# STATE OF CONNECTICUT CONNECTICUT SITING COUNCIL

:

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 THE PAVILION, 85 SWAN AVENUE, OLD

LYME, CONNECTICUT : FEBRUARY 6, 2017

# 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 "small cell"

telecommunications facility at The Pavilion located at 85 Swan Avenue in Old Lyme,

Connecticut (the "Property"). The Property is owned by Long Island Sound Properties LLC and

is used for commercial purposes. Cellco refers to the proposed facility as its "Old Lyme SC5

Facility".

### II. Factual Background

15549676-v1

The Property is an approximately 0.46-acre parcel in Old Lyme's R-10 zone district. *See*Attachment 1 – Site Vicinity and Site Schematic Maps (Aerial Photograph). Cellco is licensed to

provide wireless telecommunications services in the 700 MHz, 850 MHz, 1900 MHz and 2100 MHz frequency ranges in Old Lyme and throughout the State of Connecticut. Initially, the proposed Old Lyme SC5 Facility will provide wireless service in Cellco's 2100 MHz frequency range only.

# A. Proposed Old Lyme SC 5 Facility

The proposed Old Lyme SC5 Facility would consist of a small tower mast attached in the northerly portion of the roof of The Pavilion building. The tower will support a single canister antenna (Model NH-180QS-DG 2100 MHz). A remote radio head ("RRH") (Model B25-RRH4x30) and associated electrical equipment boxes would be attached to the northerly façade of the building and will be screened by an eight-foot tall wood fence. The tower and antenna will extend to a height of approximately 25'-11" above ground level (AGL); approximately 7'-6" above the roof. (*See* Cellco's Project Plans included in <u>Attachment 2</u>). Power and telephone service to the Old Lyme SC 5 Facility will extend from existing service at the Property.

Specifications for the Old Lyme SC 5 Facility antenna and RRH are included in <u>Attachment 3</u>.

# III. 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 tower/mast attached to the roof and supporting a canister antenna and associated radio and electrical equipment attached to the façade of the building, will not involve a significant alteration in the physical and environmental characteristics of the Property. No tree removal is required and only minimal ground disturbance is needed to install the facility. There are no wetland areas on the Property and, therefore, no wetlands will be impacted by the installation of the proposed small cell facility.

# Visual Effects

The visibility of the proposed "small cell" facility would be limited to locations within approximately 500 feet of the building, including the Old Lyme Beach area. (See Visual Assessment & Photo-Simulations ("Visual Assessment") included in Attachment 4). All views of the Old Lyme SC5 Facility would include mechanical equipment and other appurtenances on The Pavilion building's roof and facade as well as overhead utility infrastructure. The buildingmounted radio and electrical equipment would be screened by a fence painted to match the building. Based on the results of a Visual Assessment, Cellco has determined that the proposed "small cell" facility will not have an adverse visual impact on the views of The Pavilion building or the character of the existing community.

# 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 <a href="Mattachment 5"><u>Attachment 5</u></a> is a worst-case MPE calculation for Cellco's "small cell" antenna at a centerline height of 25 feet AGL. This calculation indicates that the Old Lyme small cell facility will operate well within (22.15% of the standard) the RF emission standards established by the FCC.

# FAA Summary Report

Included in <u>Attachment 6</u> of this Petition is a Federal Airways & Airspace Summary

Report verifying that the new replacement pole described above would constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

# B. Notice to First Selectman, Property Owner and Abutting Landowners

On February 6, 2017, a copy of this Petition was sent to Old Lyme First Selectwoman,
Bonnie Reemsnyder and Long Island Sound Properties LLC, the owner of the Property. Notice
of Cellco's intent to file the Petition was also sent to the owners of land that abuts the Property.
Included in Attachment 7 is a copy of the letter sent to First Selectwoman Reemsnyder and Long
Island Sound Properties LLC. Included in Attachment 8 is a sample abutter's letter and the list of
those abutting landowners who were sent notice of the filing of the Petition.

