

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
: :
A PETITION OF CELLCO PARTNERSHIP : SUB-PETITION NO. 1133
D/B/A VERIZON WIRELESS FOR A : 122 WATERMAN ROAD
DECLARATORY RULING FOR : LEBANON, CT
APPROVAL OF AN ELIGIBLE FACILITY :
REQUEST FOR MODIFICATIONS TO AN :
EXISTING TELECOMMUNICATIONS :
FACILITY AT 122 WATERMAN ROAD, :
LEBANON, CONNECTICUT : FEBRUARY 28, 2018

SUB-PETITION FOR DECLARATORY RULING:
ELIGIBLE FACILITIES REQUEST FOR MODIFICATIONS
THAT WILL NOT SUBSTANTIALLY CHANGE THE
PHYSICAL DIMENSIONS OF AN EXISTING TOWER

I. Introduction

Pursuant to Section 6409(a) of the Middle Class Tax Relief and Job Creation Act of 2012, codified at 47 U.S.C. § 1455(a) (“Section 6409(a)”) and the October 21, 2014 Report and Order (FCC-14-533) issued by the Federal Communications Commission (“FCC”) (the “FCC Order”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Sub-Petition”) that the proposed modifications to Cellco’s existing wireless telecommunications facility at the Prides Corner Farm, 122 Waterman Road in Lebanon, Connecticut (the “Property”) constitutes an Eligible Facilities Request (“EFR”) under the FCC Order. Cellco has designated this site as its “Lebanon Prides Corner Farm Facility”.

II. Factual Background

Prides Corner Farm, a family-owned commercial nursery business, has been operating in Lebanon, Connecticut for the last 30 years. The 350-acre facility is one of the largest commercial

nursery operations in Connecticut and provides nursery products, materials and landscaping services to customers in Connecticut, Rhode Island and Massachusetts. See Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). On February 11, 2010, the Council approved Cellco’s Petition No. 930, permitting the installation of a 40-foot wood pole (32.8 feet above ground level (“AGL”)), supporting two 30-inch yagi antennas at the Prides Corner Farm. The repeater antennas extend to a height of 35.3 feet AGL and were designed to provide enhanced wireless services to a significant portion of the 350-acre parcel and repeat the wireless signal from Cellco’s existing Franklin North cell site. Recent cell site traffic data now suggests that the Franklin North facility is currently operating at or near its capacity limits. In an effort to provide capacity relief to the Franklin North cell site and maintain high quality, reliable wireless service to Prides Corner Farm, Cellco proposes to install a new small cell wireless facility at the Property.

III. Proposed Lebanon Prides Corner Farm Facility

As the Council is aware, Cellco is licensed to provide wireless telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges in Lebanon and throughout the State of Connecticut. Cellco initially intends to deploy wireless service only in its 700 MHz frequency at Prides Corner Farm.

Cellco intends to remove its existing yagi antennas and install a new canister antenna at the top of the existing wood pole. The antenna will extend to an overall height of 37.8 feet AGL. Cellco’s remote radio head (“RRH”) and electrical service equipment will be attached to the lower portion of the wood pole. Power and telephone service will extend from the existing service on the Property. Project Plans for the Lebanon Prides Corner Farm Facility are included in Attachment 2. Specifications for Cellco’s antenna and RRH are included in Attachment 3. A

Structural Evaluation Letter, confirming that the existing wood pole can support Cellco's proposed small cell installation is included in Attachment 4.

IV. Discussion

A. The Proposed Modification Will Not Cause a Substantial Change to the Physical Dimensions of the Existing Tower or Base Station

Section 6409(a) provides, in relevant part, that "a State or local government may not deny, and shall approve, any eligible facilities request for a modification of an existing wireless tower or base station that does not substantially change the physical dimensions of such tower or base station." Pursuant to the FCC Order, the proposed modification does not substantially change the physical dimensions of the tower or base station if the following criteria are satisfied.

1. *The proposed modified facility will not increase the height of the base station by more than ten (10) percent or by the height of one additional antenna array with separation from the nearest existing antenna not to exceed twenty (20) feet, whichever is greater.*

Cellco proposes to install a single canister antenna, extending only five (5) feet above the top of the existing wood pole to a height of 37.8 feet AGL, only 2.5 feet higher than the existing yagi antenna. The pole height will remain the same.

2. *The proposed facility modification will not protrude from the edge of the tower more than twenty (20) feet or more than the width of the tower structure at the level of the appurtenances, whichever is greater.* Cellco's proposed canister antenna will be attached at the top of the wood pole.

3. *The proposed facility does not involve installation of more than the standard number of new equipment cabinets for the technology involved, but not to exceed four cabinets.* Cellco intends to attach a single RRH and associated electrical equipment to the wood pole.

4. *The proposed facility does not entail any excavation or deployment outside the current site of the base station.* All of Cellco's site improvements will occur within the limits of the 350-acre Prides Corner Farm parcel. None of the small cell components will be installed on the ground.

