

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
 :
 :
 A PETITION OF CELLCO PARTNERSHIP : PETITION NO. _____
 D/B/A VERIZON WIRELESS FOR A :
 DECLARATORY RULING ON THE NEED TO :
 OBTAIN A SITING COUNCIL CERTIFICATE :
 FOR THE INSTALLATION OF A SMALL :
 CELL TELECOMMUNICATIONS FACILITY :
 AT 37 MAIN STREET, JEWETT CITY :
 (GRISWOLD), CONNECTICUT : JUNE 18, 2015

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that no Certificate of Environmental Compatibility and Public Need (“Certificate”) is required under Section 16-50k(a) of the Connecticut General Statutes (“C.G.S.”) to install a new “small cell” telecommunications facility on an existing mixed use (commercial and residential) building at 37 Main Street in Jewett City (Town of Griswold), Connecticut (the “Property”). The Property is owned by Soulor Main LLC. Cellco has designated this site as its “Jewett City SC1 Facility”.

II. Factual Background

The Property is a 0.43-acre parcel in the Borough of Jewett City’s Commercial zone and is surrounded by other commercial and mixed use buildings in Jewett City. See Attachment 1 – Site Vicinity and Site Schematic Maps (Aerial Photograph). Cellco is licensed to provide

wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges throughout the State of Connecticut. Initially, the proposed Jewett City SC1 Facility described above will provide wireless service in Cellco's 2100 MHz frequency range only. Coverage plots showing Cellco's 2100 MHz service in Jewett City today and the coverage footprint for the proposed Jewett City SC1 Facility are included in Attachment 2.

As shown on the coverage plots, Cellco currently maintains two (2) cell sites within approximately two (2) miles of the proposed Jewett City SC1 Facility. Cellco's existing Lisbon, CT cell site consists of antennas on an existing tower at 26 Mell Road in Lisbon. Cellco's Jewett City cell site consists of antennas on an existing tower at 257 Norman Road in Jewett City. The proposed Jewett City SC1 Facility will provide service to significant gaps at 2100 MHz, along portions of Routes 12, 138 and 164, Interstate 395 and local roads in the area. The Jewett City SC1 Facility will also provide capacity relief to Cellco's existing Jewett City cell site.

III. Proposed Jewett City SC1 Facility

The proposed Jewett City SC1 Facility would consist of a single canister-type antenna and remote radio head ("RRH") located inside a small unipole-type tower on the roof of the building. The unipole will be designed to mimic the appearance of a chimney stack. The unipole tower will extend approximately 8 feet above the upper roof of the building. Equipment associated with the Jewett City SC1 Facility will be located inside the basement of the building. Power and telephone service to the Jewett City SC1 Facility will extend from existing service at or adjacent to the Property. (See Cellco's Project Plans included in Attachment 3).

Specifications for the small cell antenna (Commscope Model HBX-6513DS-VTM) and RRH (Model 2X60-AWS) are included in Attachment 4.

IV. Discussion

A. The Proposed Facility Modifications Will Not Have A Substantial Adverse Environmental Effect

The Public Utility Environmental Standards Act (the “Act”), C.G.S. § 16-50g *et seq.*, provides for the orderly and environmentally compatible development of telecommunications towers in the state to avoid “a significant impact on the environment and ecology of the State of Connecticut.” C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers “that may, as determined by the council, have a substantial adverse environmental effect”. C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the installation of a small unipole-type tower concealing a single canister antenna and RRH and the installation of equipment inside the existing building, will not involve a significant alteration in the physical and environmental characteristics of the Property. No new ground disturbance of any kind is necessary or proposed as a part of the Jewett City SC1 Facility installation.

2. Visual Effects

The installation of a unipole-type tower supporting and concealing a single antenna and RRH on the roof of the existing building at the Property would have minimal visual effects on the Property and the surrounding area. (*See Limited Visual Assessment and Photo-Simulations (“Visual Report”) included in Attachment 5*). As discussed in the attached Visual Report, the visibility of Cellco’s unipole structure disguised as a chimney stack would be limited to locations within approximately two blocks of the Property and would appear as an existing part of the building’s existing heating exhaust system. As such, Cellco has determined that the small cell

facility components would not have a significant impact on aesthetics in the area.

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed installation will be far below the standards adopted by the Federal Communications Commission (“FCC”). Included in Attachment 6 is a General Power Density table, including a calculation that demonstrates that the Jewett City SC1 Facility will operate well within the FCC safety standard.

4. FAA Summary Report

Included in Attachment 7 is a Federal Airways & Airspace Summary Report verifying that the unipole tower attached to the roof of the building at the Property would not constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

B. Notice to the Town, the Property Owner and Abutting Landowners

On June 18, 2015, a copy of this Petition was sent to Griswold’s First Selectman Kevin A. Skulczyck and to Soulor Main LLC, the owner of the Property. Because the Property is located within 2,500 feet of the Lisbon town line, a copy of this Petition was also sent to Lisbon’s First Selectman Thomas W. Sparkman. Included in Attachment 8 are copies of the letters sent to Mr. Skulczyck, Mr. Sparkman and Soulor Main LLC.

A copy of the Petition was also sent to each owner of land that abuts the Property. A sample abutter’s letter, and the list of those abutting landowners who were sent notice of the filing of the Petition is included in Attachment 9.

V. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination in the form of a declaratory ruling that the installation of a small unipole tower on the roof of the building and a small equipment cabinet inside the building, will not have

a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

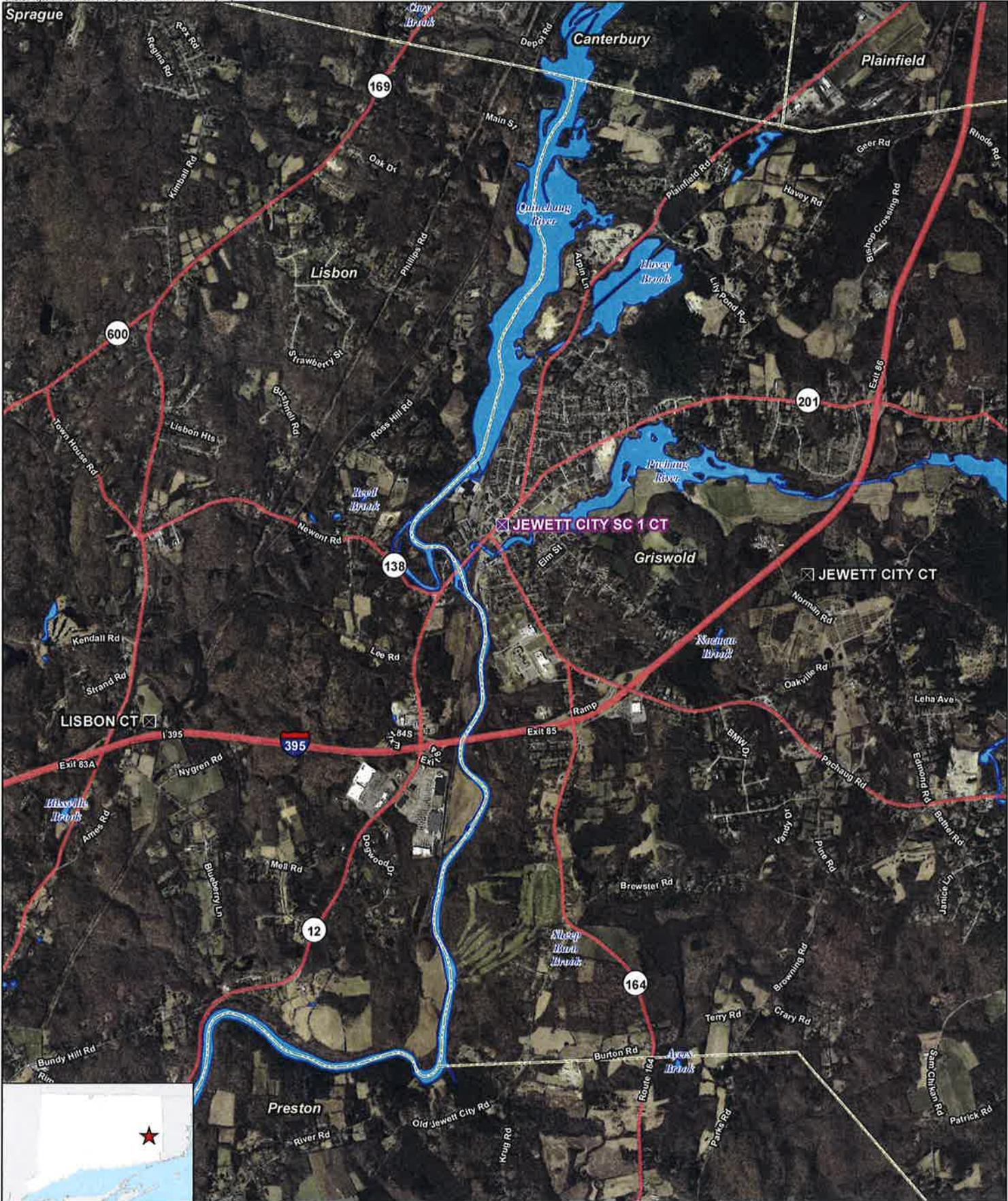
Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By  _____

