

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

January 25, 2005

Michele G. Briggs
Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-023-041229** - Southwestern Bell Mobile Systems, LLC d/b/a Cingular Wireless notice of intent to modify an existing telecommunications facility located at 650 Albany Turnpike, Canton, Connecticut.

Dear Ms. Briggs:

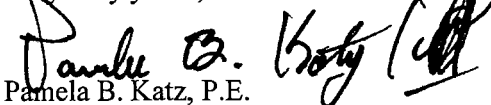
At a public meeting held on January 24, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 29, 2004, including the placement of all necessary equipment and shelters within the tower compound. 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.

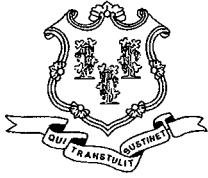
Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/laf

c: The Honorable Mary B. Tomolonius, First Selectman, Town of Canton
Sarajane S. Pickett, Town Planner, Town of Canton
Kenneth C. Baldwin, Esq., Robinson & Cole LLP



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December 30, 2004

The Honorable Mary B. Tomolonius
First Selectman
Town of Canton
4 Market Street
Collinsville, CT 06022-0168

RE: **EM-CING-023-041229** – Southwestern Bell Mobile Systems, LLC d/b/a Cingular Wireless notice of intent to modify an existing telecommunications facility located at 650 Albany Turnpike, Canton, Connecticut.

Dear Ms. Tomolonius:

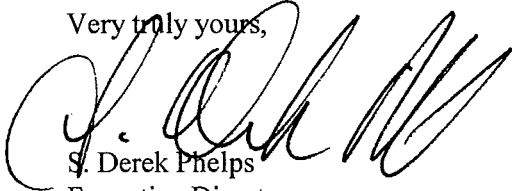
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for January 26, 2005 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by January 25, 2005.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Sarajane S. Pickett, Town Planner, Town of Canton



Southwestern Bell Mobile Systems, LLC
1000 Main Street Rocky Hill,
Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

December 29, 2004



CONNECTICUT
SITING COUNCIL

Ms. Pam Katz, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

**Re: Notice of Exempt Modification – Existing Verizon Telecommunications Tower Facility
at 650 Albany Turnpike, Canton, Connecticut**

Dear Chairman Katz:

Southwestern Bell Mobile Systems, LLC d/b/a Cingular Wireless (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower off Albany Turnpike in Canton, Connecticut.

The Canton facility is located at 650 Albany Turnpike (US Hwy 44), which is approximately 2 miles northwest of the intersection of Hwy 44 with US Hwy 202. Tower coordinates (NAD 83) are N 41° 51’ 02” and W 72° 56’ 55.4”. The facility is owned and operated by Verizon Wireless (“Verizon”), 180 Washington Valley Road, Bedminster, New Jersey 07921. Verizon leases the land from Edward Lally, Jr.

Please accept this letter as notification to the Council, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the 1st Selectman of Canton.

SBMS, the local component of the nationwide Cingular Wireless network, is licensed by the Federal Communications Commission (“FCC”) to provide cellular mobile telephone service in the Hartford, CT Metropolitan Statistical Area, which includes the area to be served by SBMS’ proposed installation. The public need for cellular service has been predetermined by the FCC.

Verizon has agreed to plans put forth by SBMS pursuant to mutually acceptable terms and conditions and has also authorized SBMS to obtain necessary government approvals. Attached to this Notice are a site location map, a proposed site plan, the proposed tower profile, and a structural analysis report that shows the tower is structurally capable of supporting the

proposed SBMS telecommunications equipment.

The Canton facility was approved by the Council in Docket 204 on February 14, 2002 as a 110 foot monopole, extendable to 150 feet by petition. The applicant was Crown Atlantic Company, but the Certificate has been transferred to Verizon. Verizon subsequently petitioned for a height increase to 120 feet, and this was approved by the Council on October 29, 2003.

The Albany Turnpike facility consists of a 120-foot monopole (expandable to 150 ft) within a 100' x 100' compound surrounded by chain link fence surrounded by barbed wire. Verizon currently operates antennas and associated equipment at the facility.

As shown on the attached drawings and as further described below, SBMS proposes to install up to six 75"-high Kathrein AP14/17-panel antennas, or their functional equivalents, with the center of radiation approximately 110 feet above ground level. Associated equipment to be installed on the tower are up to twelve dual-band tower top amplifiers ("TTA's"; small metal boxes approximately 18 pounds apiece) immediately behind the antennas.

