore  
Professional Engineer

10/02/2000 MON 09:32 [TX/RX NO 65251]

PROPOSED CHANGES



REPLACE EXISTING DIAGONALS WITH L 2 1/2 x 2 1/2 x 3/16 & 1/8" DIA. BOLTS (ALL FACES)\*\* A36 STEEL

CHANGE OUT BOLTS TO 1/2" DIA A325 THREADS EXCLUDE FROM THE SHEAR PLANE (ALL DIAGONALS, ALL FACES)

CHANGE OUT BOLTS TO 5/8" DIA. A325 THREADS EXCLUDED FROM SHEAR PLANE (ALL FACES)

REPLACE EXISTING DIAGONALS WITH L 4 x 4 x 5/16 & 3/4" DIA. BOLTS (ALL FACES) \*\* A572, GRADE 50 STEEL

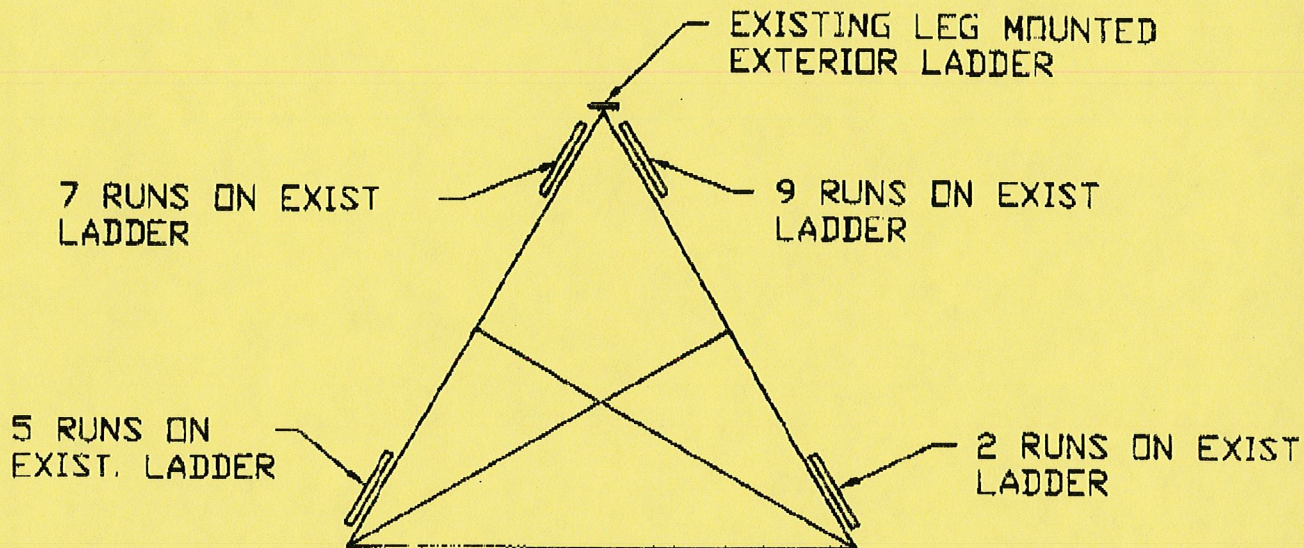
\*\* ALL NEW BOLTS TO BE ASTM A-325 WITH THREADS EXCLUDED FROM SHEAR PLANES

MONROE, CT  
240 FT. ROHN TOWER

10/02/2000 MON 09:32 1TX/RX NO 65251

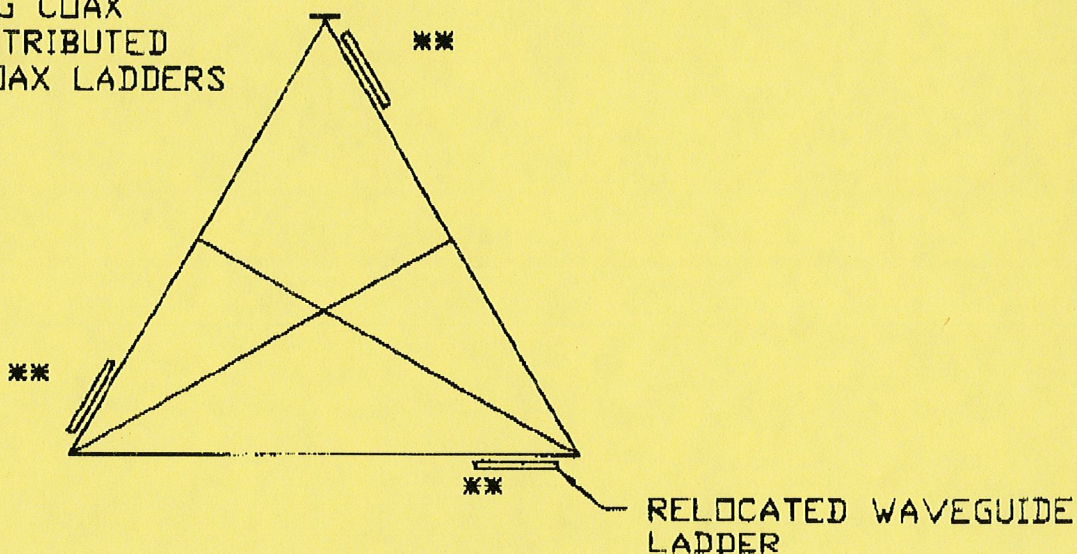
TOTAL P.05

EXISTING  
EQUIPMENT  
BUILDING



EXISTING WAVEGUIDE LADDER PLAN  
( 4 LADDERS )

\*\* NEW & EXISTING COAX  
TO BE EVENLY DISTRIBUTED  
ON 3 REMAINING COAX LADDERS



PROPOSED WAVEGUIDE LADDER PLAN  
( REMOVE 1 LADDER & RELOCATE 1 LADDER )



# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

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

September 27, 2000

Honorable Karen L. Burnaska  
First Selectman  
Town of Monroe  
Town Hall  
7 Fan Hill Road  
Monroe, CT 06468-1800

RE: **EM-VER-085-000912** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located off Guinea Road in Monroe, Connecticut.

Dear Ms. Burnaska:

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

The Council will consider this item at the next meeting scheduled for October 2, 2000, at 2:00 p.m. in Hearing Room Three, 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,