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



Legend

-  Proposed Verizon Wireless Small Cell Facility
-  Surrounding Verizon Wireless Facilities
-  Municipal Boundary
-  Waterbody

Site Vicinity Map

Proposed Small Cell Installation
 Jewett City SC 1 CT
 37 Main Street
 Jewett City, Connecticut



Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 3,500 feet
 Map Date: June 2015



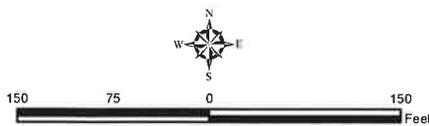
Legend

-  Approximate Subject Property
-  Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)

Site Schematic

Proposed Small Cell Installation
 Jewett City SC 1 CT
 37 Main Street
 Jewett City, Connecticut

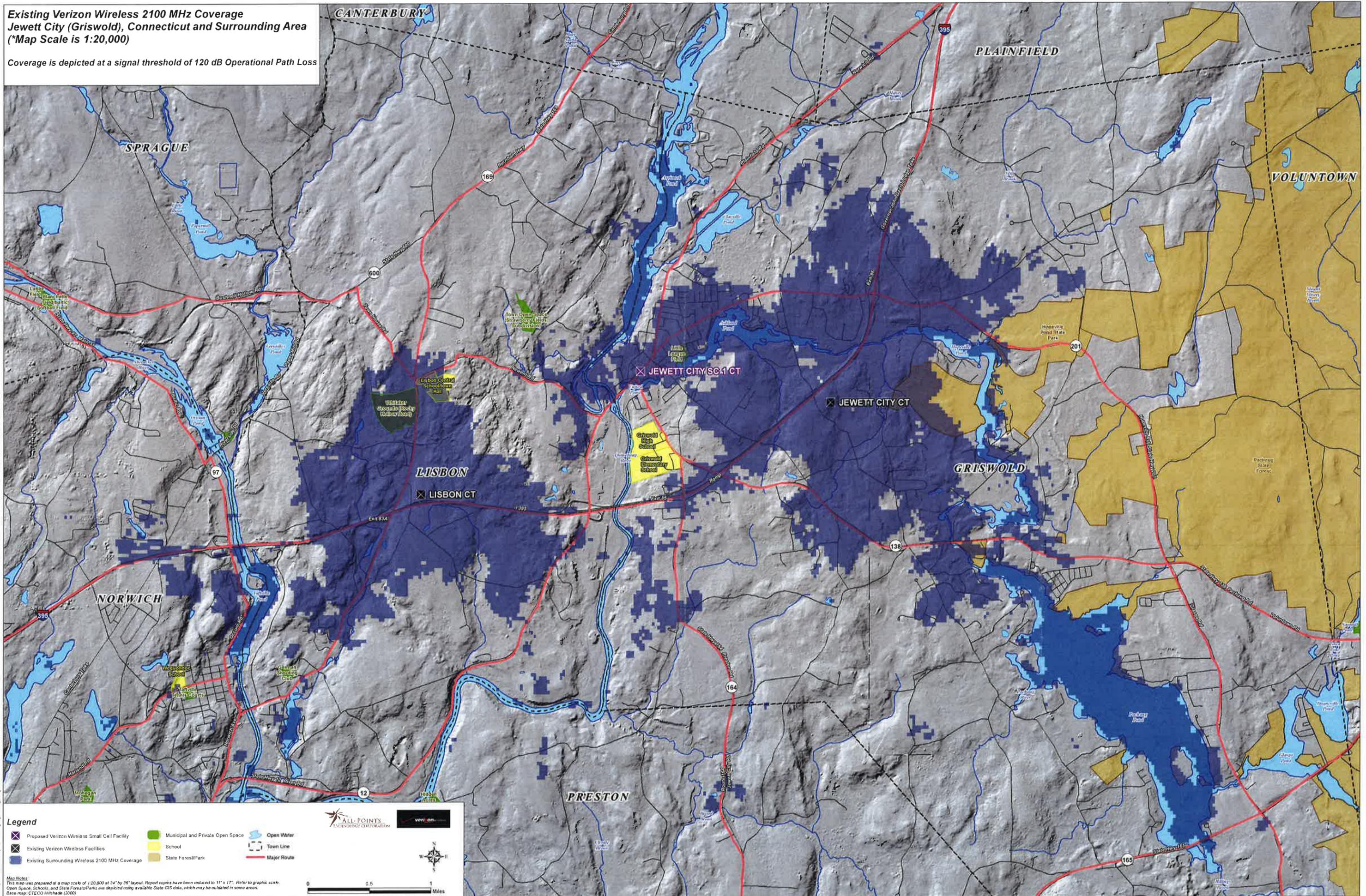
Map Notes:
 Base Map Source: 2012 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 150 feet
 Map Date: June 2015



ATTACHMENT 2

**Existing Verizon Wireless 2100 MHz Coverage
Jewett City (Griswold), Connecticut and Surrounding Area
(*Map Scale is 1:20,000)**

