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EM-VER-028-080616

ORIGINAL

June 16, 2008

Via Hand Delivery

S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification**
29 Mahoney Road, Colchester, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") intends to install antennas on the existing 180-foot self-supporting monopole owned by SBA Towers ("SBA") at 29 Mahoney Road in Colchester, Connecticut. Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for 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 Linda Hodge, First Selectman of the Town of Colchester. Pursuant to a Council directive, a copy of this letter is also being sent to Colchester Fish & Game Club, the owner of the property on which the tower is located.

The facility consists of a 180-foot self-supporting monopole tower capable of supporting multiple carriers within a fenced compound at 29 Mahoney Road in Colchester. The tower is currently shared by T-Mobile with antennas located at the 177-foot level and AT&T with antennas at the 157-foot level on the tower. Cellco intends to install six (6) LPA-171080/8CF antennas; six (6) LPA-80080/6CF antennas; and six (6) ETM/90G-12UB tower mounted amplifiers (TMAs) at the 167-foot level on the tower. Equipment associated with the Cellco antennas, including a diesel-fueled back-up generator, will be located within a 12' x 30' shelter located on the ground adjacent to the tower. Attached behind Tab 1 are Project Plans for the proposed Cellco facility.

The planned modifications to the Colchester 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 existing tower. Cellco's antennas and TMAs will be mounted with their centerline at the 167-foot level on the 180-foot tower.

2. The installation of the equipment shelter will not require an extension of the fenced compound or lease area.

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

4. The operation of the antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. The worst-case RF power density calculations for existing and Cellco antennas, including the TMAs, would be 11.68% of the FCC standard. A cumulative power density calculations table is included behind Tab 2.

Included behind Tab 3, is a Structural Letter confirming that the tower can support the existing and Cellco antennas, including TMAs, and associated equipment.

For the foregoing reasons, Cellco respectfully submits that the proposed antenna installation at the facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

Attachments
Copy to:
Linda Hodge, Colchester First Selectman
Colchester Fish & Game Club
Sandy M. Carter
Michelle Kababik

Cellco Partnership

d.b.a. verizon wireless

WIRELESS COMMUNICATIONS FACILITY

COLCHESTER EAST
29 MAHONEY ROAD
COLCHESTER, CT 06415

SITE DIRECTIONS

FROM: 89 EAST RIVER DRIVE, EAST HARTFORD, CONNECTICUT TO: 29 MAHONEY ROAD, COLCHESTER, CONNECTICUT

1. Start out going EAST on E RIVER DR.	0.0 MI.
2. Merge onto I-84 E/US-6 E via the ramp on the LEFT toward BOSTON.	0.3 MI.
3. Merge onto CT-2 E via EXIT 55 toward NORWICH/NEW LONDON.	25.5 MI.
4. Take the CHESTNUT HILL RD exit, EXIT 21.	0.2 MI.
5. Turn LEFT onto CHESTNUT HILL RD.	2.3 MI.
6. CHESTNUT HILL RD becomes MAHONEY RD.	0.2 MI.
7. End at 29 Mahoney Rd Colchester, CT 06415-2014.	

GENERAL NOTES

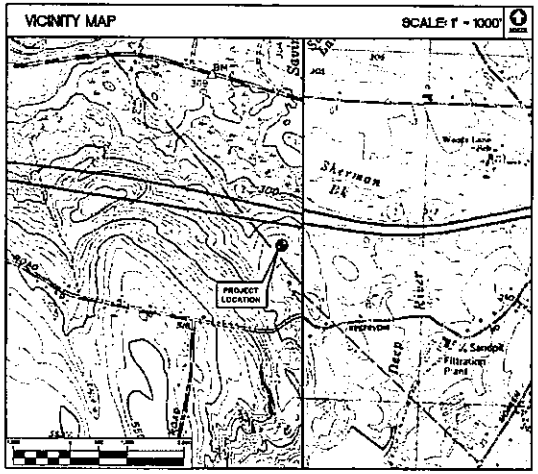
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELLCO PARTNERSHIP.