# IV. 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 tower/mast used to support a "small cell" wireless antenna and related radio equipment 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

Surrounding Verizon Wireless Facilities

Municipal Boundary



# Site Vicinity Map

Proposed Wireless Telecommunications Facility Old Lyme SC5 CT The Pavilion 85 Swan Avenue Old Lyme, Connecticut







### Legend

Proposed Verizon Wireless Antenna

Proposed Verizon Wireless Equipment Area
Proposed Verizon Wireless Cable

Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)

Subject Property

Map Notes:
Base Map Source: ESRI World Imagery
Map Scale: 1 inch = 75 feet
Map Date: January 2017



Proposed Wireless
Telecommunications Facility
Old Lyme SC5 CT
The Pavilion
85 Swan Avenue
Old Lyme, Connecticut





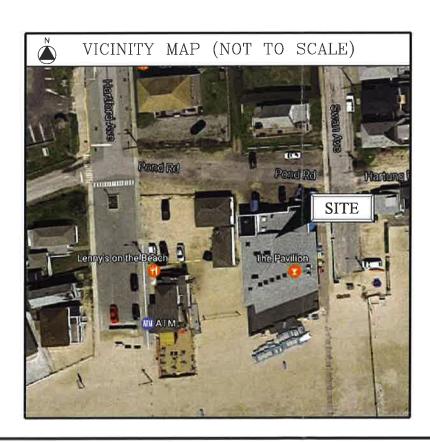
# **ATTACHMENT 2**



# WIRELESS COMMUNICATIONS FACILITY

SITE NAME: OLD LYME SC5 CT

THE PAVILION RESTAURANT
85 SWAN AVE
OLD LYME, CT 06371
SMALL CELL ROOFTOP



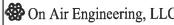
PRU	JECT SUMMARY
SITE NAME:	OLD LYME SC5 CT
SITE ADDRESS:	THE PAVILION RESTAURANT 85 SWAN AVE OLD LYME, CT 06371
PROPERTY OWNER:	LONG ISLAND SOUND PROPERTIES LLC 80 BANNAN LA BERLIN, CT 06037
PARCEL ID:	76-13
SITE COORDINATES:	41° 17' 04.68" N 72° 16' 37.97" W
APPLICANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DR., 9TH FL. EAST HARTFORD, CT 06108
VERIZON WIRELESS CONTACTS:	JOHN TIERNEY - CONSTR. (860) 999-1179 STEVE SCHADLER - SAC (508) 887-0357
LEGAL/REGULATORY COUNSEL;	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE, LLP (860) 275-8345

	DRAWING SCHEDULE		
SHEET NO.	SHEET DESCRIPTION		
T-1	TITLE SHEET		
C-1	ROOF PLAN		
C-2	NORTH ELEVATION, EQUIPMENT PLAN & DETAILS		
C-3	ABUTTERS MAP & PROPERTY OWNER LIST		