Coverage is depicted at a signal threshold of 120 dB Operational Path Loss

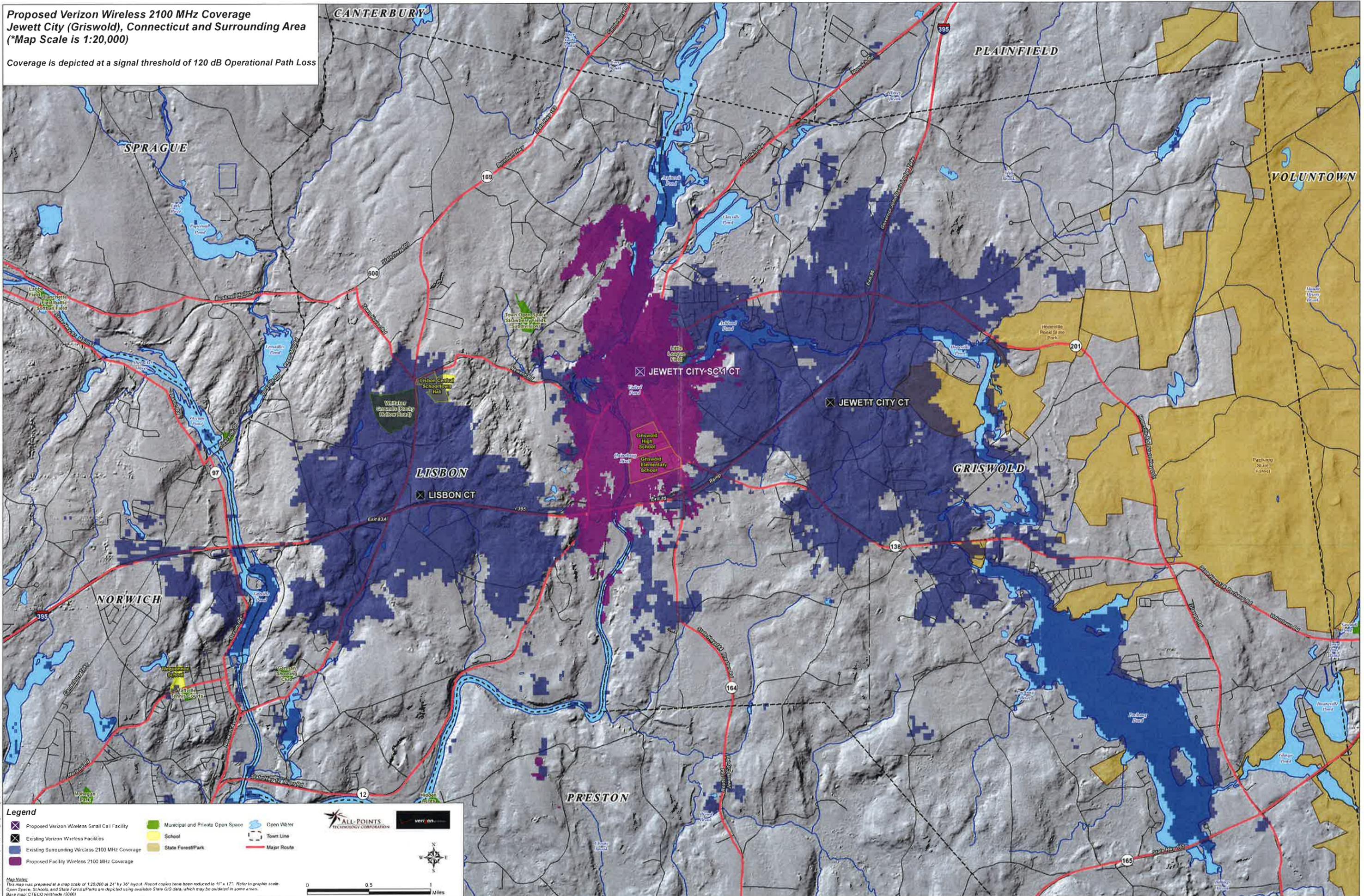


- Legend**
- Proposed Verizon Wireless Small Cell Facility
 - Municipal and Private Open Space
 - Open Water
 - School
 - Town Line
 - Slate Forest/Park
 - Existing Surrounding Wireless 2100 MHz Coverage
 - Major Route

Map Notes:
This map was prepared at a map scale of 1:20,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and Slate Forests/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: CTECO Hillshade (2000)

**Proposed Verizon Wireless 2100 MHz Coverage
Jewett City (Griswold), Connecticut and Surrounding Area
(*Map Scale is 1:20,000)**

Coverage is depicted at a signal threshold of 120 dB Operational Path Loss



Legend

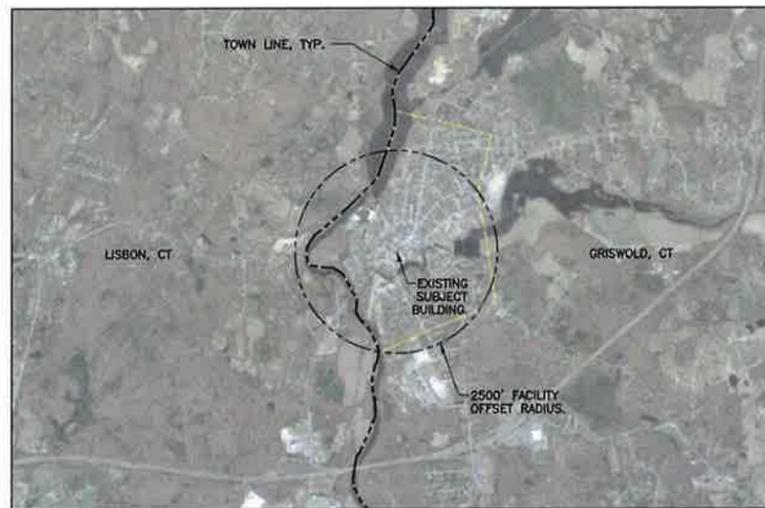
Proposed Verizon Wireless Small Cell Facility	Municipal and Private Open Space	Open Water
Existing Verizon Wireless Facilities	School	Town Line
Existing Surrounding Wireless 2100 MHz Coverage	State Forest/Park	Major Route
Proposed Facility Wireless 2100 MHz Coverage		

Map Notes:
This map was prepared at a map scale of 1:20,000 at 24" by 36" layout. Report copies have been reduced to 11" x 17". Refer to graphic scale.
Open Space, Schools, and State Forest/Parks are depicted using available State GIS data, which may be outdated in some areas.
Base map: CTECO Hillshade (2006)

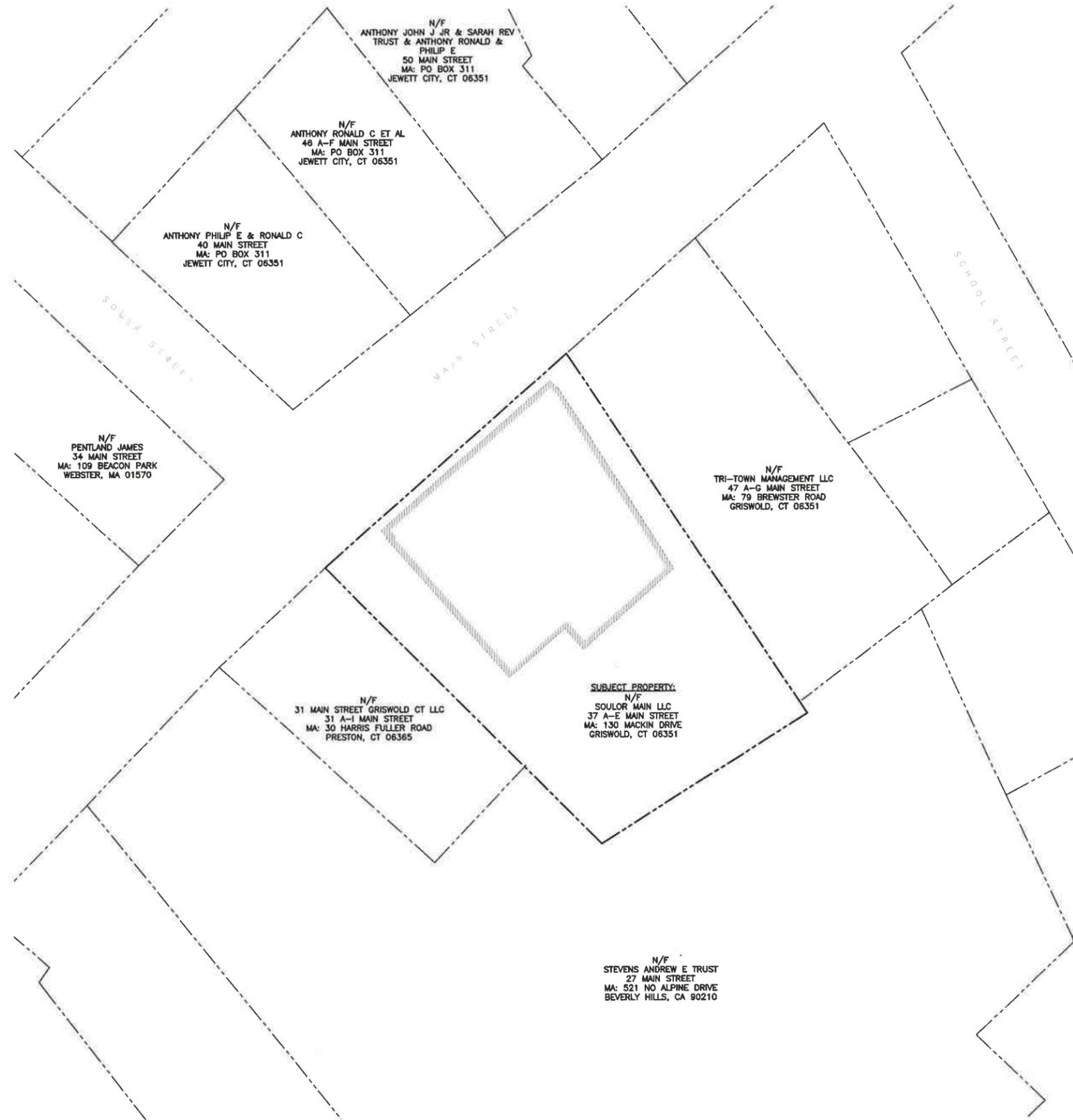
ALL-POINTS TECHNOLOGY CORPORATION

0 0.5 1 Miles

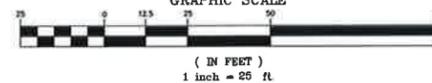
ATTACHMENT 3



MUNICIPALITY NOTIFICATION LIMIT MAP



1 ABUTTERS MAP
C-1 SCALE: 1" = 25'



REV.	DATE	DESCRIPTION
1	05/28/15	ISSUED FOR CSC-CLIENT REVIEW
0	05/27/15	ISSUED FOR CSC-CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