5. *The proposed facility does not defeat the existing concealment elements of the base station.* None of the existing yagi antennas are concealed in any fashion. Similarly, Cellco's small cell antenna will not be concealed.

6. *The proposed facility complies with conditions associated with the prior approval of construction or modification of the base station.* Cellco's proposed small cell facility modifications remain consistent with the Council's approval in Petition No. 930.

B. FCC Compliance

Radio frequency ("RF") emissions from the proposed Lebanon Prides Corner Farm Facility will be far below the standards adopted by the FCC. Included in Attachment 5 is a worst-case RF emissions calculation for Cellco's proposed 700 MHz small cell facility.

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

On February 28, 2018, a copy of this Sub-Petition was sent to the Lebanon's First Selectman Betsie Petrie, Lebanon's Town Planner Phillip Chester and the owner of the Property. *See Attachment 6.*

A copy of this Sub-Petition was also sent to each owner of land that abuts the Property. A sample abutter's cover letter and the list of those abutting landowners who were sent a copy of the Sub-Petition is included in Attachment 7.

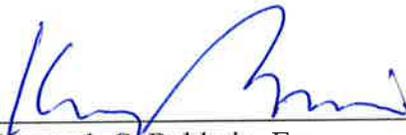
V. Conclusion

Based on the information provided above, Cellco respectfully submits that the proposed

modification of the existing base station at the Property constitutes an “eligible facilities request” under Section 6409(a) and the FCC Order.