Cellco Partnership d/b/a Verizon Wireless



WIRELESS COMMUNICATIONS FACILITY
99 EAST RIVER DRIVE
EAST HARTFORD, CT 06108



88 Foundry Pond Road Cold Spring, NY 10516 onair@optonline.net 201-456-4624

LICENSURE

DAVID WEINPAHL, P.E. CT LIC. NO. 22144

DATE:	SUBMISSIONS
01.05.17	REVIEW
01.20.17	REVISED PER ATTORNEY COMMENTS
	01.05.17

AS DW

SITE NAME

OLD LYME SC5 CT

PROJECT DESCRIPTIO

SMALL CELL

PROJECT INFORMAT

THE PAVILION RESTAURANT 85 SWAN AVE. OLD LYME, CT 06371

DRAWING TITLE

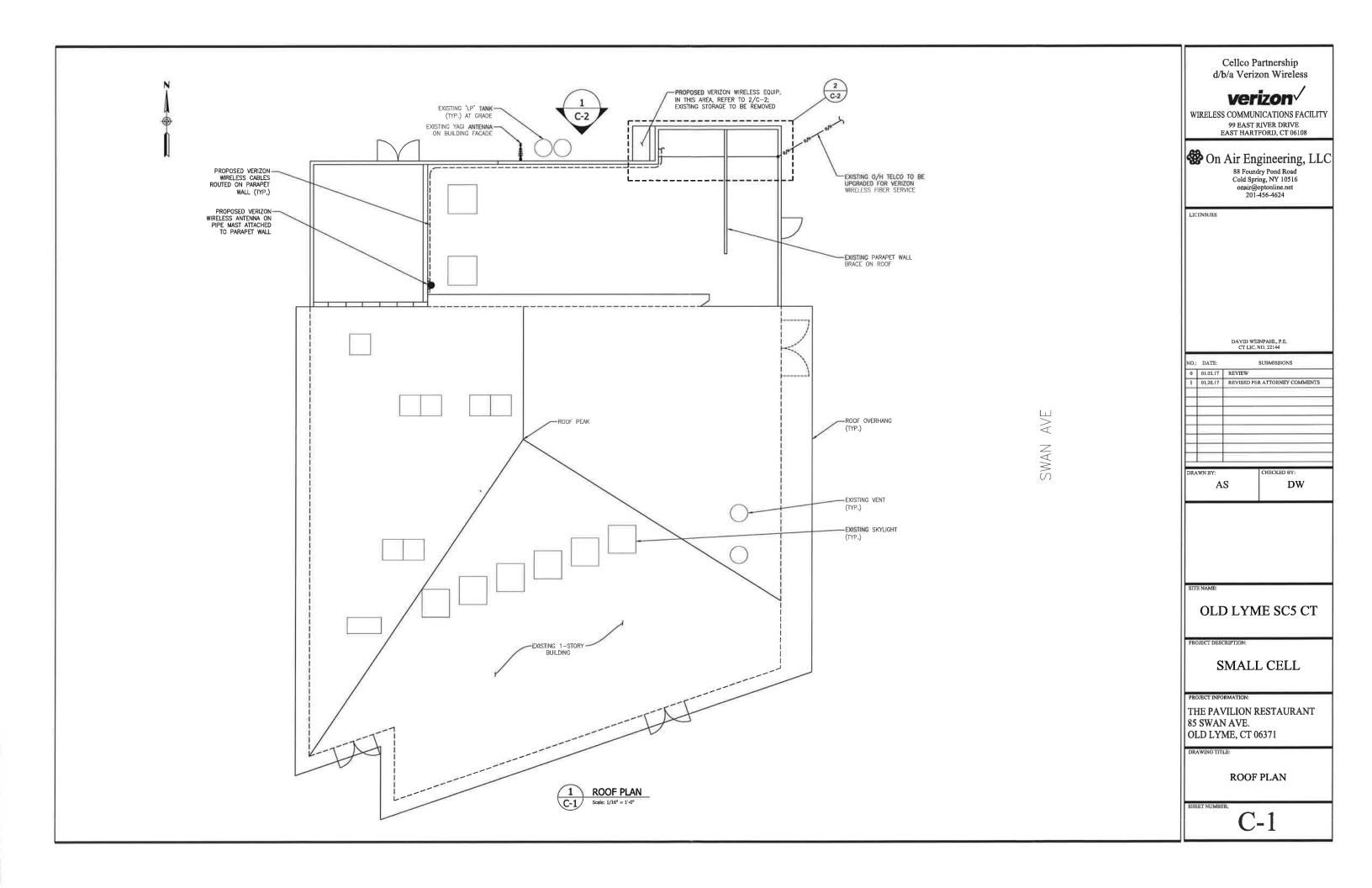
TITLE SHEET

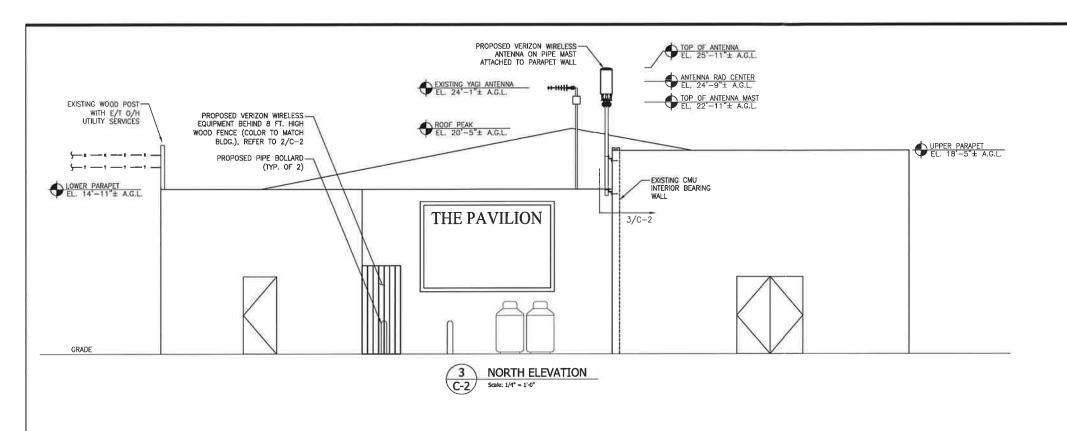
SHEET NUMBI

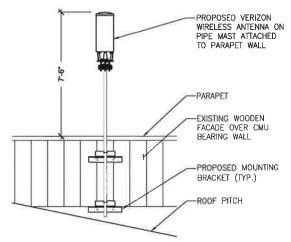
T-1

# PROJECT DESCRIPTION

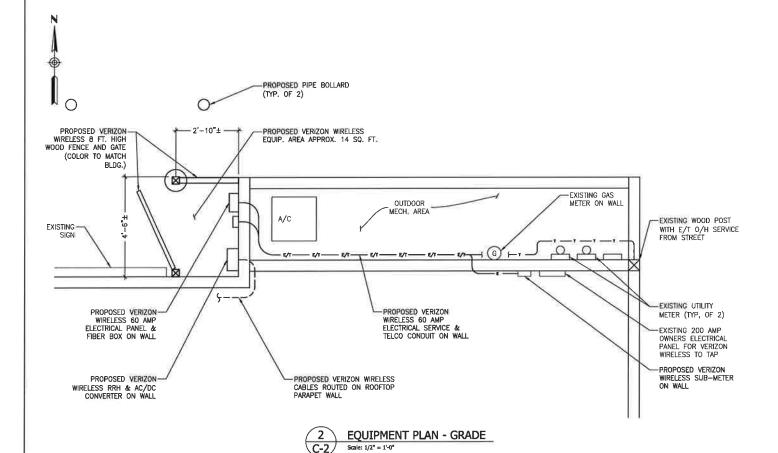