Joel M. Rinebold  
Executive Director

JMR/RKE/rgg

Enclosure: Notice of Intent



## ROBINSON &amp; COLE LLP

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860-275-8345  
Internet: kbaldwin@rc.com

September 12, 2000

*Via Hand Delivery*Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051**RECEIVED**

SEP 12 2000

**CONNECTICUT  
SITING COUNCIL****Re: Notice of Exempt Modification  
Siting Council Docket No. 114  
SNET Cellular, Inc.  
Guinea Road, Monroe, Connecticut**

Dear Mr. Rinebold:

SNET Cellular, Inc. ("SNET") holds a Certificate of Environmental Compatibility and Public Need for the existing telecommunications tower and related facility off Guinea Road in Monroe, Connecticut, approved as part of the Siting Council's Docket No. 114 proceeding. SNET intends to allow Cellco Partnership d/b/a Verizon Wireless ("Cellco") to install antennas and related equipment at the existing facility in Monroe.

Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Monroe First Selectwoman, Karen Burnaska. Attached hereto as Exhibit A is a letter dated September 11, 2000, from SNET authorizing Cellco to file this notification with the Council.

The existing facility consists of a 240-foot self-supporting lattice tower and related equipment located off Guinea Road in Monroe. The Siting Council approved this facility on January 16, 1990, at a height not to exceed 252 feet. The tower currently supports antennas of SNET, Nextel Communications ("Nextel"), RAM Mobile Data and PageNet.

