

RECEIVED
NOV - 8 2011
CONNECTICUT
SITING COUNCIL

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

November 4, 2011

ORIGINAL

Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Completion of Construction Activity**
EM-VER-064-110808 – 590-600 Asylum Street, Hartford, CT

Dear Ms. Roberts:

The purpose of this letter is to notify the Council that construction activity associated with the above-referenced facility modifications has been completed. If you have any questions or need any additional information regarding any of these facilities, please do not hesitate to contact me.

Sincerely,


Kenneth C. Baldwin



Law Offices

BOSTON

PROVIDENCE

HARTFORD

NEW LONDON

STAMFORD

WHITE PLAINS

NEW YORK CITY

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Copy to:
Sandy M. Carter



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@ct.gov

www.ct.gov/csc

August 26, 2011

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103

RE: **EM-VER-064-110808** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 590-600 Asylum Street, Hartford, Connecticut

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Not less than 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration;

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated August 5, 2011. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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. Thank you for your attention and cooperation.

Very truly yours,

Linda Roberts
Executive Director

LR/CDM/laf

c: The Honorable Pedro E. Segarra, Mayor, City of Hartford
David B. Panagore, Chief Operating Officer, City of Hartford
Roger J. O'Brien, Director of Planning, City of Hartford
Grove Hartford Associates, LP





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@ct.gov

www.ct.gov/csc

August 10, 2011

The Honorable Pedro E. Segarra
Mayor
City of Hartford
Municipal Building
550 Main Street
Hartford, CT 06103

RE: **EM-VER-064-110808** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 590-600 Asylum Street, Hartford, Connecticut.

Dear Mayor Segarra:

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.

If you have any questions or comments regarding this proposal, please call me or inform the Council by August 24, 2011.

Thank you for your cooperation and consideration.

Very truly yours,

Linda Roberts
Executive Director

LR/jbw

Enclosure: Notice of Intent

c: David B. Panagore, Chief Operating Officer, City of Hartford
Roger J. O'Brien, Director of Planning, City of Hartford

EM-VER-064-110808

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

ORIGINAL

August 5, 2011

RECEIVED
AUG - 8 2011
CONNECTICUT
SITING COUNCIL

Linda Roberts
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification
590-600 Asylum Street, Hartford, Connecticut**

Dear Ms. Roberts:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains fifteen (15) wireless telecommunications antennas at two levels on the roof of the building at the above-referenced address. The building is owned by Grove Hartford Associates, LP. The Council approved Cellco’s use of this roof-top in Petition No. 325 on August 9, 1994, and maintains jurisdiction over this telecommunications facility.

Cellco now intends to modify its facility by replacing ten (10) of its existing fifteen (15) antennas with four (4) newer model cellular antennas and six (6) newer model PCS antennas, and by adding a fourth sector of antennas consisting of two (2) model LPA-80040/4CF-5 cellular antennas; two (2) model LPA-185040/8CF PCS antennas; and one (1) model BXA 700-40/6CF LTE antenna. Once completed, Cellco will maintain a total of twenty (20) antennas at this location. The new (fourth) sector of antennas will be at the same height, above ground level, on the building as the existing Gamma Sector antennas. Cellco will also install six additional coax cables. Attached behind Tab 1 are project plans for the proposed modifications.

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 Pedro E. Segarra, Mayor for the City of Hartford. A copy of this letter is also being sent to Grove Hartford Associates, LP, the owner of the property at 590-600 Asylum Street.



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BOSTON

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WHITE PLAINS

NEW YORK CITY

ALBANY

SARASOTA

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10970254-v1

Linda Roberts
August 5, 2011
Page 2

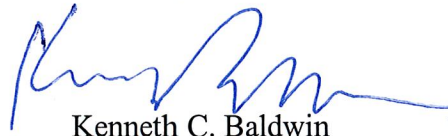
The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in any increase in any antenna height. Cellco's replacement antennas will be located at the same level, as the existing antennas. The new (fourth) sector antennas will be located at the same height, above ground level, as the existing Gamma Sector antennas and will not extend above the tallest portion of the building.
2. The proposed modifications will not involve any changes to ground or roof-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more.
4. The operation of the new and replacement 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. An updated power density table for the modified facility is included behind Tab 2.

Also attached is a Structural Certification Letter confirming that the roof can support Cellco's proposed modifications. (See Tab 3).