INSTALLATION OF (1) SMALL CELL ANTENNA PIPE MOUNTED TO A BUILDING PARAPET WALL
 INSTALLATION OF SMALL CELL EQUIPMENT AT GRADE BEHIND A NEW FENCED AREA
 ELECTRICAL, TELEPHONE & GROUNDING CONNECTIONS TO EXISTING UTILITIES







ANTENNA MOUNTING DETAIL Scale: 3/8" = 1'-0"

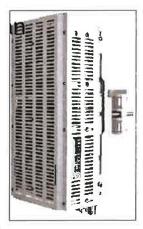


SCHEDULE OF PROPOSED EQUIPMENT						
ITEM DESCRIPTION HEIGHT (in)   WIDTH (in)   DEPTH (in)   WEIGHT (ibs)   COMMENTS						
SMALL CELL ANTENNA	28.7	12 Ø		26.7	COMMSCOPE NH180QS-DG-FOM	
REMOTE RADIO UNIT (RRH)	25.8	12,0	7.3	77	ALU RH_4x45-AWS; WEIGHT INCLUDES MTG. BRACKET	
AC/DC CONVERTER	8.3	14.1	3.5	5	ADVANTAGE 1KW POWER SUPPLY	
FIBER DEMARC	12	10	4	5	VERIFY FINAL SPECS WITH TELCO PROVIDER	



Scale: N.T.S.