CENTEK engineering
Continued on Solutions
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Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
JEWETT CITY SC 1
37 MAIN STREET
JEWETT, CT 06351

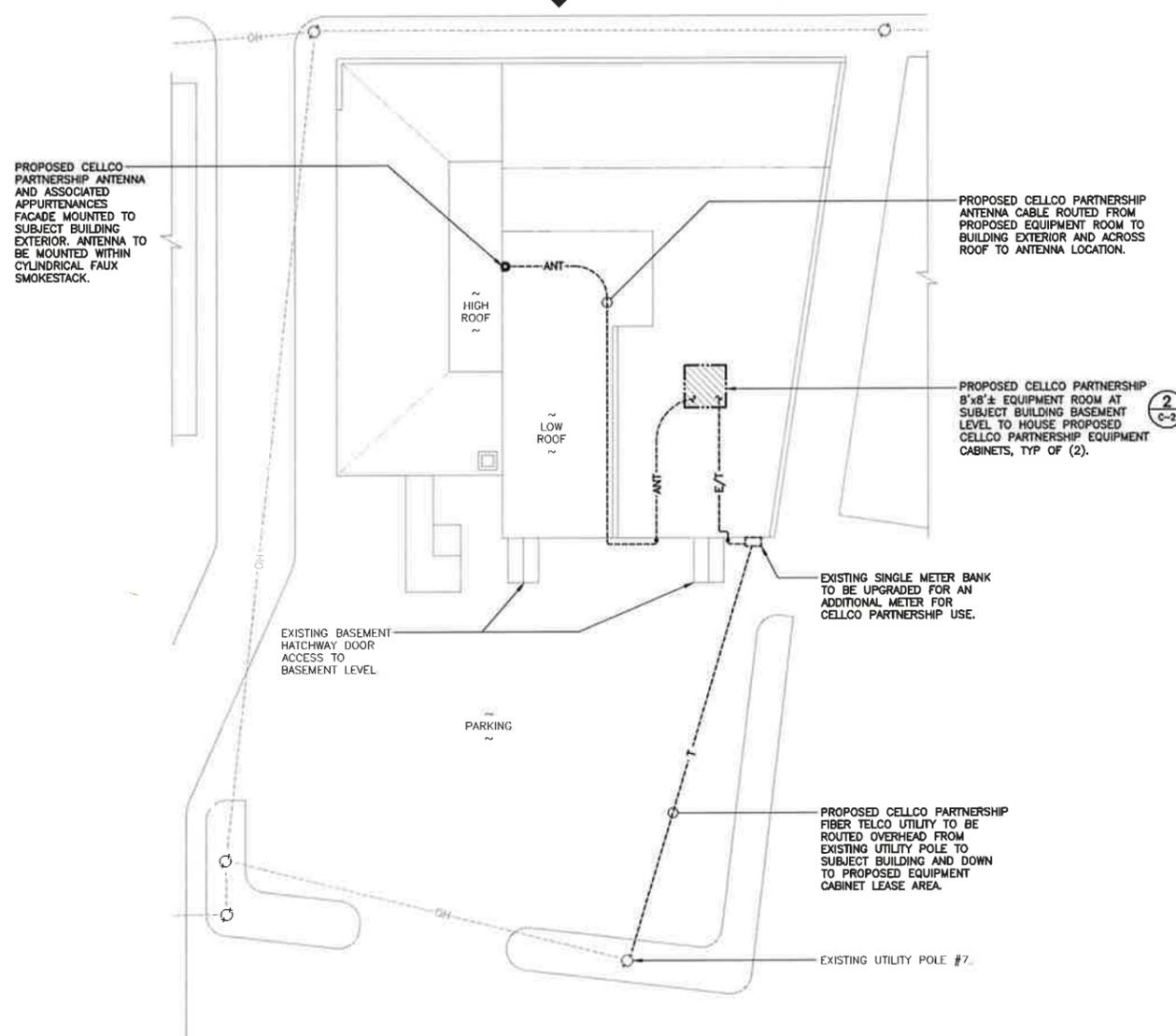
DATE: 05/26/15
SCALE: AS NOTED
JOB NO. 14338.000

ABUTTERS MAP

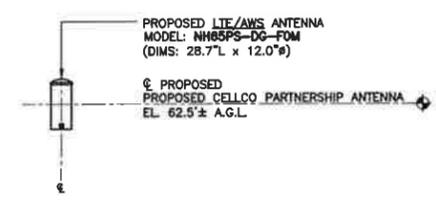
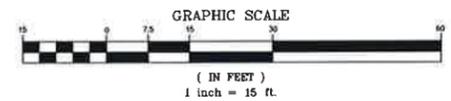
C-1
Sheet No. 2 of 2

← MAIN STREET →

3
C-2



1 SITE/ROOF PLAN
SCALE: 1" = 15'



4 TYP. ANTENNA MOUNTING CONFIGURATION
NOT TO SCALE

REMOTE RADIO HEAD MOUNTING NOTE

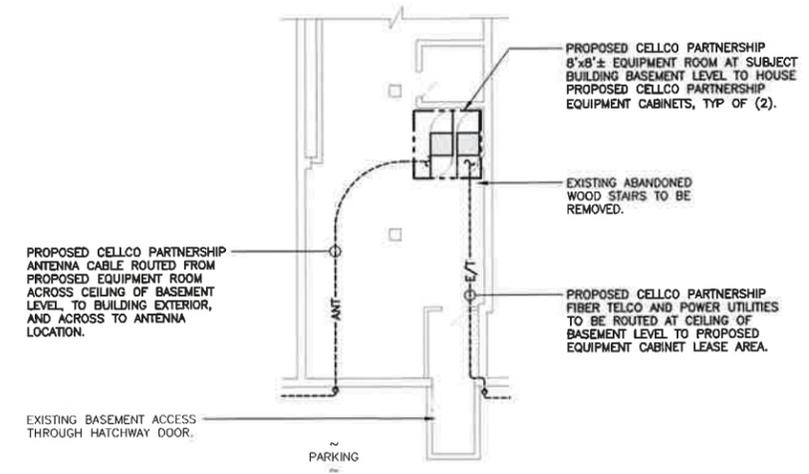
- AWS RRH (MODEL: ALJ RRH2x60-AWS (DIMS: 36.7"L x 10.6"W x 5.8"D) (TYP. OF 1)

ANTENNA AND RRH MOUNTED WITHIN PROPOSED FAUX SMOKESTACK ANTENNA ENCLOSURE. SEE PLAN/ELEVATION FOR LOCATIONS.

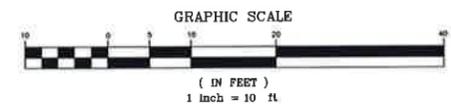
PROPOSED CELCO PARTNERSHIP ANTENNA CABLE ROUTED FROM PROPOSED EQUIPMENT ROOM TO BUILDING EXTERIOR AND ACROSS ROOF TO ANTENNA LOCATION.