Cellco proposes to install twelve (12) panel-type antennas on the tower at the 212-foot level. Cellco equipment will be located in a new 12-foot x 30-foot building located northeast of the existing tower. (See Proposed Site Plan and Tower Elevation attached hereto as Exhibit B).

# ROBINSON & COLE LLP

Joel M. Rinebold  
September 12, 2000  
Page 2

The planned modifications to the Monroe facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not increase the overall height of the tower above the 252-foot height limitation imposed by the Council in their Docket No. 114 Decision and Order. Cellco antennas will be mounted at the 212-foot level on the tower. The enclosed tower elevation confirms that the planned modifications will not increase the overall height of the tower beyond the permitted 252 feet.

2. The installation of Cellco equipment in a new equipment building within the site compound, as reflected on the attached site plan, will not require an extension of the site boundaries.

3. The proposed modifications to the facility will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the additional antennas will not increase the total radio frequency (RF) power density to a level at or above the applicable standard. The "worst-case" RF power density calculation for a point at the base of the tower, as provided in a recent filing authorizing the shared use of the tower by Nextel and PageNet are as follows:

<u>Carrier</u>	<u>Power Density (mW/cm<sup>2</sup>)</u>	<u>ANSI Standard (mW/cm<sup>2</sup>)</u>	<u>Percent of Standard</u>
SCLP	0.0125	0.587	2.14%
PageNet	0.0127	0.621	2.04%
RAM Mobile Data	0.0008	0.624	0.13%
Nextel	0.0142	0.572	2.51%
PageNet	0.0228	0.621	3.68%
TOTAL			10.5%

The "worst-case" RF power density calculation for the proposed Cellco antennas would add 0.0152 mW/cm<sup>2</sup> (2.6% of the standard). The "worst-case" power density for the combined operations at the site would therefore be 13.1% of the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

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Joel M. Rinebold  
September 12, 2000  
Page 3

For the foregoing reasons, Celco respectfully submits that the proposed addition of antennas and equipment at the Monroe facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

KCB/kmd

Attachments

cc: Karen Burnaska, Monroe First Selectwoman  
Sandy M. Carter  
Peter W. van Wilgen



500 Enterprise Drive  
Rocky Hill, Connecticut 06067-3900  
Phone: (860) 513-7730  
Fax: (860) 513-7614

## Springwich Cellular Limited Partnership

**Peter W. van Wilgen**  
*Director - Real Estate Operations*

September 11, 2000

Ms. Sandy Carter  
Manager – Regulatory  
Verizon Wireless  
P.O. Box 5029  
Wallingford, CT 06492

Dear Sandy:

Please consider this letter as authorization from Springwich Cellular Limited Partnership for Verizon Wireless to file with the Connecticut Siting Council to share Springwich's tower on Guinea Road in Monroe, Connecticut.

Please send me a copy of your filing when it has been submitted to the Council.

Very truly yours,

A handwritten signature in black ink, appearing to read "Peter W. van Wilgen". The signature is written in a cursive style with a long, sweeping underline that extends to the right.

EXHIBIT A

EXHIBIT B

CELLCO PARTNERSHIP  
DBA  
**verizon wireless**

A&E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(860)-529-8882

A&E SEAL

PROJECT NO: F301825.09/F03

DRAWN BY: CRS

CHECKED BY:

ISSUED FOR	
06-06-00	REVIEW
09-11-00	FINAL

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IN THIS SET OF DOCUMENTS  
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**TOWN OF MONROE**  
GUINEA ROAD  
MONROE, CONNECTICUT