PROJECT SCOPE

1. THE PROPOSED SCOPE OF WORK GENERALLY INCLUDES THE INSTALLATION OF A 12'x30' PREFABRICATED WIRELESS EQUIPMENT SHELTER ON A CONCRETE FOUNDATION WITHIN THE EXISTING WIRELESS COMMUNICATIONS LEASE AREA.
2. A TOTAL OF TWELVE (12) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED ON AN EXISTING 150' TALL MONOPOLE TOWER AT A RAD CENTER ELEVATION OF 147' ABOVE THE EXISTING TOWER BASE PLATE.
3. ELECTRIC AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND TO THE PROPOSED EQUIPMENT SHELTER FROM AN EXISTING UTILITY BACKBOARD LOCATED WITHIN THE FENCED COMPOUND.

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

SITE NAME:	COLCHESTER EAST
SITE ADDRESS:	29 MAHONEY ROAD COLCHESTER, CT 06415
LESSEE/ TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 89 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELLCO PARTNERSHIP (860) 883-8219
TOWER COORDINATES:	LATITUDE 41°-33'-52.5" LONGITUDE 72°-15'-5.2"
	COORDINATES ARE BASED ON CONNECTICUT SITING COUNCIL DATABASE.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	A
C-1	COMPOUND PLAN AND ELEVATION	A

DESIGNED BY: CFC
DRAWN BY: CMS
CHK'D BY: DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
A	05/12/09	CMS	DMD	ISSUED FOR SITE REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership d.b.a. Verizon Wireless

NATSOURCE

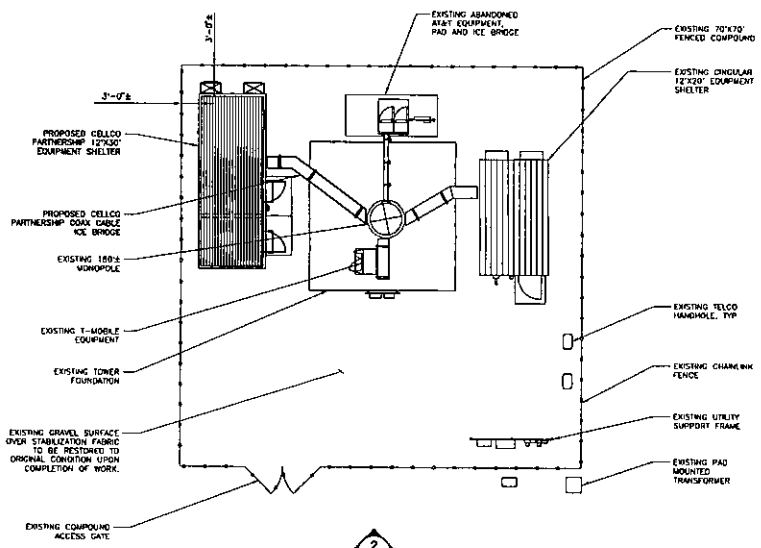
VERIZON WIRELESS
WIRELESS COMMUNICATIONS FACILITY
COLCHESTER EAST
29 MAHONEY ROAD
COLCHESTER, CT 06415

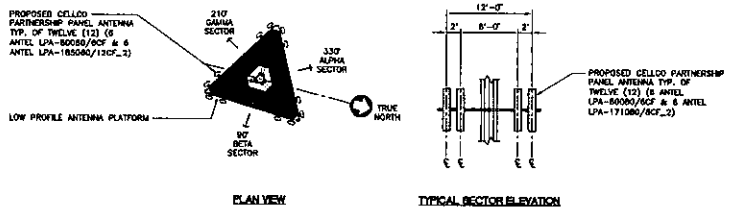
DATE: 05/12/09
SCALE: AS NOTED
JOB NO. 08081