PROPOSED CELCO PARTNERSHIP 8'x8'± EQUIPMENT ROOM AT SUBJECT BUILDING BASEMENT LEVEL TO HOUSE PROPOSED CELCO PARTNERSHIP EQUIPMENT CABINETS, TYP OF (2).

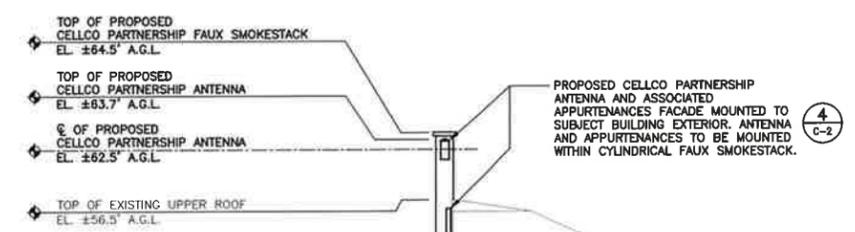
2
C-2



2 PARTIAL BASEMENT PLAN
SCALE: 1" = 10'



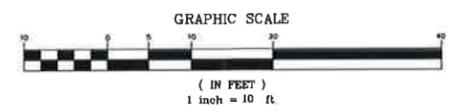
HEIGHTS SHOWN HEREIN ARE REFERENCED FROM FAA 1-A SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED MAY 20, 2015.



TOP OF EXISTING HIGH PARAPET
EL. ±45.8' A.G.L.

TOP OF EXISTING LOWER ROOF
EL. ±15.7' A.G.L.

3 NORTH ELEVATION
SCALE: 1" = 10'



REV.	DATE	DESCRIPTION
1	05/28/15	CIP
0	05/27/15	CIP

PROFESSIONAL ENGINEER SEAL

Cellco Partnership
d.b.a. Verizon Wireless

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Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
JEWETT CITY SC 1
37 MAIN STREET
JEWETT, CT 06351

DATE: 05/26/15
SCALE: AS NOTED
JOB NO. 14338.000

ROOF PLAN
ELEVATION &
ANTENNA CONFIG

C-2
Sheet No. 3 of 3

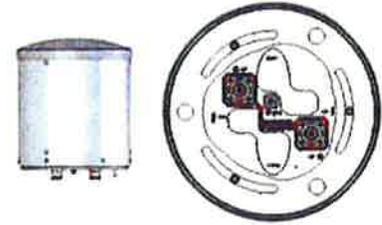
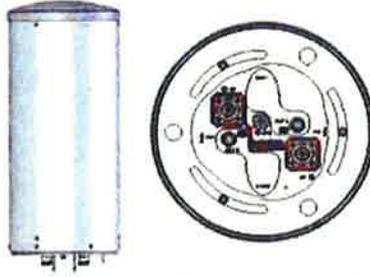
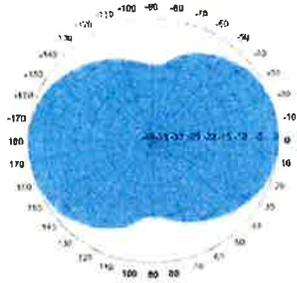
ATTACHMENT 4

Metro Cell Antennas with Internal Diplexer and GPS Antenna

Dualband Bi-Directional (2x65°), Metro Cell Antenna

NH65PS-DG-F0M

NH65PT-DG-F0



ELECTRICAL SPECIFICATIONS

Operating Frequency Range	698 - 896 and 1710 - 2170 MHz					698 - 896 and 1710 - 2170 MHz				
	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Frequency Bands, MHz										
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Gain, dBi	6.5	7.5	10.2	10.4	10.7	9.5	4.5	6.1	6.2	6.5
Beamwidth, Horizontal, degrees	70	70	65	65	65	70	70	65	65	65
Beamwidth, Vertical, degrees	30.0	24.0	16.0	15.0	14.0	60.0	55.0	16.0	15.0	14.0
USLS, dB	12	12	15	15	15	-	-	12	10	10
Beam Tilt, degrees	0	0	0-16	0-16	0-16	0	0	0	0	0
Isolation, dB	25	25	25	25	25	25	25	25	25	25
VSWR (Return Loss, dB)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)
PIM, 3rd Order, 2 x 20 W, dBc	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50	-1.50
Input Power per Port, maximum, watts	250	250	250	250	250	250	250	250	250	250

MECHANICAL SPECIFICATIONS

Connector Interface	7 - 16 DIN Female	7 - 16 DIN Female
Connector Quantity, Location	2, Bottom	2, Bottom
GPS Connector Interface	4.1/9.5 DIN Female	4.1/9.5 DIN Female
GPS Connector Quantity, Location	1, Bottom	1, Bottom
Length, mm (inch)	730 (28.7)	360 (14.2)
Outer Diameter, mm (inch)	305 (12.0)	305 (12.0)
Wind Speed, maximum, km/h (mph)	241.4 (150)	241.4 (150)
Net Weight, kg (lb)	16.0 (35.3)	10.0 (22.0)

AVAILABILITY

Expected Ready Date for Manufacturing	May 2014	June 2014
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ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2x60-AWS FOR BAND 4 APPLICATIONS

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals

along with operations, administration and maintenance (OA&M) information.

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

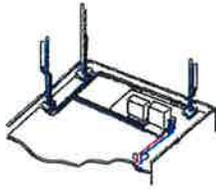
The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

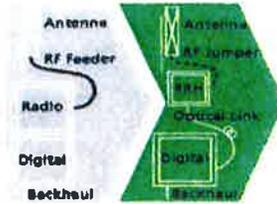
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

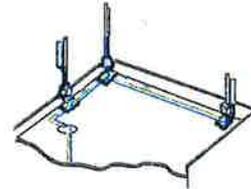
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control

- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and

- silent solutions, with minimum impact on the neighborhood, which ease the deployment
- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz; DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisy chaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

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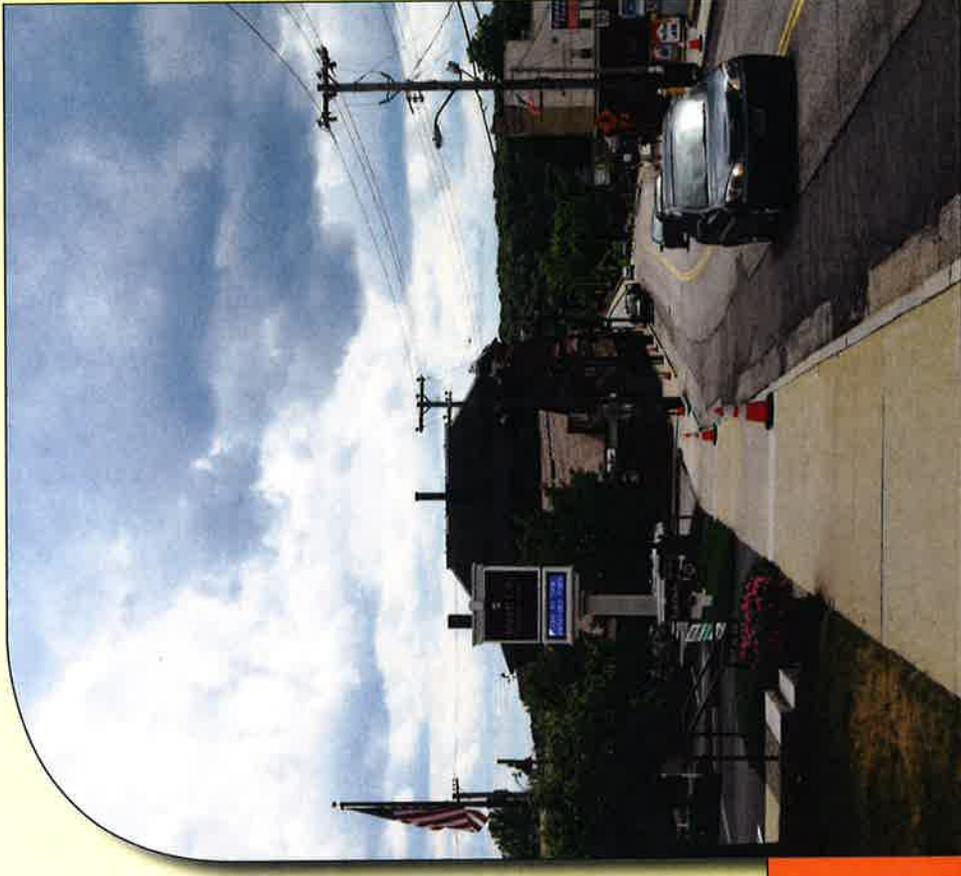
.....**AT THE SPEED OF IDEAS™**



ATTACHMENT 5

Limited Visual Assessments and Photo-Simulations

JEWETT CITY SC1
37 MAIN STREET
JEWETT, CT 06351



Prepared in June 2015 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless



LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a small cell wireless telecommunications Facility at 37 Main Street in Jewett City, Connecticut (the "Property").