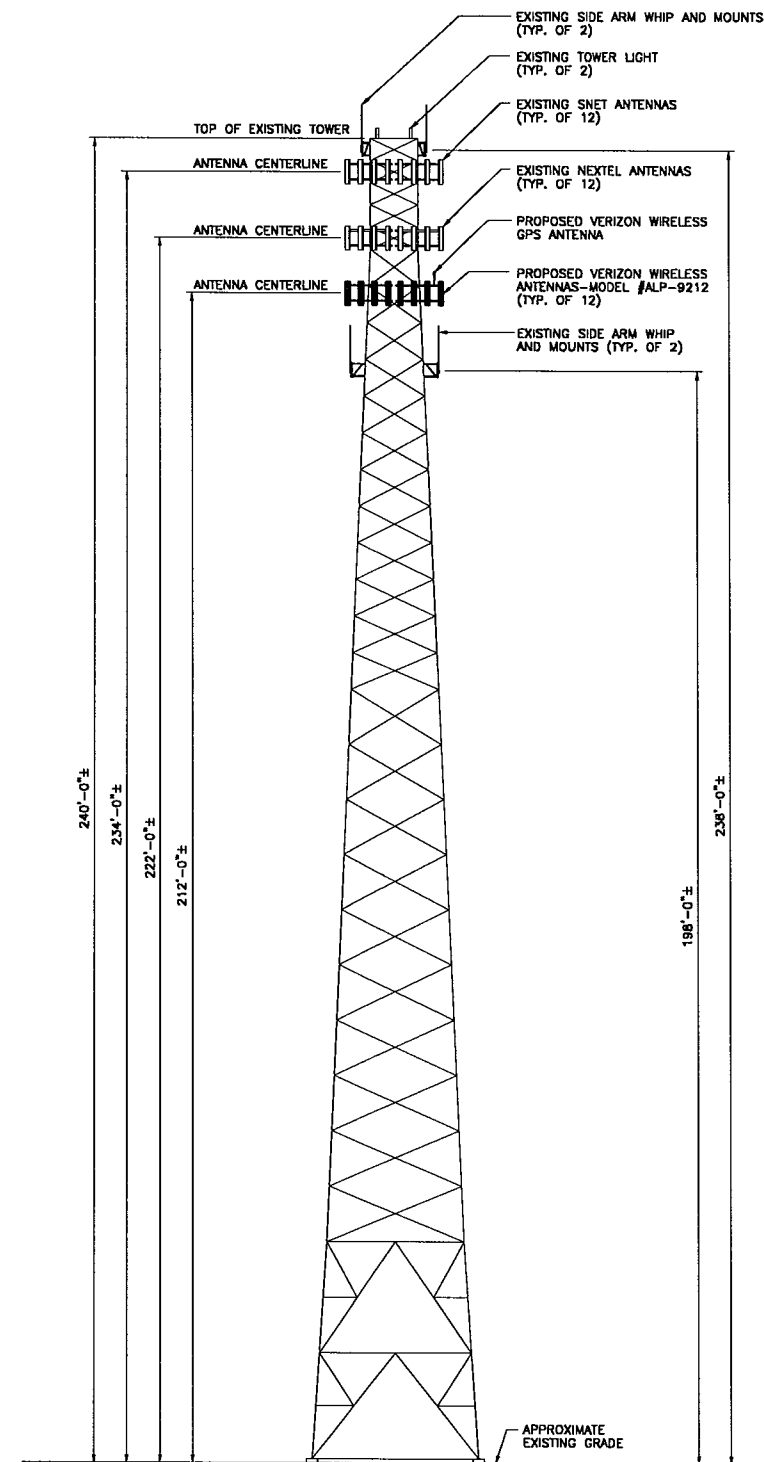
SCALE: AS NOTED

DATE: 06-06-00

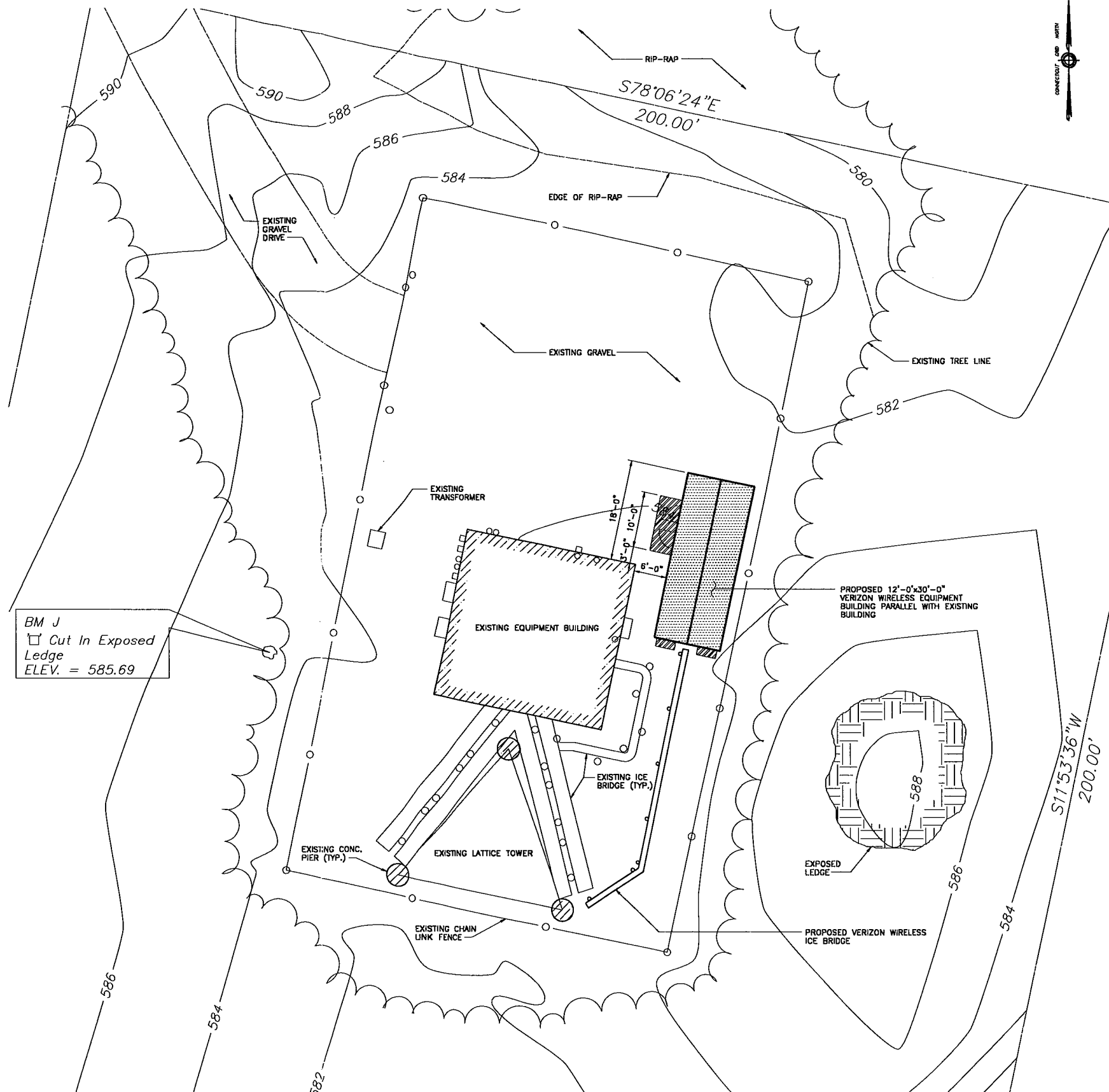
DRAWING 1 OF 1

**PROPOSED SITE  
PLAN AND TOWR  
ELEVATION**

SC-1



2 PROPOSED TOWER ELEVATION  
SCALE: 1/16" = 1'-0"



1 PROPOSED SITE PLAN  
SCALE: 1" = 10'-0"  
LATITUDE: 41°-20'-29"  
LONGITUDE: 73°-16'-31"