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

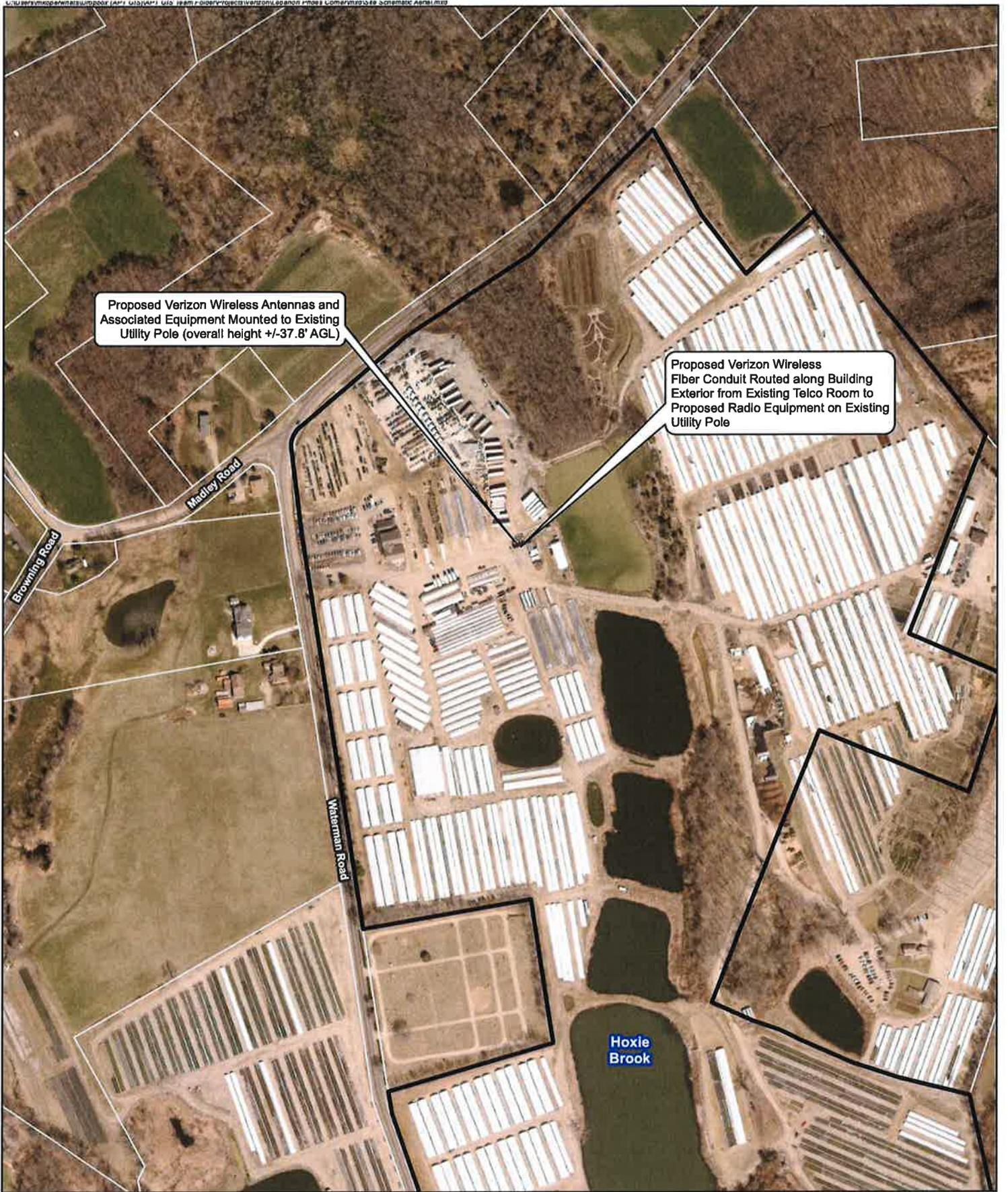


- Legend**
- X Proposed Verizon Wireless Small Cell Facility
 - X Surrounding Verizon Wireless Facilities
 - Municipal Boundary

Site Vicinity Map

Proposed Small Cell Installation
 Lebanon Prides Corner SC CT
 122 Waterman Road
 Lebanon, Connecticut





Proposed Verizon Wireless Antennas and Associated Equipment Mounted to Existing Utility Pole (overall height +/-37.8' AGL)

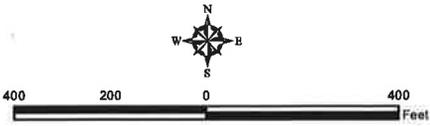
Proposed Verizon Wireless Fiber Conduit Routed along Building Exterior from Existing Telco Room to Proposed Radio Equipment on Existing Utility Pole

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

Site Schematic

Proposed Small Cell Installation
 Lebanon Prides Corner SC CT
 122 Waterman Road
 Lebanon, Connecticut

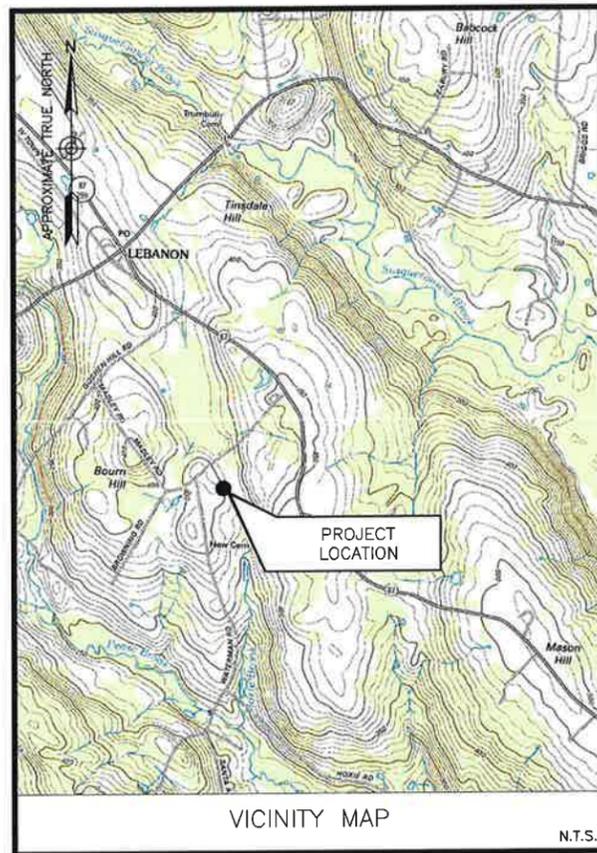
Map Notes:
 Base Map Source: 2016 Aerial Photograph (CTECO)
 Map Scale: 1 inch = 400 feet
 Map Date: February 2018



ATTACHMENT 2

CELLCO PARTNERSHIP d/b/a **Verizon** WIRELESS

PROPOSED WIRELESS FACILITY SITE NAME: LEBANON CT PRIDES CORNER FARM 122 WATERMAN ROAD LEBANON, CT 06249



DIRECTIONS FROM 20 ALEXANDER DRIVE, WALLINGFORD, CT:
HEAD NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD S. TURN RIGHT ONTO BARNES INDUSTRIAL RD S. TURN RIGHT ONTO CT-68 E. SHARP LEFT TO MERGE ONTO I-91 N TOWARD HARTFORD. MERGE ONTO I-91 N. TAKE EXIT 25-26 TO MERGE ONTO CT-3 N TOWARD GLASTONBURY. TAKE THE EXIT ONTO CT-2 E TOWARD NORWICH. KEEP LEFT AT THE FORK TO CONTINUE ON CT-2 E/HWY 2 E. TAKE EXIT 22 TOWARD LEBANON/GILMAN. TURN LEFT ONTO SCOTT HILL RD. CONTINUE ONTO WATERMAN RD. SITE WILL BE ON THE RIGHT.

SITE COORDINATES:
LATITUDE: 41°-37'-15.031" N
LONGITUDE: 72°-12'-13.425" W
(PER FAA 2-C SURVEY)

ELEVATION DATA
GRADE ELEVATION AT UTILITY POLE = 399.3± A.M.S.L.
(PER FAA 2-C SURVEY)

ELEVATION (TO TOP OF ANTENNA)
ELEVATION = 37.8± A.G.L., 437.1± A.M.S.L.