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Kenneth C. Baldwin

Enclosures
Copy to:

Pedro E. Segarra, Hartford Mayor
Grove Hartford Associates, LP
Sandy M. Carter



Cellco Partnership

d.b.a. **verizon** wireless

WIRELESS COMMUNICATIONS FACILITY

HARTFORD WEST
590 ASYLUM AVENUE
HARTFORD, CT 06105

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	08/02/11	DMD	CFC	ISSUED FOR CT SITING COUNCIL
0	07/26/11	DMD	CFC	ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. **verizon** wireless

CEN TEK engineering
Combined Solutions™
(203) 488-0580
(203) 488-0587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CenTekEng.com

VERIZON WIRELESS
WIRELESS COMMUNICATIONS FACILITY
HARTFORD WEST
590 ASYLUM AVENUE
HARTFORD, CT 06105

DATE: 6/30/11
SCALE: AS NOTED
JOB NO. 10176.CO1

TITLE SHEET

T-1

Sheet No. 1 of 4

PROJECT SUMMARY

SITE NAME: HARTFORD WEST
SITE ADDRESS: 590 ASYLUM AVENUE
HARTFORD, CT 06105
PROPERTY OWNER: MATP LLC
10 GLENVILLE STREET
C/O MILL MGMT, INC.
GREENWICH, CT 06831
LESSEE/TENANT: CELCO PARTNERSHIP
d.b.a. CELLCO PARTNERSHIP
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108
CONTACT PERSON: SANDY CARTER
CELLCO PARTNERSHIP
(860) 803-8219
ENGINEER: CENTEK ENGINEERING, INC.
63-2 NORTH BRANFORD ROAD
BRANFORD, CT 06405
(203) 488-0580
SITE COORDINATES: LATITUDE 41°-46'-08.153"
LONGITUDE 72°-41'-05.600"
GROUND ELEVATION: 71.3'± A.M.S.L.
COORDINATES AND GROUND ELEVATION BASED ON FAA 2C
SURVEY CERTIFICATION PREPARED BY MARTINEZ COUCH
AND ASSOCIATES L.L.C., DATED MAY 20, 2011, REVISED
JULY 26, 2011.