Project Setting

The Property is located east of Main Street (aka State Highway 12) in downtown Jewett City and is currently developed with a three-story, multi-tenant masonry and brick building. Street level storefronts are currently occupied by a diner and laundromat; apartments are located on the second and third story. The proposed Facility would include the installation of a single canister antenna and remote radio head (concealed within an RF-transparent smokestack, or exhaust pipe) mounted to the northeast side of a high roof extension on the building's southern exterior which rises approximately 11 feet above the main roofline. The faux smokestack would extend approximately eight feet above the high roof. Associated equipment would be located within the building's basement and electrical and telco cables routed through interior portions, such that no equipment would be visible from exterior locations.

Methodology

On June 6, 2015, APT personnel conducted a field reconnaissance to photo-document existing conditions. Five nearby locations were selected to depict existing and proposed conditions. At each photo location, the geographic coordinates of the camera's position were logged using global positioning system ("GPS") technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens, with lens set to 50 mm.

"The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm."¹

Three-dimensional computer models were developed for the building and proposed small cell components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area. For

¹ Warren, Bruce. Photography, West Publishing Company, Eagan, MN, c. 1993, (page 70).

presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format². A photolog map and copies of the existing conditions and photo-simulations are attached.

Conclusions

The visibility of the proposed installation would be limited primarily to locations within two blocks (approximately 500 feet) of the Property where the building's high roof can be seen today. A brick chimney is currently located on the east side of the high roof, as are a satellite dish and other utilities. The building is located along Main Street among other similar-style and tightly spaced structures; views of the high roof are not readily attainable at close distance from Main Street. The combination of the small cell's concealment within a cylindrical faux smokestack, the dense development of the immediate area, and intervening utilities from viewing locations results in the Facility appearing to be part of the building's heating exhaust system. Based on the results of this assessment, it is our opinion that the proposed installation of Verizon Wireless equipment at the Property would have little effect on existing views.

² When viewing in this format size, we believe it is important to provide the largest representational image while maintaining an accurate relation of sizes between objects within the frame of the photograph and depicting the subject in a way similar to what an observer might see, to the greatest extent possible.