PROJECT INFORMATION

- THE SCOPE OF WORK SHALL INCLUDE:
1. THE INSTALLATION OF PROPOSED CELLCO PARTNERSHIP EQUIPMENT LOCATED ON AN EXISTING UTILITY POLE.
 2. A TOTAL OF ONE (1) PROPOSED CELLCO PARTNERSHIP ANTENNA AND ASSOCIATED APPURTENANCES ARE TO BE MOUNTED TO THE EXISTING UTILITY POLE AT AN ELEVATION OF 37.8± A.G.L.
 3. PROPOSED FIBER EQUIPMENT WILL BE INSTALLED WITHIN THE EXISTING BUILDING. A PROPOSED CONDUIT WILL BE ROUTED FROM THE PROPOSED DEMARC TO THE PROPOSED EQUIPMENT LOCATION.
 4. EXISTING ELECTRICAL PANEL WITHIN BUILDING WILL BE UTILIZED BY CELLCO PARTNERSHIP. A PROPOSED CONDUIT WILL BE ROUTED FROM THE EXISTING DEMARC TO THE PROPOSED EQUIPMENT LOCATION.
 5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
- SCOPE OF WORK

SITE NAME:
LEBANON CT PRIDES CORNER FARM

SITE ADDRESS:
122 WATERMAN ROAD
LEBANON, CT 06249
NEW LONDON COUNTY

PROPERTY OWNER:
PRIDES CORNER FARMS INC.
122 WATERMAN ROAD
LEBANON, CT 06249

APPLICANT:
CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

SITE ACQUISITION CONTACT:
TOM NOLAN
STRUCTURE CONSULTING GROUP
(860) 508-7465

LEGAL/REGULATORY CONTACT:
KENNETH C. BALDWIN, ESQ.
ROBINSON & COLE
(860) 275-8345

PROJECT INFORMATION

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS MAP
C-2	PARTIAL SITE PLAN
C-3	ANTENNA MOUNTING CONFIGURATION & NORTH ELEVATION
SHEET INDEX	

CELLCO PARTNERSHIP
d/b/a **Verizon** WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEBANON CT
PRIDES CORNER
FARM

CSC DRAWINGS

O	02/23/18	FOR SUBMITTAL
A	02/07/18	FOR COMMENT

Dewberry
Dewberry Engineers Inc.
600 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222