SBMS also proposes to place a 12' x 20' prefabricated concrete equipment building at the base of the tower. All work will be done inside Verizon's existing equipment compound.

With the "GSM-only" configuration, SBMS will broadcast up to:

- 2 channels, 296 Watts ERP, 880 – 894 MHz; and
- 2 channels, 427 Watts ERP, 1930 – 1935 MHz.

Statutory Considerations

The changes to the Canton tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.
2. The proposed changes will not affect the property boundaries. All new construction will take place on property leased by Verizon and within the existing fence.
3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the currently proposed antenna array is as follows:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density [†] (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Verizon*	120	1970-1975	12	250	0.0749	1.0000	7.49
Cingular	110	880 - 894	2	296	0.0176	0.5867	3.00
Cingular	110	1930 - 1935	2	427	0.0254	1.0000	2.54
Total							13.03%

* Power density parameters provided by Verizon.

† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 13 % of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from SBMS' use of the tower facility would thus be within applicable standards.

For the foregoing reasons, SBMS respectfully submits that proposed changes to implement expanded shared use at the Canton site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 or Steve Schadler at (860) 513-7559 with questions concerning this application. Thank you for your consideration in this matter.

Respectfully yours,

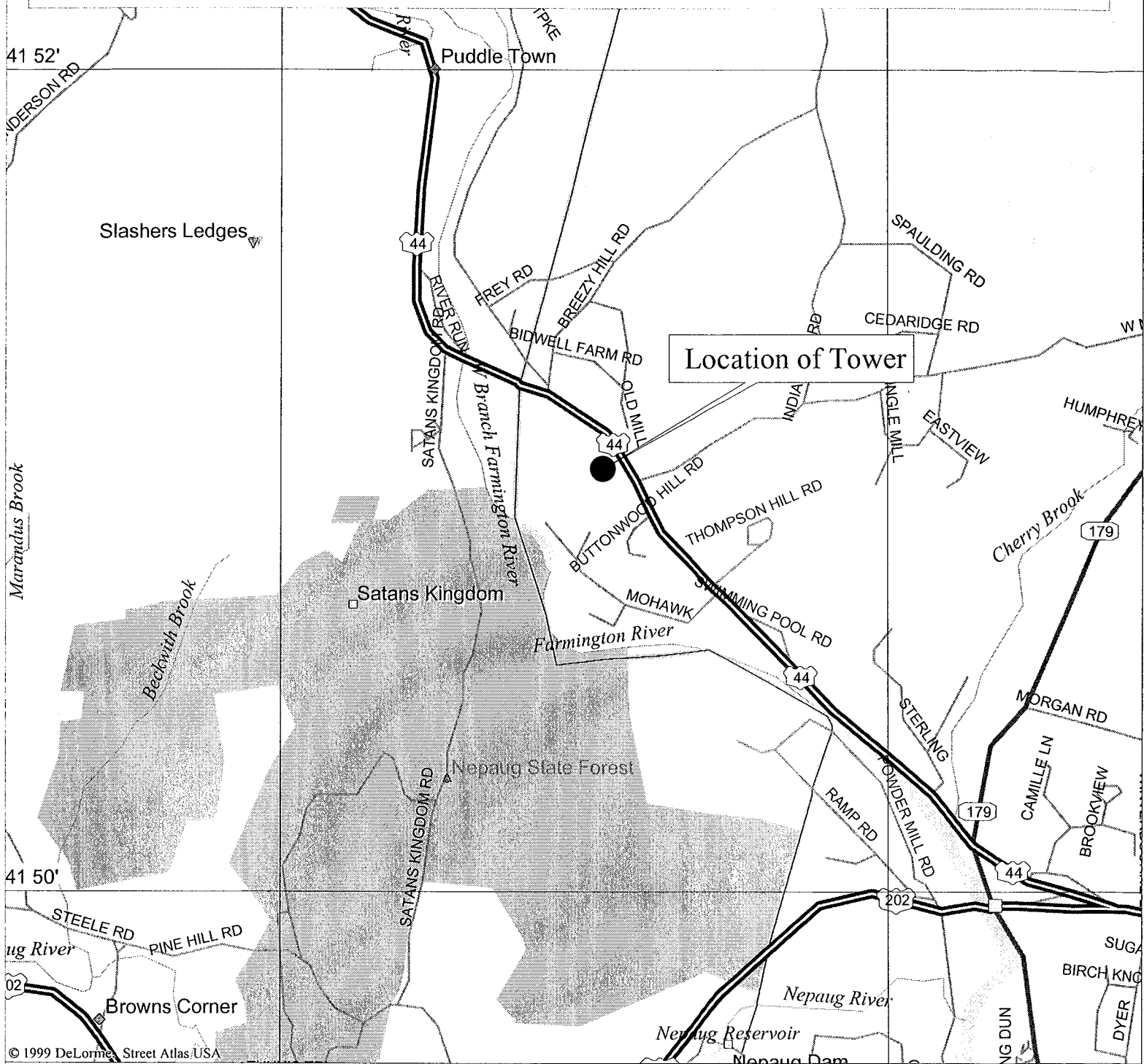


Michele G. Briggs
 Manager of Real Estate

Enclosures

cc: Honorable Mary B. Tomolonius, 1st Selectman, Town of Canton

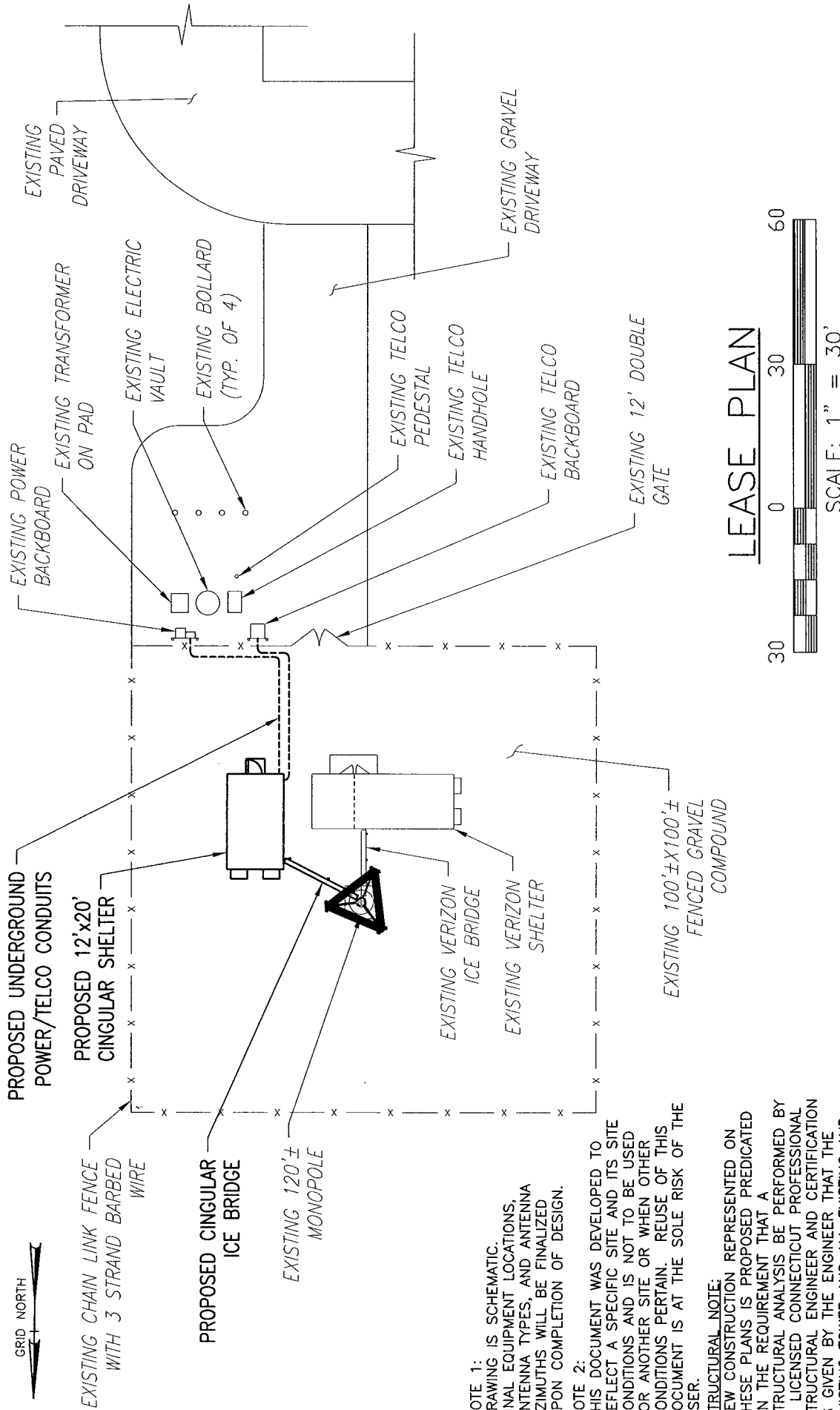
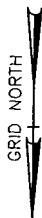
Canton - Verizon Tower - Rte 44