ATTACHMENTS

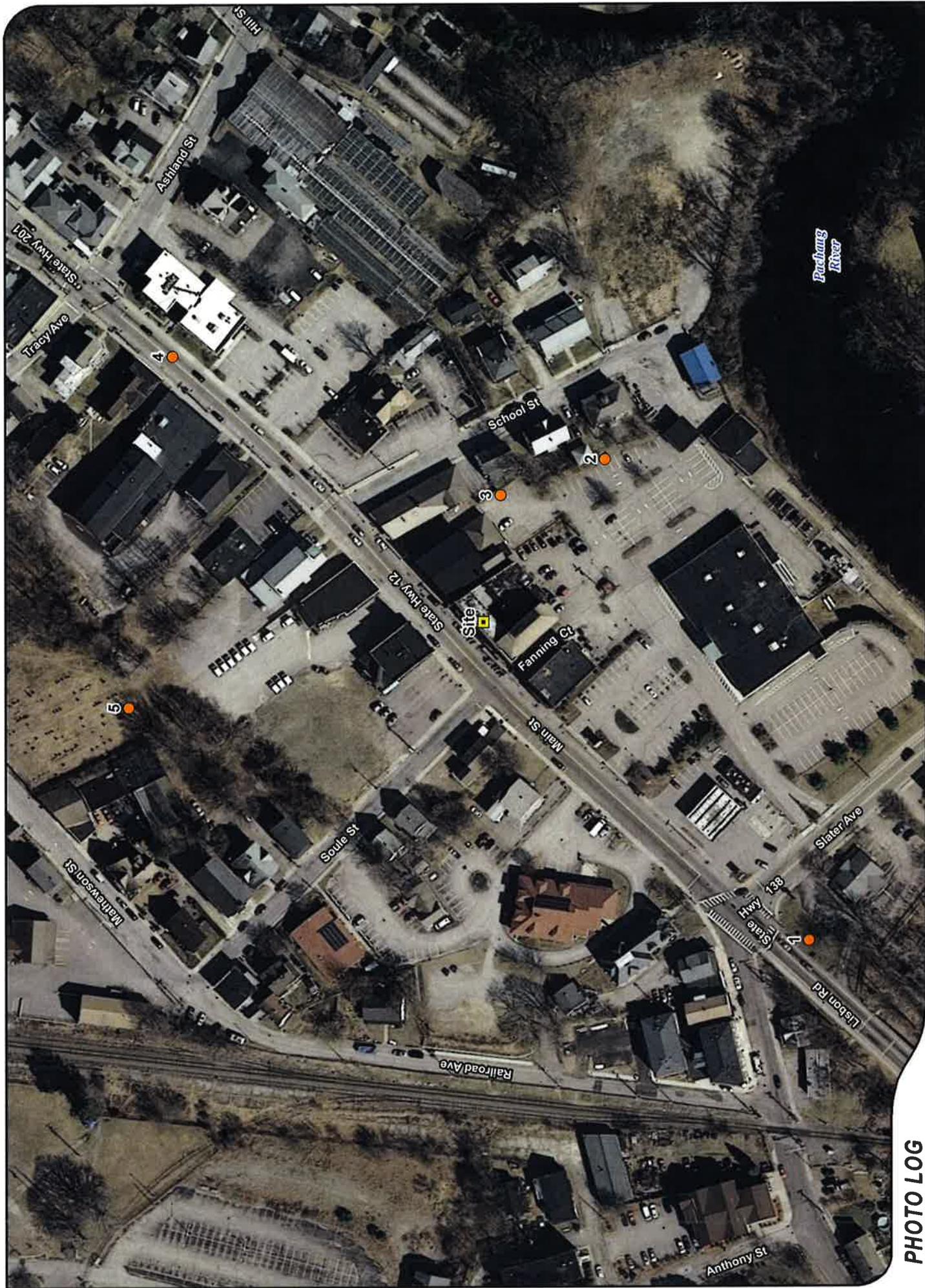


PHOTO LOG

- Legend
- Site
 - Photo Location





EXISTING

PHOTO

1

LOCATION
RIVER ROAD

ORIENTATION
NORTHEAST

DISTANCE TO SITE
+/- 555 FEET





PROPOSED

PHOTO

1

LOCATION

RIVER ROAD

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 555 FEET





EXISTING

PHOTO

2

LOCATION

HOST PROPERTY

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 250 FEET





PROPOSED

PHOTO

2

LOCATION

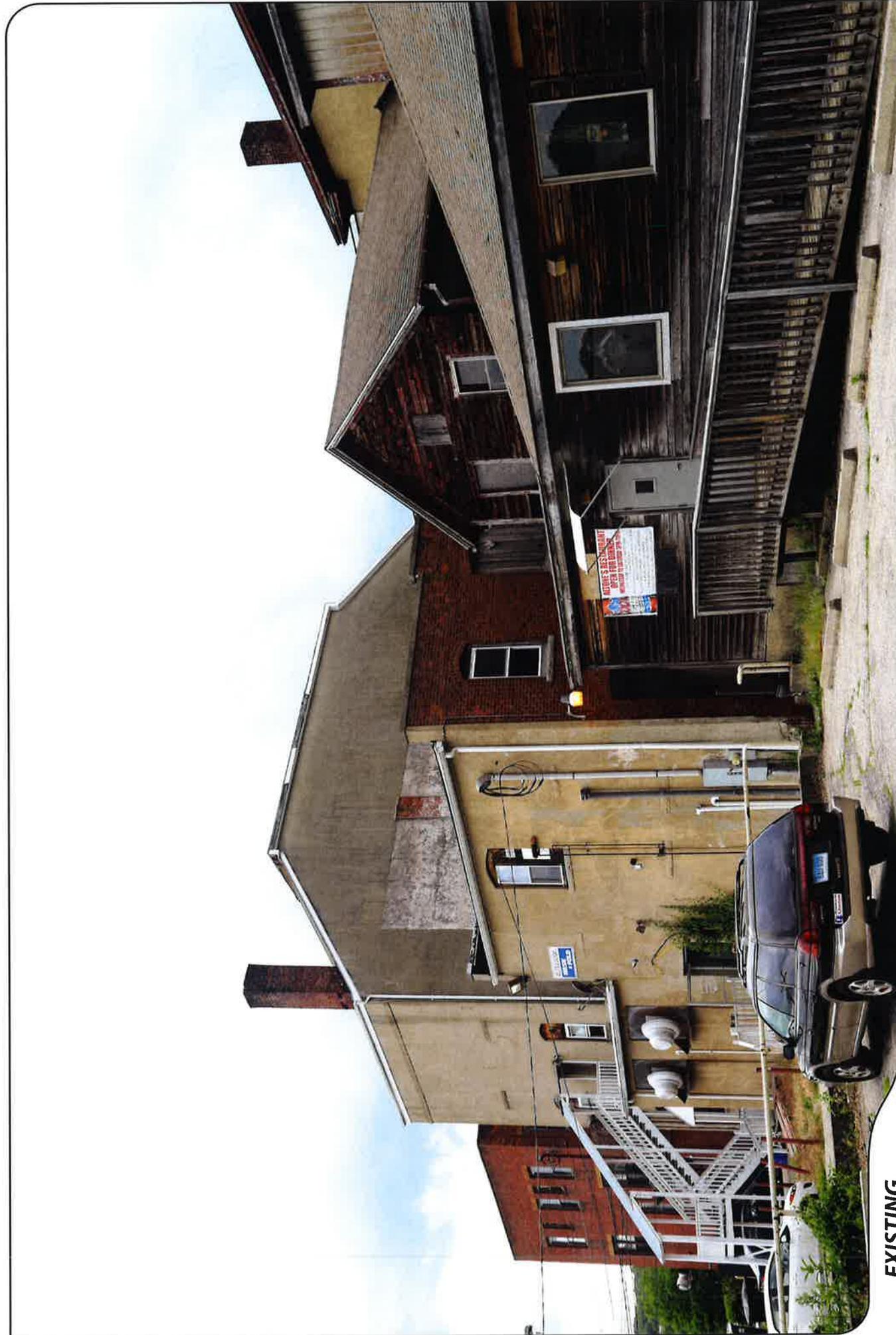
HOST PROPERTY

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 250 FEET



EXISTING

PHOTO

3

LOCATION

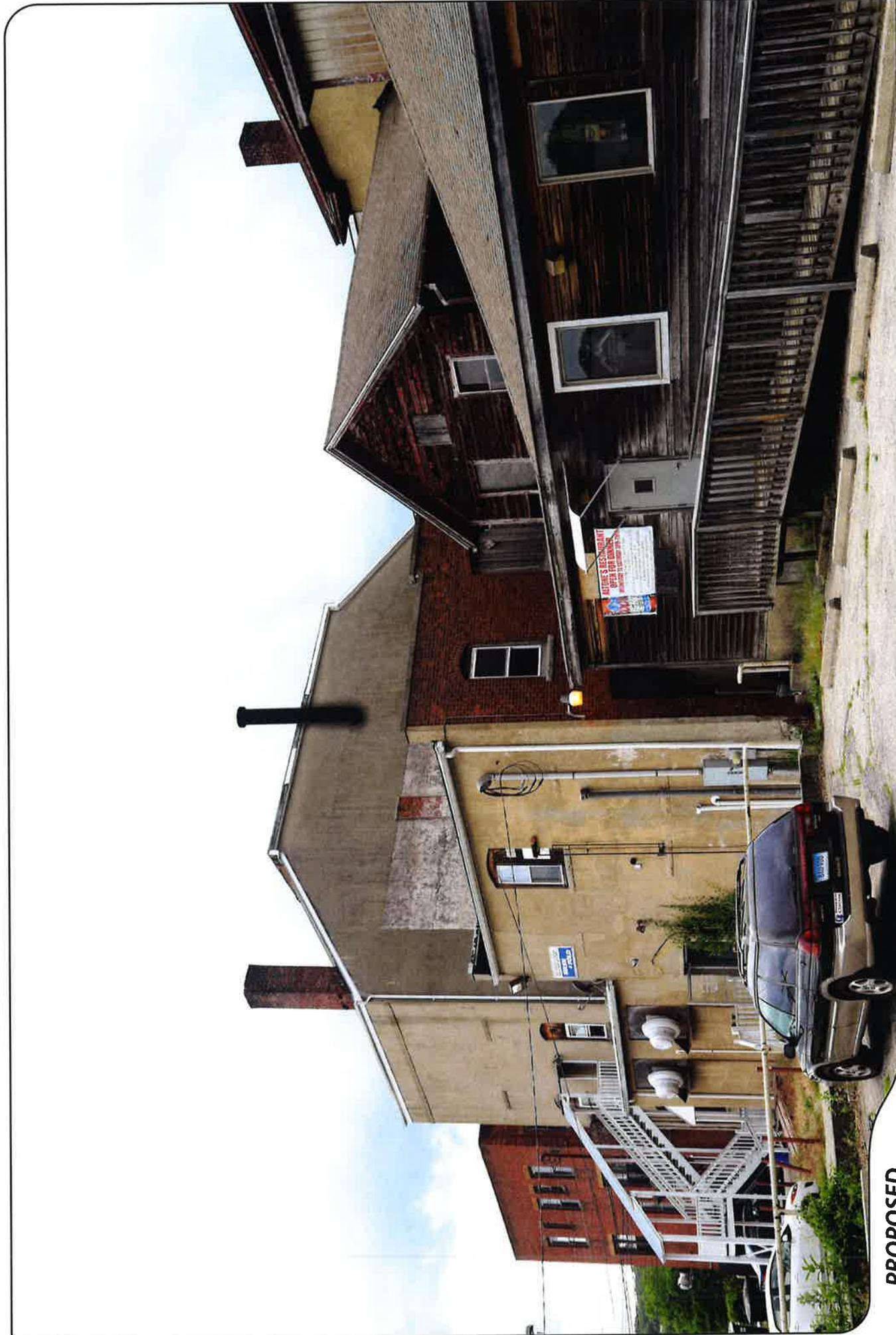
HOST PROPERTY

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 156 FEET



PROPOSED

PHOTO

3

LOCATION

HOST PROPERTY

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 156 FEET



EXISTING

PHOTO

4

LOCATION
RIVER ROAD

ORIENTATION
SOUTHWEST

DISTANCE TO SITE
+/- 499 FEET



PROPOSED

PHOTO

4

LOCATION
RIVER ROAD

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 499 FEET



EXISTING

PHOTO

5

LOCATION

FIRST CONGREGATIONAL CHURCH CEMETERY

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 449 FEET



PROPOSED

PHOTO
5

LOCATION
FIRST CONGREGATIONAL CHURCH CEMETERY

ORIENTATION
SOUTHEAST

DISTANCE TO SITE
+/- 449 FEET



ATTACHMENT 6

General Power Density

Site Name: Jewett City SC 1, 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	0	470	0	62.5	0.0000	1.0	0.00%
VZW Cellular	869	0	422	0	62.5	0.0000	0.5793333333	0.00%
VZW AWS	2145	1	399	399	62.5	0.0367	1.0	3.67%
VZW 700	746	0	1050	0	62.5	0.0000	0.4973333333	0.00%

Total Percentage of Maximum Permissible Exposure

3.67%

*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.