DRAWN BY: JC
REVIEWED BY: BSH
CHECKED BY: GHN
PROJECT NUMBER: 50067815
JOB NUMBER: 50094404

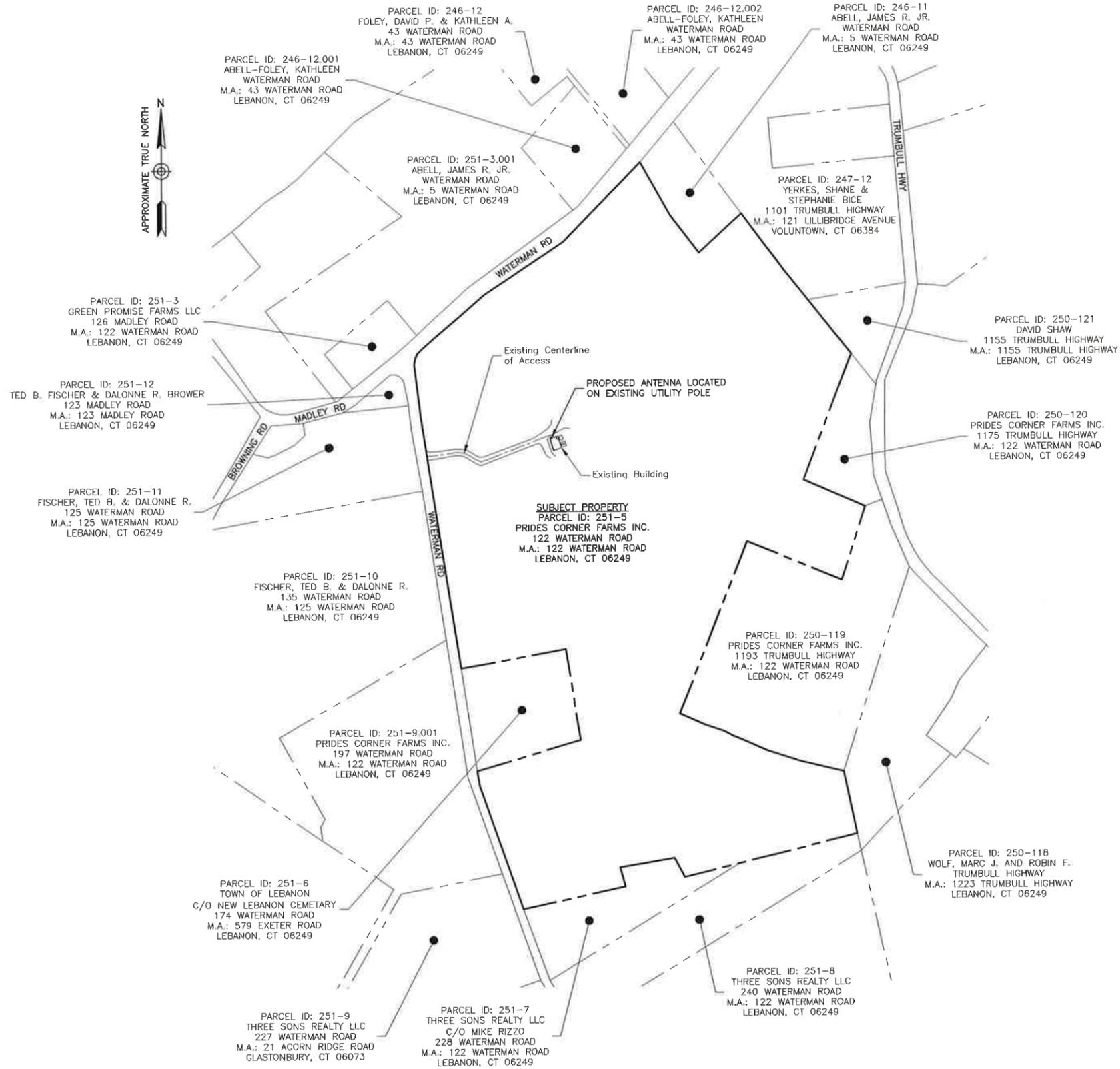
SITE ADDRESS
122 WATERMAN ROAD
LEBANON, CT 06249
NEW LONDON COUNTY
SHEET TITLE

TITLE SHEET
SHEET NUMBER



MUNICIPALITY NOTIFICATION LIMIT MAP
SCALE: N.T.S.

1



NOTES:
1. ABUTTERS MAP BASED ON INFORMATION OBTAINED FROM THE TOWN OF LEBANON GEOGRAPHIC INFORMATION SYSTEM.

ABUTTERS MAP
SCALE: 1"=600' FOR 11"x17"
1"=300' FOR 22"x34"

2

CELLCO PARTNERSHIP
d/b/a **verizon** WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEBANON CT PRIDES CORNER FARM

CSC DRAWINGS

0	02/23/18	FOR SUBMITTAL
A	02/07/18	FOR COMMENT

Dewberry
Dewberry Engineers Inc.
800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
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SITE ADDRESS
122 WATERMAN ROAD
LEBANON, CT 06249
NEW LONDON COUNTY

SHEET TITLE

ABUTTERS MAP

SHEET NUMBER

**LEBANON CT
PRIDES CORNER
FARM**

CSC DRAWINGS

0	02/23/18	FOR SUBMITTAL
A	02/07/18	FOR COMMENT



Dewberry Engineers Inc.
800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

JIANG YU, P.E.
CONNECTICUT LICENSE NO. 0023222

DRAWN BY: JC

REVIEWED BY: BSH

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50094404

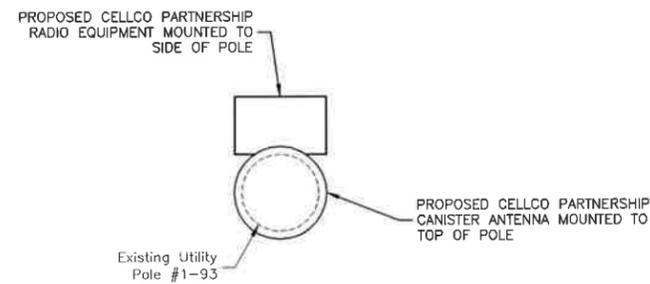
SITE ADDRESS

122 WATERMAN ROAD
LEBANON, CT 06249
NEW LONDON COUNTY

SHEET TITLE

ANTENNA MOUNTING
CONFIGURATION &
NORTH ELEVATION

SHEET NUMBER

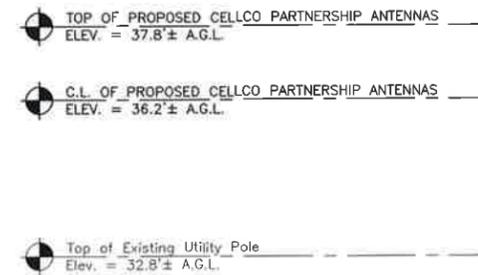


NOTE:

1. ANTENNA MOUNTING CONFIGURATION IS PROVIDED FOR SITING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.

ANTENNA MOUNTING CONFIGURATION

SCALE: 1/2"=1' FOR 11"x17"
1"=1' FOR 22"x34"