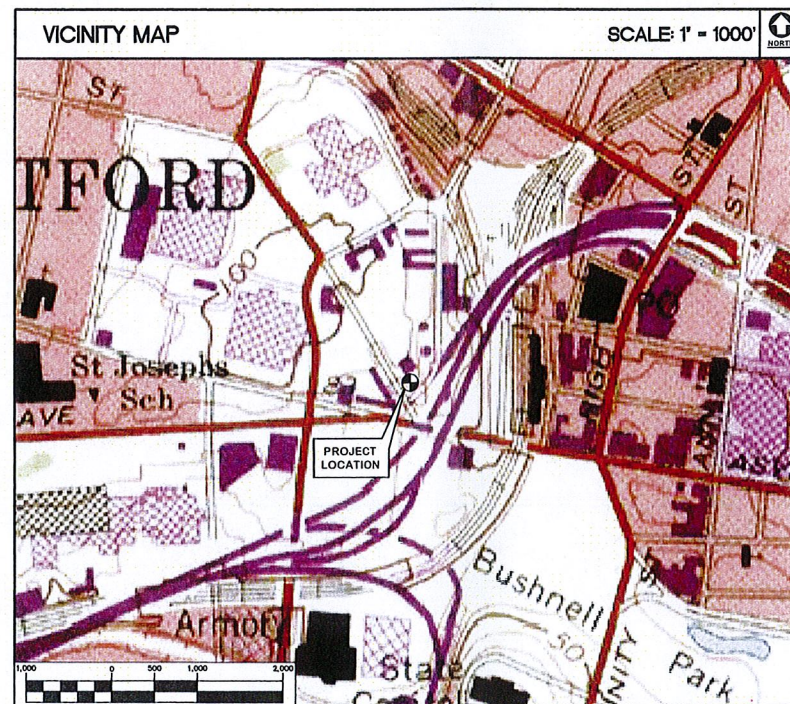
SHEET INDEX

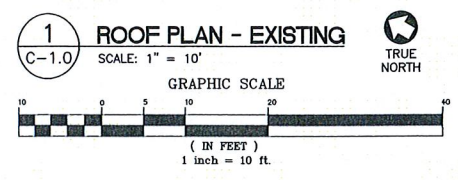
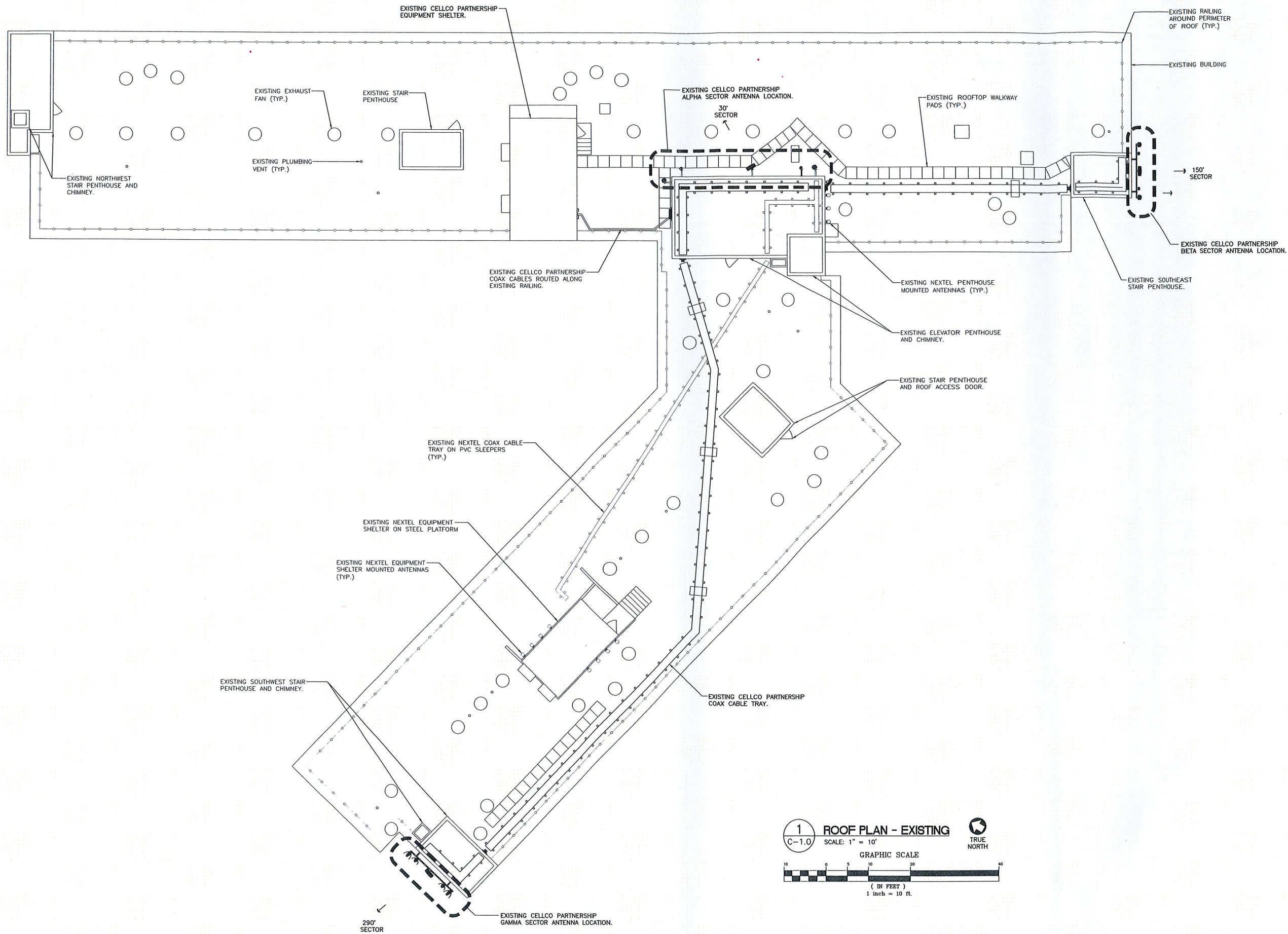
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
C-1.0	ROOF PLAN (EXISTING)	1
C-1.1	ROOF PLAN (PROPOSED)	1
C-2	ELEVATIONS AND DETAILS	1

SITE DIRECTIONS	
FROM: 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	TO: 590 ASYLUM AVENUE HARTFORD, CONNECTICUT
1. Start out going East on E RIVER DR. toward DARLIN ST.	0.3 mi
2. Turn LEFT to stay on E RIVER DR.	0.07 mi
3. Take the first LEFT to stay on CONNECTICUT BLVD/US-44.	0.2 mi
4. Merge onto I-84 W/US-6 W via the ramp on the LEFT toward HARTFORD.	1.3 mi
5. Take EXIT 48 toward ASYLUM STREET.	0.07 mi
6. Stay straight to go onto SPRING STREET.	0.07 mi
7. Turn RIGHT onto ASYLUM AVENUE.	0.01 mi
8. 590 ASYLUM AVENUE is on the Right.	