Mag 14.00
 Wed Dec 22 14:29 2004
 Scale 1:25,000 (at center)
 2000 Feet
 500 Meters

- | | |
|--------------------|-------------------|
| Local Road | Locale |
| State Route | County Boundary |
| US Highway | Water |
| Exit | State Park/Forest |
| Point of Interest | Woodland |
| Summit | River/Canal |
| Geographic Feature | |
| Park/Reservation | |

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LEASE PLAN

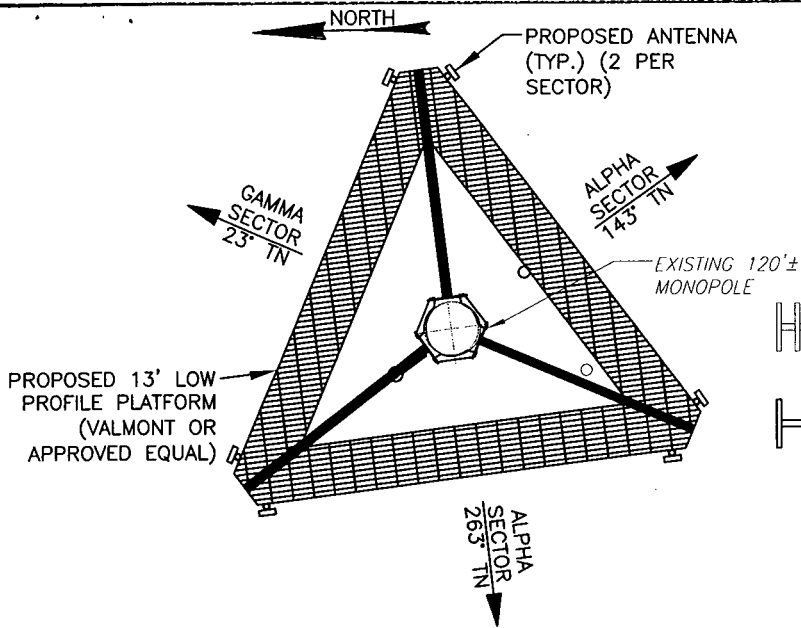


NOTE 1:
DRAWING IS SCHEMATIC.
FINAL EQUIPMENT LOCATIONS,
ANTENNA TYPES, AND ANTENNA
AZIMUTHS WILL BE FINALIZED
UPON COMPLETION OF DESIGN.

NOTE 2:
THIS DOCUMENT WAS DEVELOPED TO
REFLECT A SPECIFIC SITE AND ITS SITE
CONDITIONS AND IS NOT TO BE USED
FOR ANOTHER SITE OR WHEN OTHER
CONDITIONS PERTAIN. REUSE OF THIS
DOCUMENT IS AT THE SOLE RISK OF THE
USER.

STRUCTURAL NOTE:
NEW CONSTRUCTION REPRESENTED ON
THESE PLANS IS PROPOSED PREDICATED
ON THE REQUIREMENT THAT A
STRUCTURAL ANALYSIS BE PERFORMED BY
A LICENSED CONNECTICUT PROFESSIONAL
STRUCTURAL ENGINEER AND CERTIFICATION
IS GIVEN BY THE ENGINEER THAT THE
EXISTING TOWER AND ALL EXISTING AND
PROPOSED ANTENNAS AND
APPURTENANCES SUPPORTED BY THE
TOWER AND ANY REQUIRED IMPROVEMENTS
AND REINFORCEMENTS HAVE SUFFICIENT
STRUCTURAL CAPACITY AND COMPLY WITH
THE CONNECTICUT BUILDING CODE AND
ALL APPLICABLE EIA/TIA CRITERIA. NO
WORK PROPOSED HEREON SHALL BE
PROCESSED WITHOUT CONFIRMATION OF
THIS CERTIFICATION.