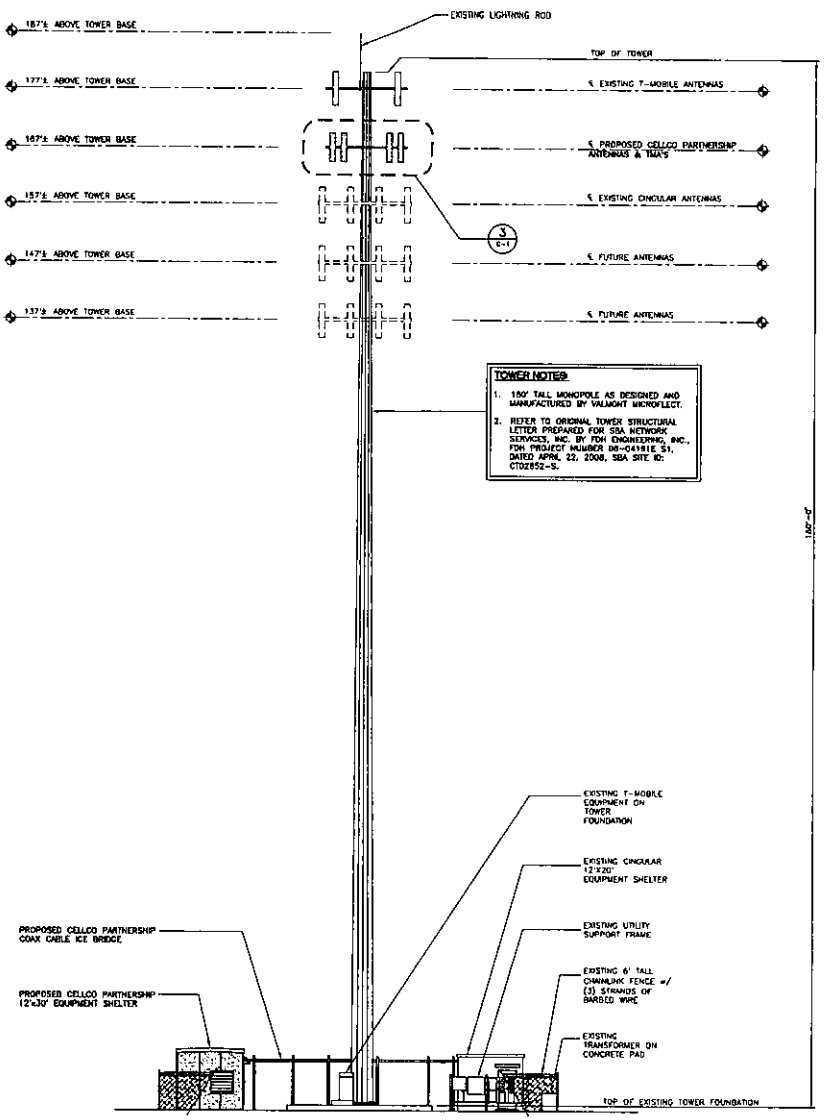
TITLE SHEET

T-1

Sheet No. 1 of 2







REV.	DATE	DRAWN BY	CHK'D	DESCRIPTION
A	05/12/08	CMS	PMD	ISSUED FOR CSC REVIEW

DESIGNED BY: CFC
DRAWN BY: CMS
CHK'D BY: DMD

PROFESSIONAL ENGINEER SEAL

Cellco Partnership d.b.a. Verizon Wireless

NATCOM

VERIZON WIRELESS
WIRELESS COMMUNICATIONS FACILITY
COLCHESTER EAST
29 MAHONEY ROAD
COLCHESTER, CT 06415

DATE: 05/12/08
SCALE: AS NOTED
JOB NO. 08061

COMPOUND PLAN AND ELEVATION

C-1

Sheet No. 2 of 2

	General	Power	Density					
Site Name: Colchester E								
Tower Height: Verizon @ 167Ft.								
CARRIER	**# OF CHAN.**	**WATTS ERP**	**HEIGHT**	**CALC. POWER DENS**	**FREQ.**	**MAX. PERMISS. EXP.**	**FRACTION MPE**	**Total**
*VoiceStream	4	250	182	0.0109	1945	1.0000	1.09%	
*Cingular	2	296	157	0.0086	880	0.5867	1.47%	
*Cingular	2	427	157	0.0125	1930	1.0000	1.25%	
Verizon	**9**	**200**	**167**	**0.0232**	**869**	**0.5793**	**4.01%**	
Verizon **	**6**	**500**	**167**	**0.0387**	**1900**	**1**	**3.87%**	
								11.68%
* Source: Siting Council								
** Including Tower Mounted Amplifiers (TMAs)								