GENERAL NOTES
1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

SITE INFORMATION
THE SCOPE OF WORK SHALL INCLUDE:
1. THE REPLACEMENT OF (10) OF THE EXISTING (15) FACADE MOUNTED PANEL ANTENNAS AND THE INSTALLATION OF AN ADDITIONAL SECTOR OF (5) PANEL ANTENNAS FOR A TOTAL OF (20) PANEL ANTENNAS.
2. ADDITION OF ANTENNA MOUNTS FOR ADDED SECTOR AND COAX CABLE TRAY LAYOUT RECONFIGURATION.
3. ALL PROPOSED ANTENNAS, ANTENNA MOUNTS, EXPOSED COAX CABLES AND CABLE TRAY WILL BE PAINTED TO MATCH COLOR OF THE EXISTING BUILDING FACADE.
4. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
5. THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
6. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.





DESIGNED BY:	CFC
DRAWN BY:	DEB
CHK'D BY:	CFC
ISSUED FOR CT SITING COUNCIL	CFC
ISSUED FOR CT SITING COUNCIL	CFC
DRAWN BY	CHK'D BY
DATE	DESCRIPTION
1 08/02/11	DMD CFC
0 07/26/11	DMD CFC
REV.	DATE

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. verizon wireless

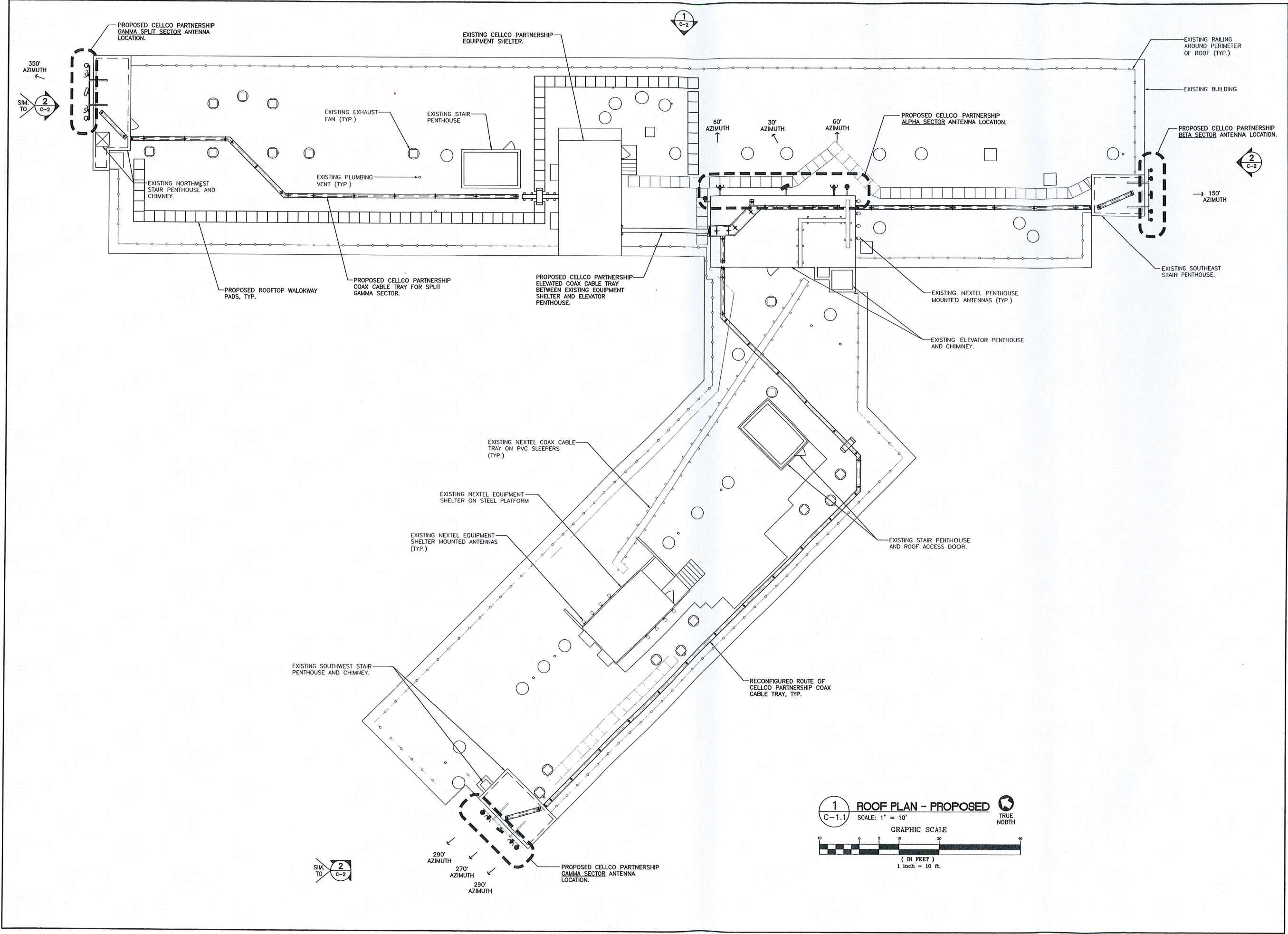
CEN TEK engineering
Changing on solutions
203 488-6986 Fax
432 North Branford Road
Branford, CT 06405
www.Centekeng.com