RRH & MOUNTING BRACKET

Cellco Partnership d/b/a Verizon Wireless



WIRELESS COMMUNICATIONS FACILITY 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

On Air Engineering, LLC

88 Foundry Pond Road Cold Spring, NY 10516 onair@optonline.net 201-456-4624

LICENSURE

NO:	DATE:	SUBMISSIONS
0	01.05.17	REVIEW
1	01.20.17	REVISED PER ATTORNEY COMMENTS
-		
-	_	

AS DW

OLD LYME SC5 CT

PROJECT DESCRIPTION:

SMALL CELL

THE PAVILION RESTAURANT 85 SWAN AVE. OLD LYME, CT 06371

NORTH ELEVATION, **EQUIPMENT PLAN** & DETAILS

C-2



ABUTTERS LIST FROM PARCEL 76-13					
PARCEL#	OWNER NAME	OWNER MAILING ADDRESS	PROPERTY ADDRESS		
76-14	FALLO THOMAS P & KAREN M W/S	12 WINTERWOOD TERR, FARMINGTON, CT 06032	81 SWAN AVE		
76-18	SERAPILIA MARGARET A & STOKES TIMOTHY J & JAMIE LYNN	84 SWAN AVE, OLD LYME, CT 06371	84 SWAN AVE		
76-55-1	PAULA DARCY	6308 ABILENE TRAIL, AUSTIN, TX 78749	88 SWAN AVE		
76-55-2	MARILYN & PAUL FANELLI JR	25 OLD WOLCOTT RO, BRISTOL, CT 06010	88-1 SWAN AVE		
76-55-3	JAMES & STEPHANIE LIVESY	88-2 SWAN AVE, OLD LYME, CT 06371	88-2 SWAN AVE		
76-55	KAREN CAMP	29 WORTHINGTON DRIVE, FARMINGTON, CT 06032	90A SWAN AVE		
76-55-4	CHRISTINE KISS	3 NAUSET LANE, UNIONVILLE, CT 06085	90B SWAN AVE		
76-56	OLD COLONY BEACH ASSOC	PO BOX 10, OLD LYME, CT 06371	OLD COLONY RDS		
76-12	LONG ISLAND SOUND PROPERTIES LLC	80 BANNAN LA, BERLIN, CT 06037	92-1 HARTFORD AVE		
7 <del>6</del> -11	SOUND VIEW PROPERTY MANAGEMENT LLC	30 EAST MAIN ST, AVON, CT 06011	88 HARTFORD AVE		
76-9	LONG ISLAND SOUND PROPERTIES LLC	80 BANNAN LA, BERLIN, CT 06037	86 HARTFORD AVE		
76-7	ORZEL PAUL J & CHRISTINE I	84 HARTFORD AVE, OLD LYME, CT 06371	84 HARTFORD AVE		

NOTES TO ABUTTERS MAP & OWNERS LIST:

1. ALL INFORMATION TAKEN FROM THE TOWN OF OLD LYME WEBSITE "GIS" MAPPING, DECEMBER 2016.

Cellco Partnership d/b/a Verizon Wireless



WIRELESS COMMUNICATIONS FACILITY 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108

On Air Engineering, LLC

88 Foundry Pond Road
Cold Spring, NY 10516
onair@optonline.net
201-456-4624

LICENSURE

DAVID WEINPAHL, P.E. CT LIC. NO. 22144

10.	DATE;	SUBMISSIONS
0	01,05,17	REVIEW
1	01,20,17	REVISED PER ATTORNEY COMMENTS
=		

AS DW

OLD LYME SC5 CT

SMALL CELL

THE PAVILION RESTAURANT 85 SWAN AVE. OLD LYME, CT 06371

ABUTTERS MAP & PROPERTY OWNER LIST

C-3

# **ATTACHMENT 3**

# **Product Specifications**



# NH180QS-DG-FOM

Andrew® Dualband half Quasi omni Metro Cell Antenna, 698-896 and 1710-2170 MHz 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	1920-2170
Gain, dBi	6.0	6.8	9.7	9.7	9.9
Beamwidth, Horizontal, degrees	193	180	181	182	179
Beamwidth, Vertical, degrees	36.8	33.9	15.3	14.1	13.3
Beam Tilt, degrees	0	0	0-16	0-16	0-16
USLS, dB	14	14	9	10	9
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°