FDH Engineering, Inc., 2730 Rowland Road, Suite 100, Raleigh, NC 27615, Ph. 919.755.1012, Fax 919.755.1031

April 22, 2008

Mark Luther
SBA Network Services, Inc.
800 S. Washington Ave.
Scranton, PA 18505

RE: 180 ft. Monopole
Site Name: Colchester 3
SBA Site ID: CT02652-S
FDH Project Number: 08-04161E S1

Dear Mark:

Per your request, FDH Engineering, Inc. has reviewed the original design drawings and the proposed loading for the 180' monopole located in Colchester, CT. The original design drawings by Valmont Microflect (Order No. 11277-00) stipulate the tower was designed to accommodate the appurtenance loading outlined in **Table 1**.

The load resulting from the current configuration (see **Table 2**) combined with Verizon's proposed loading of (6) Antel LPA-171080/8CF antennas, (6) Antel LPA-80080/6CF, and (6) Andrew ETM190G-12UB TMAs at 167 ft. with corresponding (12) 1-5/8" coax lines (see **Table 3**) will be below that of the original design loading. Furthermore, provided the foundation was constructed per the original design drawings, the foundation should meet *TIA/EIA-222-F* standards with both the proposed and existing appurtenances in place. The proposed coax should be installed inside the pole's shaft.

Our assessment has been made assuming all information provided to FDH Engineering is accurate and that the tower as been properly erected and maintained.

In conclusion, the Verizon installation should meet or exceed all applicable standards and should therefore be considered safe. Should you require additional information, please do not hesitate to contact our office.

Sincerely,

Adrian L. Creech

Adrian L. Creech, EI
Project Engineer

Reviewed By:

Christopher M. Murphy

Christopher M. Murphy, P.E.
Vice President
CT PE License No. 25842

Table 1 – Design Appurtenance Loading

No.	Centerline Elevation (ft)	Coax and Lines	Mount Type	Description
1-12	177	---	Platform w/o Rails	(12) DB896
13-24	170	---	Platform w/o Rails	(12) DB896
25-36	160	---	Platform w/o Rails	(12) DB896
37-48	150	---	Platform w/o Rails	(12) DB896
49-60	140	---	Platform w/o Rails	(12) DB896

Table 2 – Existing Appurtenance Loading

No.	Centerline Elevation (ft)	Coax and Lines	Carrier	Mount Type	Description
1-12	177	(12) 1-5/8" [1]	T-Mobile	Low Profile Platform	(12) EMS RR90-17-02DP (3) TMAs
13-24	157	(12) 1-5/8" [2]	Cingular	Low Profile Platform	(12) CSS DUO1417-8686-40 (6) ADC Clear Gain TMAs

1 Currently, T-Mobile has (3) antennas, (3) TMAs, and (6) coax installed at 177 ft. According to info provided by SBA, T-Mobile may install up to (12) antennas, (3) TMAs, and (12) coax.

2 Currently, Cingular has (9) antennas, (6) TMAs, and (9) coax installed at 157 ft. According to info provided by SBA, Cingular may install up to (12) antennas, (6) TMAs, and (12) coax.

Table 3 – Proposed Appurtenance Loading

No.	Centerline Elevation (ft)	Coax and Lines	Carrier	Mount Type	Description
1-12	167	(12) 1-5/8" [1]	Verizon	Low Profile Platform	(6) Antel LPA-171080/8CF (6) Antel LPA-80080/6CF (6) Andrew ETM190G-12UB TMAs