VERIZON WIRELESS
WIRELESS COMMUNICATIONS FACILITY
HARTFORD WEST
590 ASYLUM AVENUE
HARTFORD, CT 06105

DATE: 6/30/11
SCALE: AS NOTED
JOB NO. 10176.C01

ROOF PLAN
(EXISTING)

C-1.0
Sheet No. 2 of 4



1 ROOF PLAN - PROPOSED
 C-1.1 SCALE: 1" = 10'
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 10 ft.

DESIGNED BY:	CFC		
DRAWN BY:	DMD		
CHK'D BY:	CFC		
ISSUED FOR CT SITING COUNCIL	CFC		
ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW	CFC		
DATE	DRAWN BY	CHK'D BY	DESCRIPTION
08/02/11	DMD	CFC	
07/26/11	DMD	CFC	
REV.	DATE	DRAWN BY	CHK'D BY
1			
0			

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
 d.b.a. verizon wireless

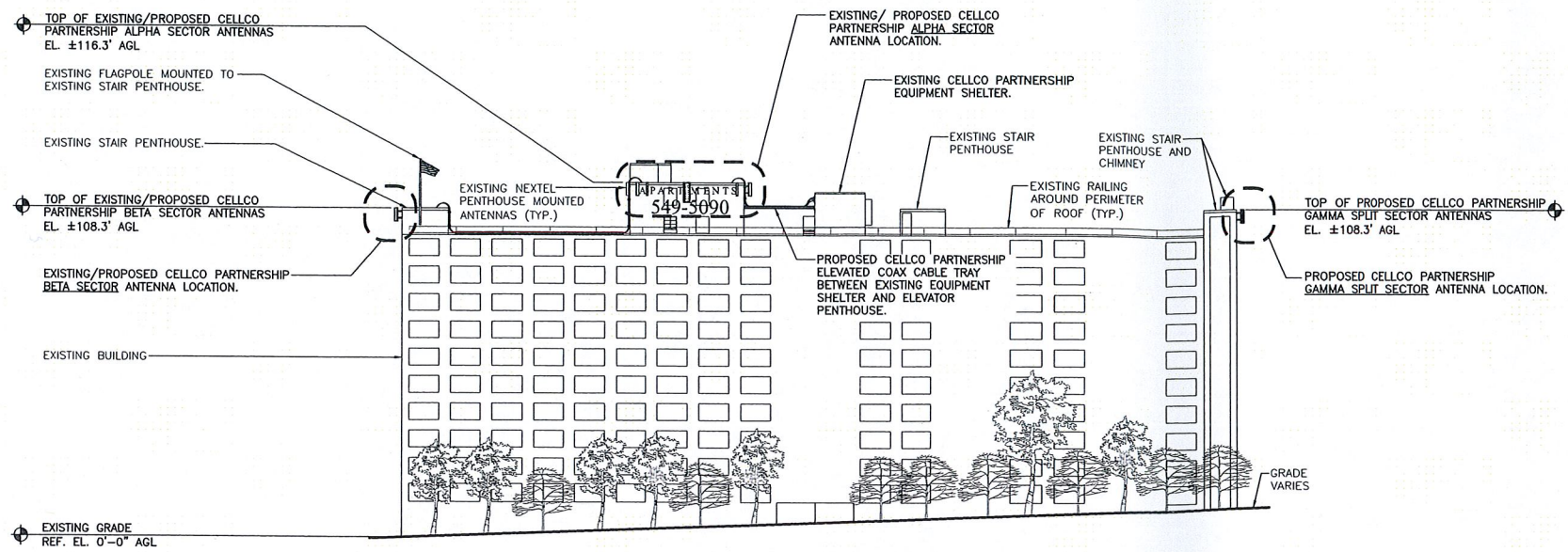
CEN TEK engineering
 Changing on solutions
 (203) 488-0860
 (203) 488-8887 Fax
 1000 River Road
 Branford, CT 06405
 www.centekeing.com