### **Mechanical Specifications**

Color   Radome Material	Light gray   ASA, UV stabilized
Connector Interface   Location   Quantit	y 7-16 DIN Female   Bottom   2
GPS Connector Interface   Quantity	4.1-9.5 DIN Female   1
Wind Loading, maximum	167.0 N @ 150 km/h 37.5 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h   149.8 mph
Antenna Dimensions, L x OD	728.0 mm x 305.0 mm   28.7 in x 12.0 in
Net Weight	11.5 kg   25.4 lb

# ALCATEL LUCENT B66A RRH4X45

The Alcatel-Lucent B66a Remote Radio Head 4x45 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. Its operational range covers beyond that of B4 (AWS) and B10 (AWS+).

Supporting 2Tx/4Tx MIMO and 2-way/4-way Rx diversity, the Alcatel-Lucent B66a RRH4x45 allows operators to have a compact radio solution to deploy LTE in the 2100 band (3GPP band 4, 10, and 66), providing them with the means to achieve high capacity, high quality, high reliability, large instantaneous bandwidth, and high coverage with minimum site requirements.

The Alcatel-Lucent B66a RRH4x45 product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x90W or 4x45W RF output power. It also supports 4-way Rx diversity at the 70 MHz instantaneous bandwidth.

The Alcatel-Lucent B66a RRH4x45 is a compact (near zero-footprint) solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

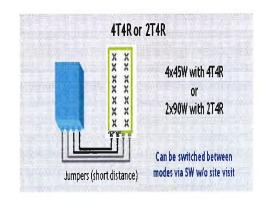
Its compactness and slim design makes the Alcatel-Lucent B66a RRH4x45 easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

### **FEATURES**

- Supporting LTE in 2110 2180 MHz band/DL, 1710-1780MHz/UL (3GPP band 4, 10, and 66a)
- LTE 2Tx or 4Tx MIMO (SW selectable)
- Configuration: 2T2R/2T4R/4T4R
- Output power: Up to 2x90W or 4x45W (SW configurable)
- 70MHz 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 AWS 1-3 band
- Selection of MIMO configuration (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through 4Tx MIMO
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- · Flexible mounting options: Pole or Wall





Features & Performance				
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R selectable by SW)			
Frequency band	AWS 1-3, B4/B66a DL: 2110-2180 MHz / UL: 1710-1780 MHz			
Instantaneous bandwidth - #carriers	70 MHz - 4 LTE MIMO carriers (in 70 MHz occupied bandwidth)			
LTE carrier bandwidth	5, 10, 15, 20 MHz			
RF output power	2x90W or 4x45W (selectable by SW)			
Noise figure – RX Diversity scheme Receiver Sensivity (FRC A1-3)	2 dB-typical (<2.5 dB:max) – 2 or 4 way Rx diversity104.5 dBm maximum			
Sizes (HxWxD) in mm (in.)	655x299x182 (25.8x11.8x7.2) (with solar shield) 640x290x160 (25.2x11.4x6.3) (without solar shield)			
Volume in Liters	35.5 (with solar shield) 29.7 (without solar shield)			
Weight in kg (lb) (w/o mounting HW)	25.8kg (56.8lb) (with solar shield)			
DC voltage range	Nominal: 48V, -40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption			
DC power consumption	750W typical @100% RF load (in 2Tx or 4Tx mode); Add 58W for 2A*29V for AISG			
Environmental conditions	-40°C (-40°F) /+55°C (+131°F) UL50E Type 4 Enclosure			
Wind load (@150km/h or 93mph)	250N (56lb) Frontal/150N (34lb) Lateral			
Antenna ports	4 ports 4.3-10 female (50 ohms) VSWR < 1.5			
CPRI ports	2 CPRI ports (HW ready for Rate 7, 9.8 Gbps) SFP: SMDF (HW supports also SMSF and MMDF)			
AISG interfaces	1 AISG 2.0 output (RS485) Integrated-Smart-Bias-Tees (x2)			
Misc. Interfaces	4 external alarms (1 connector)  1 DC connector (2 pins)			
Installation conditions	Pole and wall mounting			
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-487 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27 / FCC Part 15 / GR-3178-CORE			