ATTACHMENT 7

JEWETT_CITY_SC_1_CT.txt

* Federal Airways & Airspace *
* Summary Report: New Construction *
* Non-Antenna Structure *

Airspace User: Your Name

File: JEWETT_CITY_SC_1_CT

Location: Jewett City, CT

Latitude: 41°-36'-19.36" Longitude: 71°-58'-57.96"

SITE ELEVATION AMSL.....124 ft.

STRUCTURE HEIGHT.....65 ft.

OVERALL HEIGHT AMSL.....189 ft.

NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)
FAR 77.9(b): NNR (DNE Notice Slope)
FAR 77.9(c): NNR (Not a Traverse Way)
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for IJD
FAR 77.9: NNR (No Expected TERPS® impact LZD)
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required

NNR = Notice Not Required

PNR = Possible Notice Required (depends upon actual IFR procedure)
For new construction review Air Navigation Facilities at bottom
of this report.

Notice to the FAA is not required at the analyzed location and height for
slope, height or Straight-In procedures. Please review the 'Air Navigation'
section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL
FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: IJD: WINDHAM

Type: A RD: 72564.59 RE: 239.7
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Greater Than 5.99 NM.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: LZD: DANIELSON

Type: A RD: 80934.72 RE: 233.8
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): Does Not Apply.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
 FAR 77.17(a)(3) Departure Surface Criteria (40:1)
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
 FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
 The Maximum Height Permitted is 900 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT TYP NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
24CT AIR BEE FIELD No Impact to Private Landing Facility. DNE 200 ft AGL within 3 NM of Airport.	162.83	2.41	-91	
CT43 AIR SPRUCE No Impact to Private Landing Facility. DNE 200 ft AGL within 3 NM of Airport.	106.9	2.43	-11	

AIR NAVIGATION ELECTRONIC FACILITIES

APCH BEAR	FAC IDNT	ST TYPE	AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE
	ORW	VOR/DME	I	110.0	194.24	18417	-121	CT	NORWICH	-.38
	GON	VOR/DME	R	110.8	190.7	101978	+180	CT	GROTON	.10
	PVD	RADAR	Y	2735.	68.05	113141	-387	RI	THEODORE FRANCIS	-.2
No Impact. This structure does not require Notice based upon EMI. The studied location is within 20 NM of a Radar facility. The calculated Radar Line-Of-Sight (LOS) distance is: 46 NM. This location and height is within the Radar Line-Of-Sight.										
	PUT	VOR/DME	R	117.4	16.47	133052	-463	CT	PUTNAM	-.2
	HFD	VOR/DME	R	114.9	275.00	154936	-660	CT	HARTFORD	-.24
	PVD	VORTAC	R	115.6	73.81	157241	+140	RI	PROVIDENCE	.05
	SEY	VOR/DME	R	117.8	145.17	194731	+89	RI	SANDY POINT	.03
	BDL	RADAR	ON		302.69	226214	-47	CT	BRADLEY INTL	-.01

CFR Title 47, §1.30000-§1.30004

AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
 Movement Method Proof as specified in §73.151(c) is not required.
 Please review 'AM Station Report' for details.

Nearest AM Station: WICH @ 9696 meters.

Airspace® Summary Version 15.5.391

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06-05-2015
08:28:26

ATTACHMENT 8

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

June 18, 2015

Via Certificate of Mailing

Kevin A. Skulczyck, First Selectman
Town Hall
28 Main Street
P.O. Box 369
Griswold, CT 06351

Re: **Proposed Installation of a Small Cell Telecommunications Facility at 37 Main Street, Jewett City, Connecticut**

Dear Mr. Skulczyck:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new small cell wireless telecommunications facility at 37 Main Street in Jewett City (the “Property”). The facility will consist of a small unipole-type tower attached to the building. The tower is designed to appear as a chimney stack and will conceal a single canister-type antenna and a Remote Radio Head (“RRH”). The unipole tower would extend approximately 8 feet above the upper roof. Equipment associated with the small cell facility will be located inside the building. A copy of the Petition is attached for your review. Owners of land abutting the Property were also sent a copy of this Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

13874062-v1

June 18, 2015

Via Certificate of Mailing

Thomas W. Sparkman, First Selectman
Town Office Building
1 Newent Road
Lisbon, CT 06351-9802

Re: **Proposed Installation of a Small Cell Telecommunications Facility at 37 Main Street, Jewett City, Connecticut**

Dear Mr. Sparkman:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new small cell wireless telecommunications facility at 37 Main Street in Jewett City (the “Property”). The facility will consist of a small unipole-type tower attached to the building. The tower is designed to appear as a chimney stack and will conceal a single canister-type antenna and a Remote Radio Head (“RRH”). The unipole tower would extend approximately 8 feet above the upper roof. Equipment associated with the small cell facility will be located inside the building. A copy of the Petition is attached for your review. Owners of land abutting the Property were also sent a copy of this Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

13874069-v1

June 18, 2015

Via Certificate of Mailing

Soulor Main LLC
c/o Andy Soulor
130 Mackin Drive
Griswold, CT 06351

Re: Proposed Installation of a Small Cell Telecommunications Facility at 37 Main Street, Jewett City, Connecticut

Dear Mr. Soulor:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new small cell wireless telecommunications facility at 37 Main Street in Jewett City (the “Property”). The facility will consist of a small unipole-type tower attached to the building. The tower is designed to appear as a chimney stack and will conceal a single canister-type antenna and a Remote Radio Head (“RRH”). The unipole tower would extend approximately 8 feet above the upper roof. Equipment associated with the small cell facility will be located inside the building. A copy of the Petition is attached for your review. Owners of land abutting the Property were also sent a copy of this Petition.

Please contact me if you have any questions regarding this proposal.

Sincerely,



Kenneth C. Baldwin

Attachment

13874082-v1

ATTACHMENT 9

KENNETH C. BALDWIN

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

Also admitted in Massachusetts

June 18, 2015

Via Certificate of Mailing

«Name_and_Address»

Re: Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Telecommunications Facility at 37 Main Street, Jewett City, Connecticut

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to install a new small cell wireless telecommunications facility at 37 Main Street in Jewett City (the “Property”). The facility will consist of a small unipole-type tower attached to the building. The tower is designed to appear as a chimney stack and will conceal a single canister-type antenna and a Remote Radio Head (“RRH”). Equipment associated with the small cell facility will be located inside the building. A copy of the full Petition is attached for your review.

This notice is being sent to you because you are listed as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council’s process for reviewing the Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

June 18, 2015
Page 2

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Attachment
Copy to:
Tim Parks

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

**ABUTTERS LIST
MAP 26/BLOCK 2/LOT 7**

**37 A-E MAIN STREET
JEWETT CITY (GRISWOLD), CONNECTICUT**

	<u>Map/Block/Lot</u>	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	26/2/8	31 A-I Main Street	31 Main Street Griswold CT LLC 30 Harris Fuller Road Preston, CT 06365
2.	26/3/1	34 Main Street	James Pentland 109 Beacon Park Webster, MA 01570
3.	26/7/15	40 Main Street	Philip E. and Ronald C. Anthony P.O. Box 311 Jewett City, CT 06351
4.	26/7/16	46 A-F Main Street	Ronald C. Anthony, Et Al. P.O. Box 311 Jewett City, CT 06351
5.	26/7/17	50 Main Street	Philip and Ronald Anthony and Sarah and John J. Anthony, Jr., Rev. Trust P.O. Box 311 Jewett City, CT 06351
6.	26/2/6	47 A-G Main Street	Tri Town Management LLC 79 Brewster Road Griswold, CT 06351
7.	26/2/9	27 Main Street	Andrew E. Stevens Trust 521 No. Alpine Drive Beverly Hills, CA 90210