VERIZON WIRELESS
 WIRELESS COMMUNICATIONS FACILITY
HARTFORD WEST
 590 ASYLUM AVENUE
 HARTFORD, CT 06105

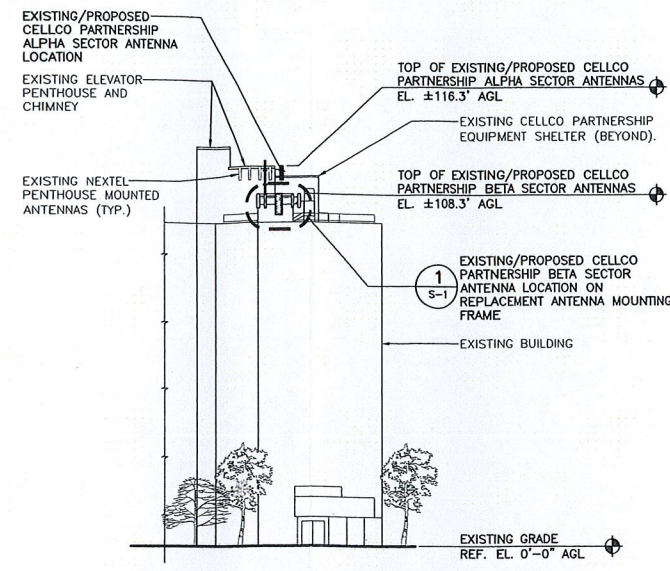
DATE: 6/30/11
 SCALE: AS NOTED
 JOB NO. 10176.C01

ROOF PLAN
 (PROPOSED)

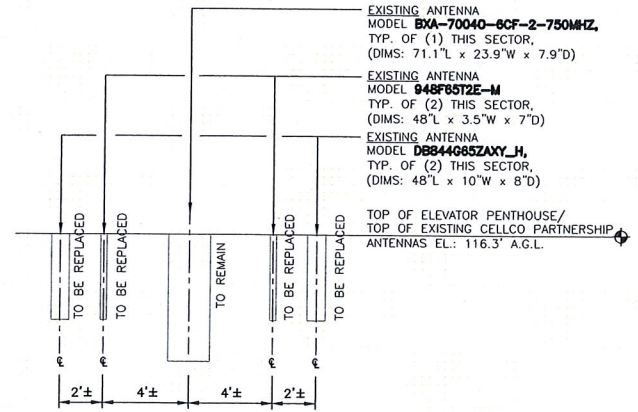
C-1.1
 Sheet No. 3 of 4



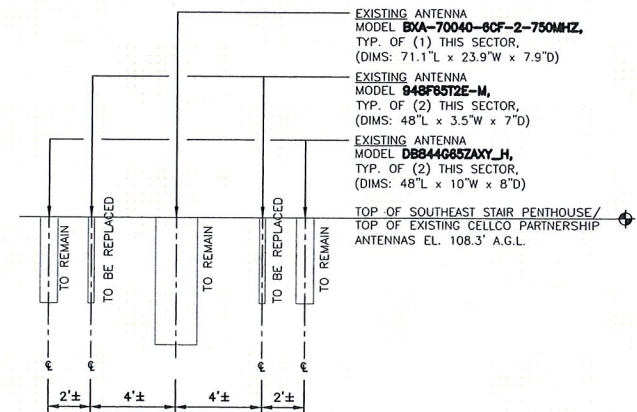
1 NORTHEAST ELEVATION - PROPOSED
 C-2 SCALE: 1" = 25'
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 25 ft.



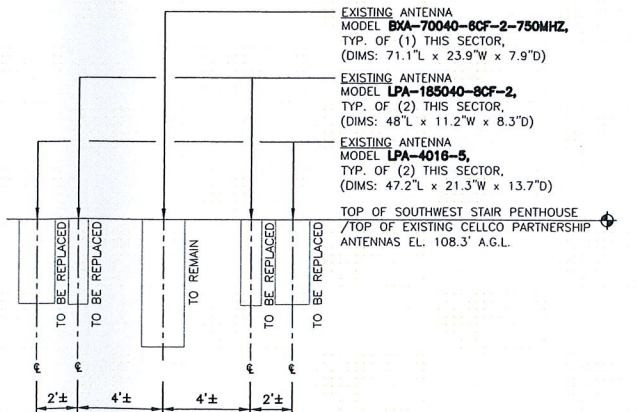
2 PARTIAL SOUTHEAST ELEVATION - PROPOSED
 C-2 SCALE: 1" = 25'
 GRAPHIC SCALE
 (IN FEET)
 1 inch = 25 ft.