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# **ATTACHMENT 4**

# Visual Assessment & Photo-Simulations

OLD LYME SC5 CT THE PAVILION 85 SWAN AVENUE OLD LYME, CT 06371

Prepared in January 2017 by: All-Points Technology Corporation, P.C. 3 Saddlebrook Drive Killingworth, CT 06419 Prepared for Verizon Wireless



# **VISUAL ASSESSMENT & PHOTO-SIMULATIONS**

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed this visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a small cell wireless telecommunications Facility at The Pavilion, located at 85 Swan Avenue in Old Lyme Connecticut (the "Property").

# **Project Setting**

The Property is located at the southwest terminus of Swan Avenue in a mostly residential area on Old Lyme Beach. The Property is currently developed with a single story building that is used as a seasonal restaurant and bar. The proposed Facility would include the installation of a single, pipe-mast mounted omni-directional canister antenna affixed to the building's parapet wall. The top of the antenna would rise to a height approximately eight (8) feet above the existing parapet and nearly six (6) feet above the building's peaked roofline. A proposed equipment area would be located within a wood fence enclosure on the north side of the building. The enclosure will be painted to match the building exterior.

# Methodology

On January 5, 2017, APT personnel conducted field reconnaissance and photo-documented existing conditions. Six (6) nearby locations were selected to depict existing and proposed conditions and to provide an approximate extent of the proposed installation's visibility. 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 the lens set to 50 mm to present a consistent field of view.

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. A photolog map and copies of the existing conditions and photo-simulations are attached.

The six (6) photo locations were chosen in the field because they presented generally unobstructed view lines towards at least a portion of the building and represent the approximate limits of visibility associated with the proposed installation. Five (5) of these locations were simulated to depict the proposed installation. The simulations are however static in nature and do not necessarily fairly characterize the prevailing views from all locations within a given area. The simulations provide a representation of the proposed Facility under similar settings as those encountered during the field reconnaissance. Views of the Facility can change substantially throughout the seasons as well as the time of day, and are dependent on weather and other atmospheric

conditions including but not necessarily limited to haze, fog, and clouds; the location, angle and intensity of the sun; light conditions, and the specific viewer location.

# **Photograph Locations**

The table below summarizes characteristics of the photographs and simulations presented in the attachment to this report including a description of each location, view orientation, and the distance from where the photo was taken relative to the proposed Facility. The photo locations are depicted on the visibility analysis map provided as an attachment to this report.

View	Location	Orientation	Distance
			to Site
1	Old Lyme Beach	North	±222 Feet
2	Old Lyme Beach	Northeast	±188 Feet
3	Portland Avenue	Southeast	±407 Feet
4	Portland Avenue	Southeast	±407 Feet
5	Swan Avenue	Southwest	±161 Feet
6	Old Lyme Beach (Facility will not be visible from this location)	Northwest	±572 Feet

### Conclusions

The visibility of the proposed installation would be limited primarily to nearby locations within ±500 feet of the building, including portions of Old Lyme Beach and its shoreline. All views of the Facility would include mechanical equipment and other appurtenances affixed to the building's roof and sides, as well as overhead utility infrastructure. The Facility's design incorporates concealment with the exterior ground equipment enclosed within a wood fence and gate that will be painted to match the building.

Based on the results of this assessment, it is our opinion that the proposed installation of the Verizon Wireless communications facility will not have an adverse visual impact on existing views of this building or the character of the community.