PROPOSED CELLCO PARTNERSHIP
1/2"Ø COAX IN 2" U-GUARD
MOUNTED TO EXISTING POLE

Existing Utility
Pole #1-93

PROPOSED CELLCO PARTNERSHIP
POWER CONDUIT ROUTED ALONG
BUILDING EXTERIOR TO UTILITY POLE

PROPOSED CELLCO PARTNERSHIP
FIBER CONDUIT ROUTED ALONG
BUILDING EXTERIOR TO UTILITY POLE

PROPOSED CELLCO PARTNERSHIP
FIBER DEMARC MOUNTED TO
EXISTING UTILITY POLE

PROPOSED CELLCO PARTNERSHIP
RADIO EQUIPMENT MOUNTED TO
EXISTING UTILITY POLE

PROPOSED CELLCO PARTNERSHIP
ELECTRICAL SERVICE EQUIPMENT
MOUNTED TO EXISTING UTILITY POLE

PROPOSED CELLCO PARTNERSHIP
FIBER CONDUIT TO PENETRATE
EXTERIOR BUILDING FACADE

PROPOSED CELLCO PARTNERSHIP
VERTICAL FIBER CONDUIT ROUTED FROM
EXISTING TELCO ROOM TO CEILING

NOTES:

1. NORTH SHOWN AS APPROXIMATE.
2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
3. THESE DRAWINGS ARE PROVIDED FOR SITING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
4. SITE PLAN & ELEVATION ARE BASED ON SITE VISITS BY DEWBERRY ENGINEERS INC. ON 07/03/14 & 10/20/17.
5. LOCATION & ORIENTATION OF ALL ANTENNAS, COAX & EQUIPMENT SHALL BE MOUNTED PER STRUCTURAL LETTER BY DEWBERRY ENGINEERS INC. DATED 11/15/17.
6. GROUND WILL BE TO EXISTING BUILDING STEEL.
7. EXISTING HOSE MOUNTED TO UTILITY POLE TO BE REMOVED BY LANDLORD.
8. THERE WILL BE NO PROPOSED GROUND DISTURBANCE.
9. POWER/FIBER CONDUITS TO BE ROUTED ALONG BUILDING EXTERIOR.
10. FIBER TO BE ROUTED AERIALLY FROM WATERMAN ROAD TO BUILDING VIA EXISTING UTILITY POLES.

Top of Existing Roof
Elev. = 14.7'± A.G.L.

Existing Building

Existing Telco Room

Existing Garage Opening

Existing Window

Existing Tree

NORTH ELEVATION

SCALE: 1/4"=1' FOR 11"x17"
1/2"=1' FOR 22"x34"



Existing Grade
Elev. = 0'-0" A.G.L.

ATTACHMENT 3



NH360QS-DG-FOM

2-port small cell antenna, 2x (698-896 and 1710-2180 MHz), 360° HPBW with fixed tilt in the low band and manual tilt in the high band. Contains internal diplexer and active GPS L1 band antenna

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2180
Gain, dBi	5.2	5.5	8.2	8.3	8.6
Beamwidth, Horizontal, degrees	360	360	360	360	360
Beamwidth, Vertical, degrees	35.4	35.6	15.1	14.0	13.3
Beam Tilt, degrees	0	0	0-16	0-16	0-16
USLS (First Lobe), dB	13	13	10	13	10
Isolation, dB	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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	125	125	125	125	125
Polarization	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm				

Electrical Specifications, BASTA*

Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2180
Gain by all Beam Tilts, average, dBi	4.2	4.8	7.6	7.8	7.9
Gain by all Beam Tilts Tolerance, dB	±1	±0.7	±0.6	±0.7	±0.8
Gain by Beam Tilt, average, dBi			0 ° 7.9 8 ° 7.7 16 ° 7.2	0 ° 8.0 8 ° 7.9 16 ° 7.3	0 ° 8.3 8 ° 8.0 16 ° 7.5
Beamwidth, Vertical Tolerance, degrees	±4.2	±5.8	±1.3	±1	±1.2
USLS, beampeak to 20° above beampeak, dB	14	13	14	14	12

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Operating Frequency Band	1710 - 2180 MHz 698 - 896 MHz
Antenna Type	Small Cell
Band	Multiband
Internal GPS frequency band	1575.42 MHz
Internal GPS VSWR	2.0
Performance Note	Outdoor usage

NH360QS-DG-F0M

Mechanical Specifications

RF Connector Quantity, total	2
RF Connector Interface	7-16 DIN Female
Color	Light gray
GPS Connector Interface	4.1-9.5 DIN Female
GPS Connector Quantity	1
Grounding Type	RF connector inner conductor and body grounded to reflector and mounting bracket
Radiator Material	Aluminum Low loss circuit board
Radome Material	ASA, UV stabilized
Reflector Material	Aluminum
RF Connector Location	Bottom
RF Connector Quantity, diplexed low and high bands	2
Wind Loading, maximum	167.0 N @ 150 km/h 37.5 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Length	728.0 mm 28.7 in
Outer Diameter	305.0 mm 12.0 in
Net Weight, without mounting kit	12.1 kg 26.7 lb

Packed Dimensions

Length	998.0 mm 39.3 in
Width	427.0 mm 16.8 in
Depth	407.0 mm 16.0 in
Shipping Weight	16.8 kg 37.0 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Performance Note Severe environmental conditions may degrade optimum performance

ALCATEL-LUCENT B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering.