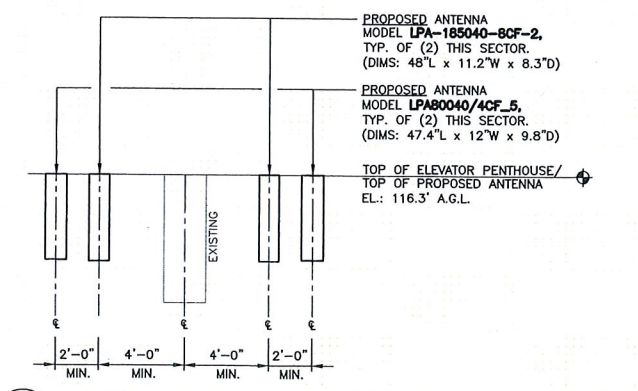
3 ANTENNA MOUNTING CONFIGURATION (EXISTING)
 C-2 SCALE: N.T.S.
 (ALPHA SECTOR)



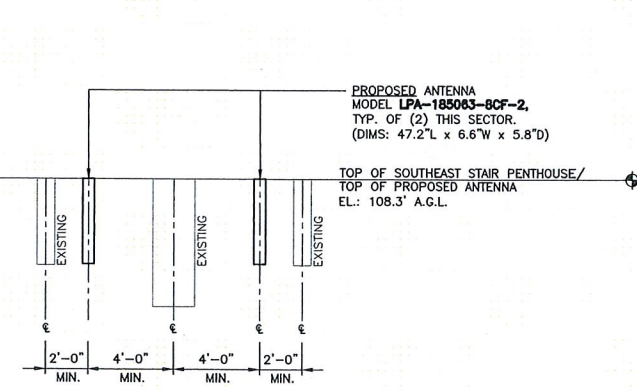
4 ANTENNA MOUNTING CONFIGURATION (EXISTING)
 C-2 SCALE: N.T.S.
 (BETA SECTOR)



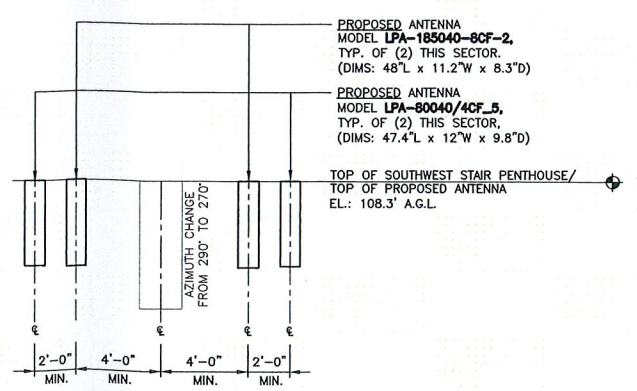
5 ANTENNA MOUNTING CONFIGURATION (EXISTING)
 C-2 SCALE: N.T.S.
 (GAMMA SECTOR)



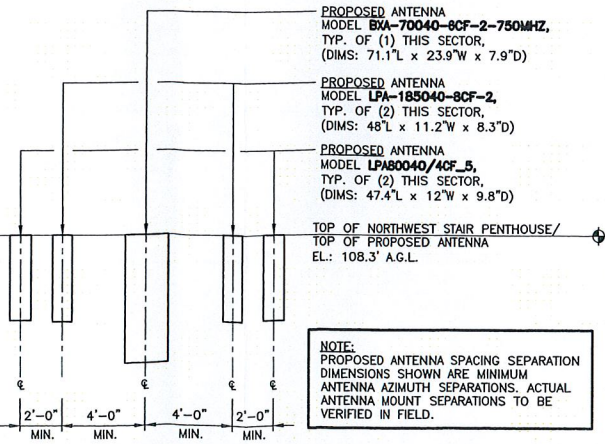
3A ANTENNA MOUNTING CONFIGURATION (PROPOSED)
 C-2 SCALE: N.T.S.
 (ALPHA SECTOR)



4A ANTENNA MOUNTING CONFIGURATION (PROPOSED)
 C-2 SCALE: N.T.S.
 (BETA SECTOR)



5A ANTENNA MOUNTING CONFIGURATION (PROPOSED)
 C-2 SCALE: N.T.S.
 (GAMMA SECTOR)



6 ANTENNA MOUNTING CONFIGURATION (PROPOSED)
 C-2 SCALE: N.T.S.
 (GAMMA SPLIT SECTOR)

NOTE: PROPOSED ANTENNA SPACING SEPARATION DIMENSIONS SHOWN ARE MINIMUM ANTENNA AZIMUTH SEPARATIONS. ACTUAL ANTENNA MOUNT SEPARATIONS TO BE VERIFIED IN FIELD.