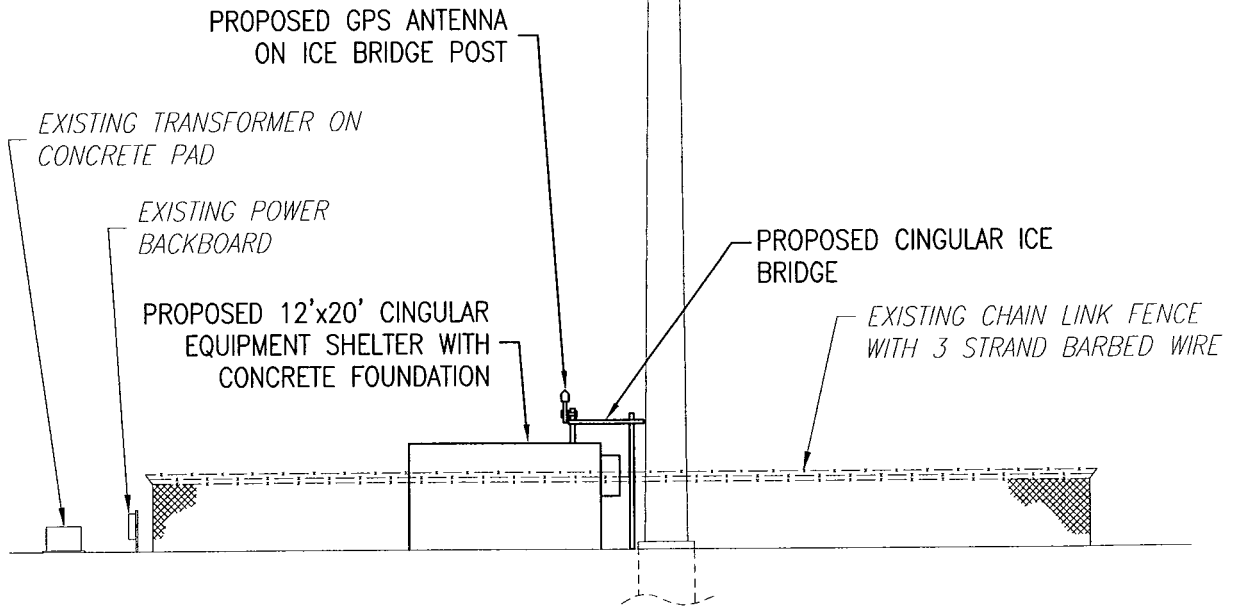
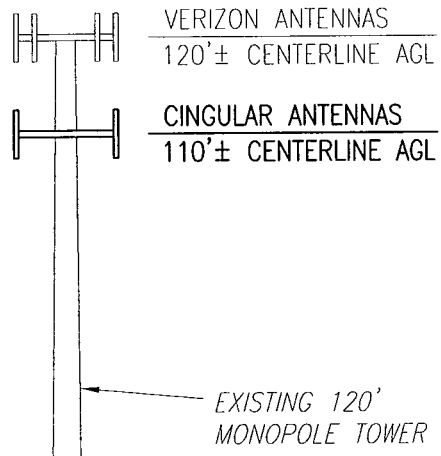
<p>Dewberry-Goodkind, Inc. A Dewberry Company 59 Elm Street, Suite 101 New Haven, CT 06510 P. (203) 776-2277 F. (203) 776-2288</p> <p>Engineers Planners Surveyors</p>		<p>LEASING PLAN</p>	
<p>SCALE: AS SHOWN</p>	<p>DESIGNED BY: CKD</p>	<p>SITE NAME: COLLINSVILLE 650 ALBANY TURNPIKE CANTON, CT 06019</p>	<p>SHEET NO. LE1</p>
<p>DATE: 12/15/04</p>			



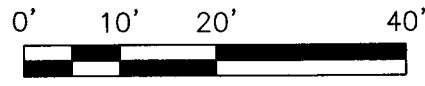
NOTE:
 ANTENNA AZIMUTHS AND MOUNTING DETAILS
 SHALL BE FINALIZED UPON COMPLETION OF
 SITE DESIGN.

TOP VIEW

SCALE: N.T.S.