Supporting 2Tx/4Tx MIMO and 4-way Rx diversity, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

Its compactness and slim design makes the Alcatel-Lucent B13 RRH4x30-4R easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

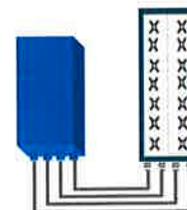


FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R
or
2x60W with 2T4R
Can be switched between
modes via SW w/o site
visit

TECHNICAL SPECIFICATIONS

Features & performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
Instantaneous bandwidth - #carriers	10MHz – 1 LTE carrier (In 10MHz occupied bandwidth)
LTE carrier bandwidth	10 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure – RX Diversity scheme	2 dB typ. (<2.5 dB max) – 2 or 4 way Rx diversity
Sizes (HxWxD) in mm (in.)	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
Volume in L	38 (with solar shield)
Weight in kg (lb) (w/o mounting HW)	26 (57.2) (with solar shield)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	550W typical @100% RF load (In 2Tx or 4TX mode)
Environmental conditions	-40°C (-40°F) /+55°C (+131°F) IP65
Wind load (@150km/h or 93mph)	Frontal:<200N / Lateral :<150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
AISG interfaces	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) – 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

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ATTACHMENT 4

ATTACHMENT 5

Site Name: Lebanon Prides Corner 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	0	0	36.2	0.0000	1.0	0.00%
VZW Cellular	869	0	0	0	36.2	0.0000	0.5793333333	0.00%
VZW AWS	2145	0	0	0	36.2	0.0000	1.0	0.00%
VZW 700	746	1	299	299	36.2	0.0821	0.4973333333	16.50%

Total Percentage of Maximum Permissible Exposure

16.50%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Section 1.13101 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, including the following assumptions:

1. closest accessible point is distance from antenna to base of pole;
2. continuous transmission from all available channels at full power for indefinite time period; and,
3. all RF energy is assumed to be directed solely to the base of the pole.

ATTACHMENT 6

February 28, 2018

Via Certificate of Mailing

Betsie Petrie, First Selectman
Town of Lebanon
579 Exeter Road
Lebanon, CT 06249

Re: Proposed Installation of a Small Cell Telecommunications Facility at Prides Corner Farm, 122 Waterman Road, Lebanon, Connecticut

Dear Ms. Petrie:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to modify the existing wireless telecommunications facility at Prides Corner Farm, 122 Waterman Road in Lebanon (the “Property”). The existing facility consists of two 30-inch yagi antennas attached to a 32.8-foot wood utility pole adjacent to the existing office building at the Property. Cellco intends to remove the two existing antennas and install a single canister antenna at the top of the existing wood pole. Cellco’s remote radio head and electrical service equipment will be attached to the lower portion of the pole.

As presented in the Sub-Petition, the proposed “small cell” facility modifications at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of this Sub-Petition.

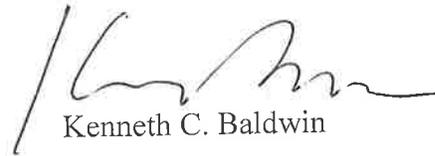
Robinson + Cole

Betsie Petrie, First Selectman
February 28, 2018
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

February 28, 2018

Via Certificate of Mailing

Phillip Chester, Town Planner
Town of Lebanon
579 Exeter Road
Lebanon, CT 06249

Re: **Proposed Installation of a Small Cell Telecommunications Facility at 122 Waterman Road, Lebanon, Connecticut**

Dear Mr. Chester:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to modify the existing wireless telecommunications facility at Prides Corner Farm, 122 Waterman Road in Lebanon (the “Property”). The existing facility consists of two 30-inch yagi antennas attached to a 32.8-foot wood utility pole adjacent to the existing office building at the Property. Cellco intends to remove the two existing antennas and install a single canister antenna at the top of the existing wood pole. Cellco’s remote radio head and electrical service equipment will be attached to the lower portion of the pole.