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

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	08/02/11	DMD	CFC	ISSUED FOR CT SITING COUNCIL - CLIENT REVIEW
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PROFESSIONAL ENGINEER SEAL

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 d.b.a. verizon wireless

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 www.centekeng.com

VERIZON WIRELESS
 WIRELESS COMMUNICATIONS FACILITY
HARTFORD WEST
 590 ASYLUM AVENUE
 HARTFORD, CT 06105

DATE: 6/30/11
 SCALE: AS NOTED
 JOB NO. 10176.C01

ELEVATIONS AND DETAILS

C-2
 Sheet No. 4 of 4

General Power Density

Site Name: Hartford West, CT
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW PCS	1970	11	340	3740	99	0.1372	1.0	13.72%
VZW Cellular	869	9	343	3087	99	0.1133	0.579333	19.55%
VZW 700	757	1	879	879	99	0.0323	0.497333	6.49%
Total Percentage of Maximum Permissible Exposure								39.76%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

August 02, 2011

Mr. Jim Smith
Verizon Wireless
99 East River Drive
East Hartford, CT 06108

*Re: Structural Certification Letter ~ LTE Antenna Upgrade/ Sector Split
Verizon Wireless Site Ref ~ Hartford West
600 Asylum Avenue,
Hartford, CT 06105*

Centek Project No. 10176.CO1

Dear Mr. Smith,

Centek Engineering, Inc. has reviewed the proposed Verizon Wireless LTE antenna upgrade at the above referenced site. The purpose of the review is to determine the structural adequacy of the existing ten (10) story, 110-ft +/- tall host building to support the proposed modified antenna configuration. The existing antenna installation consists of three (3) antenna sectors, pipe mounted to three (3) existing penthouse structures of the host building. The proposed antenna installation consists of selective antenna replacements within the three (3) existing sectors and the addition of a fourth antenna sector pipe mounted to a fourth existing penthouse structure.

The review considered the effects of wind load, dead load, ice load and seismic forces in accordance with TIA/EIA-222-F and the 2005 Connecticut State Building Code as amended by the 2009 CT State Supplement.

The existing, proposed and future Verizon Wireless loads considered in this analysis consist of the following:

▪ Verizon (Existing to Remain):

Antennas:

Alpha Sector: One (1) Antel BXA 70040/6CF mounted to existing antenna pipe mounts with a RAD center elevation of 113-ft+/-AGL.

Beta Sector: One (1) Antel BXA 70040/6CF and two (2) Andrew 844G65ZAXY panel antennas mounted to existing antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL.

Gamma Sector: One (1) Antel BXA 70040/6CF mounted to existing antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL

Coax: Twelve (12) 1-5/8in dia. coaxial cables routed within the existing roof top mounted cable trays.

CEN TEK engineering, INC.
Structural Certification Letter
Verizon Wireless ~ Hartford West
600 Asylum Avenue,
Hartford, CT 06105

▪ Verizon (Existing to be Removed):

Antennas:

Alpha Sector: Two (2) Andrew 948F65T2E-M panel antennas and two (2) Decibel DB844G65ZAXY_H panel antennas mounted to existing antenna pipe mounts with a RAD center elevation of 113-ft+/-AGL.

Beta Sector: Two (2) Decibel DB844G65ZAXY_H panel antennas mounted to existing antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL.

Gamma Sector: Two (2) Antel LPA-4016-5 panel antennas and two (2) Antel LPA 185040-8CF panel antennas mounted to existing antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL.

▪ Verizon (Proposed):

Antennas:

Alpha Sector: Two (2) Antel LPA 80040/4CF panel antennas and two (2) Antel LPA-185040-8CF-2 panel antennas mounted to existing antenna pipe mounts with a RAD center elevation of 113-ft+/-AGL.

Beta Sector: Two (2) Antel LPA 185063/8CF panel antennas mounted to existing antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL.

Gamma Sector: Two (2) Antel LPA 80040/4CF panel antennas and two Antel LPA-185040-8CF mounted to existing antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL.

Gamma Split Sector: Two (2) Antel LPA 80040/4CF panel antennas, two (2) Antel LPA-185040-8CF panel antennas and one (1) Antel BXA-70040-6CF-2 panel antennas mounted to proposed antenna pipe mounts with a RAD center elevation of 105-ft+/-AGL.

Coax: Twelve (12) 1-5/8in dia. coaxial cables routed within the existing/reconfigured roof top mounted cable trays.

The proposed Verizon Wireless antenna upgrade meets the requirements of the TIA/EIA-222-F Standard considering the basic wind speed (fastest mile) of 80 mph for Hartford County which controls over the basic wind speed (fastest mile) of 77.5 mph for Hartford (equivalent to 95 mph 3-second gust wind speed as required in Appendix K of the Connecticut supplement per Table 1609.3.1).

In conclusion, the proposed Verizon LTE antenna upgrade will not negatively impact the structural integrity of the existing host building. If there are any questions regarding this matter, please feel free to call.

Respectfully Submitted by:



Carlo F. Centore, PE
Principal ~ Structural Engineer