EAST ELEVATION



R:\3750\14-Collinsville\CAD\Civil\LEASE\12_cingular.dwg By: MJS
 Plot: mscs.plt Layer: State: 12/28/04 1:35:22pm

Dewberry-Goodkind, Inc. A Dewberry Company 59 Elm Street, Suite 101 New Haven, CT 06510 p. (203) 776-2277 f. (203) 776-2288 Engineers Planners Surveyors	SCALE: AS SHOWN	LEASING ELEVATION	
	DESIGNED BY: CKD		
	DATE: 12/28/04		



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
250 East Broad Street • Suite 1500 • Columbus, Ohio 43215

December 20, 2004

Dewberry
59 Elm Street, Suite 101
New Haven, CT 06510-2047

Attn: Christopher Daddi

Re: Existing 120-ft Monopole
Located in Canton, CT: Collinsville Site
PJF Project #34804-0052

Dear Mr. Daddi:

Paul J. Ford and Company understands that Cingular Wireless proposes to collocate on the above referenced Verizon Wireless monopole. Paul J. Ford and Company was supplied with the monopole and foundation design drawings. The monopole was manufactured by Engineered Endeavors, Inc. per EEI project #11936 dated 09-10-2003. The monopole was designed to be extended to 150' for an 80 mph basic wind velocity under the following antenna loading:

Table 1 - Design Antenna Loading

Elev.	Antenna Description
150'	(12) Allgon 7120.16 Panel Antennas On a Low Profile Platform
140'	(12) Allgon 7120.16 Panel Antennas On a Low Profile Platform
130'	(12) Allgon 7120.16 Panel Antennas On a Low Profile Platform
120'	(12) Allgon 7120.16 Panel Antennas On a Low Profile Platform
110'	(12) Allgon 7120.16 Panel Antennas On a Low Profile Platform
100'	(12) Allgon 7120.16 Panel Antennas On a Low Profile Platform
70'	(2) GPS Antennas Flush Mounted

For this structural review, we were provided with antenna information regarding the existing and proposed antennas. Based on information provided, it is our understanding that the following antenna loading is to be considered for this structural review:

COLUMBUS, OHIO
(614) 221-6679
Fax (614) 448-4105

• ATLANTA, GEORGIA •
(404) 266-2407
Fax (404) 869-4608

• ORLANDO, FLORIDA •
(407) 898-9039
Fax (407) 897-3662

• www.pjfweb.com •

December 20, 2004

Page 2 of 2

Dewberry

Attn: Christopher Daddi

Re: Existing 120-ft Monopole
Located in Canton, CT: Collinsville Site
PJF Project #34804-0052

Table 2 - Proposed Antenna Loading

Status	Elev.	Antenna Description	Owner
Existing	120'	(12) Decibel DB950F85 Panel Antennas On a 14' Low Profile Platform	Verizon
Proposed	110'	(6) Scala AP14/17-880/1940 Panel Antennas + (12) TMA's On a 13' Low Profile Platform	Cingular

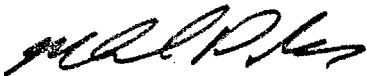
For this structural review we have compared design wind areas with wind areas from the existing and proposed antennas. Based on our comparison we have concluded that the existing and proposed antenna wind area will not exceed the wind areas from the original design. Therefore, the existing monopole will be capable of supporting the new antennas.

Paul J. Ford and Company has assumed that the original monopole and foundation were adequately designed to support the antennas listed in Table 1 and withstand the minimum required design wind velocity in the vicinity in which the pole is located. The existing monopole and foundation were assumed to be in good condition.

If you have any questions or concerns regarding the review of this monopole structure, please feel free to contact us at (614) 221-6679.

Sincerely,

PAUL J. FORD AND COMPANY

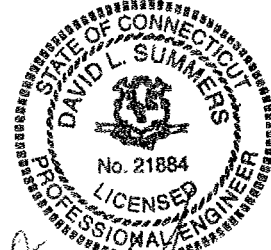


Michael Plahovinsak, E.I.T.

Project Engineer

e-mail: mplahovinsak@pjfweb.com

G:\TOWER\348_Dewberry-Goodkind\34804-052.doc



David L. Summers, P.E.

Department Manager



Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

December 29, 2004

Honorable Mary B. Tomolonius
1st Selectman, Town of Canton
Town Hall, 4 Market St.
Collinsville, Connecticut 06022-0168

Re: Notice of Exempt Modification – Existing Verizon Telecommunications Tower Facility at 650 Albany Turnpike, Canton, Connecticut

Dear Ms. Tomolonius:

Southwestern Bell Mobile Systems, LLC d/b/a Cingular Wireless (“SBMS”) intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower at 650 Albany Turnpike in Canton, Connecticut.

The facility is owned and operated by Verizon Wireless (“Verizon”), 180 Washington Valley Road, Bedminster, New Jersey 07921. Verizon leases the land from Edward Lally, Jr.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73. Please accept this letter as notification to the Town of Canton under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The attached letter fully sets forth the SBMS proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council’s procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Michele G. Briggs
Manager of Real Estate

Enclosure