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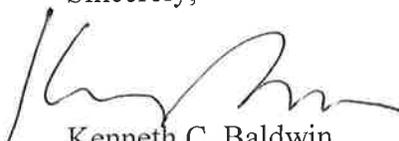
Robinson + Cole

Phillip Chester, Town Planner
February 28, 2018
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

February 28, 2018

Via Certificate of Mailing

Prides Corner Farm Nursery
122 Waterman Road
Lebanon, CT 06247

Re: Proposed Installation of a Small Cell Telecommunications Facility at 122 Waterman Road, Lebanon, Connecticut

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to modify the existing wireless telecommunications facility at Prides Corner Farm, 122 Waterman Road in Lebanon (the “Property”). The existing facility consists of two 30-inch yagi antennas attached to a 32.8-foot wood utility pole adjacent to the existing office building at the Property. Cellco intends to remove the two existing antennas and install a single canister antenna at the top of the existing wood pole. Cellco’s remote radio head and electrical service equipment will be attached to the lower portion of the pole.

As presented in the Sub-Petition, the proposed “small cell” facility modifications at the Property constitute an eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of this Sub-Petition.

Robinson + Cole

Prides Corner Farm Nursery
February 28, 2018
Page 2

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the attached Sub-Petition.

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

Sincerely,



Kenneth C. Baldwin

Attachment

ATTACHMENT 7

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

February 28, 2018

Via Certificate of Mailing

«Name_and_Address»

Re: Sub-Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Telecommunications Facility at 122 Waterman Road, Lebanon, Connecticut

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Sub-Petition for Declaratory Ruling (“Sub-Petition”) with the Connecticut Siting Council (“Council”) seeking approval to modify the existing wireless telecommunications facility at Prides Corner Farm, 122 Waterman Road in Lebanon (the “Property”). The existing facility consists of two 30-inch yagi antennas attached to a 32.8-foot wood utility pole adjacent to the existing office building at the Property. Cellco intends to remove the two existing antennas and install a single canister antenna at the top of the existing wood pole. Cellco’s remote radio head and electrical service equipment will be attached to the lower portion of the pole.

The facility modifications constitute a eligible facility request pursuant to Section 6409(a) of the Federal Middle Class Tax Relief and Job Creation Act of 2012 (47 U.S.C. § 1455(a)) and the October 21, 2014 Order of the Federal Communications Commission (FCC-14-533). A copy of the full Sub-Petition is attached for your review.

Pursuant to its decision in Petition No. 1133, comments or concerns regarding this proposal should be submitted to the Council within thirty (30) days of the date of the Sub-Petition.

February 28, 2018

Page 2

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 Sub-Petition, the Council's process for reviewing the Sub-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.

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

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTERS LIST

**122 WATERMAN ROAD
LEBANON, CONNECTICUT**

	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	Waterman Road	James R. Abell, Jr. 5 Waterman Road Lebanon, CT 06249
2.	126 Madley Road	Green Promise Farms LLC 122 Waterman Road Lebanon, CT 06249
3.	Waterman Road	Kathleen Abell Foley 43 Waterman Road Lebanon, CT 06249
4.	43 Waterman Road	David P. and Kathleen A. Foley 43 Waterman Road Lebanon, CT 06249
5.	Waterman Road	Kathleen Abell Foley 43 Waterman Road Lebanon, CT 06249
6.	Waterman Road	James R. Abell, Jr. 5 Waterman Road Lebanon, CT 06249
7.	1101 Trumbull Highway	Shane Yerkes and Stephanie Bice 121 Lillibridge Avenue Voluntown, CT 06384
8.	1155 Trumbull Highway	David Shaw 1155 Trumbull Highway Lebanon, CT 06249
9.	1175 Trumbull Highway	Prides Corner Farms Inc. 122 Waterman Road Lebanon, CT 06249

	<u>Property Address</u>	<u>Owner and Mailing Address</u>
10.	1193 Trumbull Highway	Prides Corner Farms Inc. 122 Waterman Road Lebanon, CT 06249
11.	123 Madley Road	Ted B. Fischer and Dalonne R. Brewer 123 Madley Road Lebanon, CT 06249
12.	125 Waterman Road	Ted B. and Dalonne R. Fischer 125 Waterman Road Lebanon, CT 06249
13.	135 Waterman Road	Ted B. and Dalonne R. Fischer 125 Waterman Road Lebanon, CT 06249
14.	197 Waterman Road	Prides Corner Farms Inc. 122 Waterman Road Lebanon, CT 06249
15.	174 Waterman Road	Town of Lebanon 579 Exeter Road Lebanon, CT 06249
16.	Trumbull Highway	Marc J. Wolf 1223 Trumbull Highway Lebanon, CT 06249
17.	227 Waterman Road	Three Sons Realty LLC 21 Acorn Ridge Road Glastonbury, CT 06073
18.	228 Waterman Road	Three Sons Realty LLC c/o Mike Rizzo 122 Waterman Road Lebanon, CT 06249
19.	240 Waterman Road	Three Sons Realty LLC 122 Waterman Road Lebanon, CT 06249
20.	1223 Trumbull Highway	Marc J. and Robin F. Wolf 1223 Trumbull Highway Lebanon, CT 06249