# ATTACHMENTS

ALL-POINTS
TECHNOLOGY CORPORATION

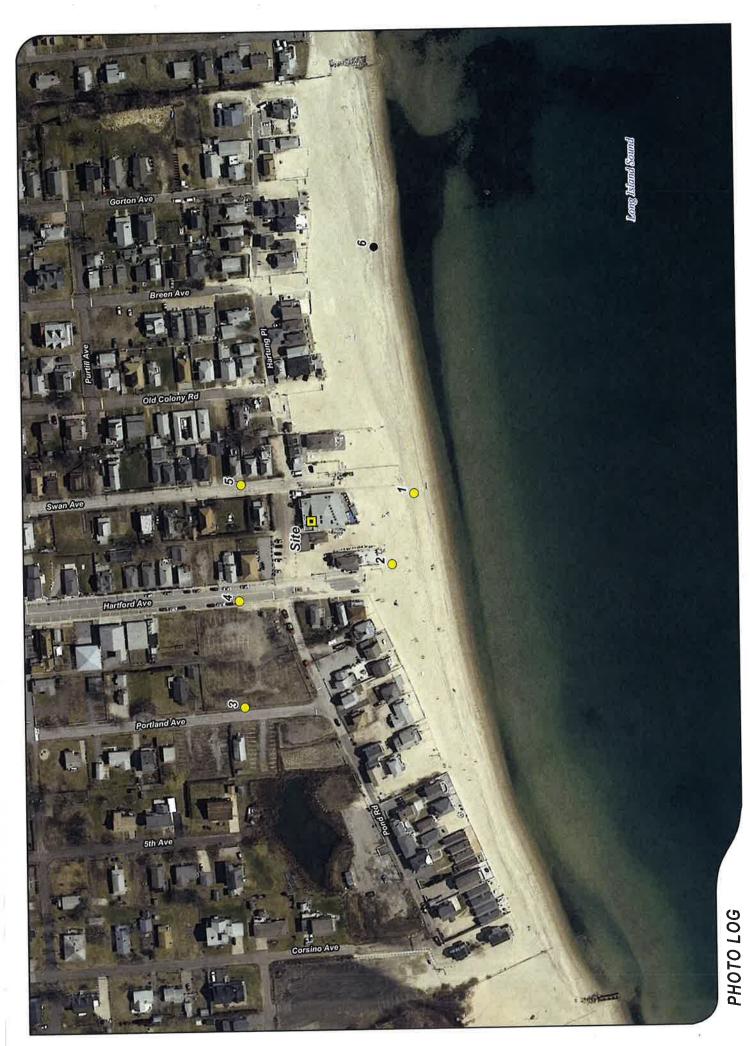
Legend

Site 

Year-Round Visibility 

Not Visible











ALL-POINTS TECHNOLOGY CORPORATION





ALL-POINTS VERIZON +/- 188 FEET

ORIENTATION NORTHEAST

DISTANCE TO SITE





DISTANCE TO SITE +/- 188 FEET

ORIENTATION



HOST PROPERTY LOCATION

**NORTHEAST** 

**PROPOSED** 

РНОТО





DISTANCE TO SITE +/- 407 FEET ORIENTATION SOUTHEAST PORTLAND AVENUE LOCATION EXISTING PHOTO





DISTANCE TO SITE +/- 407 FEET ORIENTATION SOUTHEAST PORTLAND AVENUE LOCATION **PROPOSED** PHOTO





DISTANCE TO SITE +/- 407 FEET ORIENTATION SOUTHEAST PORTLAND AVENUE LOCATION **EXISTING** РНОТО





DISTANCE TO SITE +/- 407 FEET ORIENTATION SOUTHEAST PORTLAND AVENUE LOCATION

**PROPOSED** PHOTO





ALL-POINTS VEIZON TECHNOLOGY CORPORATION +/- 161 FEET

DISTANCE TO SITE ORIENTATION SOUTHWEST

> **SWAN AVENUE** LOCATION

**EXISTING** 

РНОТО







DISTANCE TO SITE +/- 161 FEET

SOUTHWEST

ORIENTATION

**SWAN AVENUE** LOCATION

**PROPOSED** 

РНОТО







ALL-POINTS
TECHNOLOGY CORPORATION

# **ATTACHMENT 5**

# General Power Density

Site Name: Old Lyme SC 5, CT Cumulative Power Density

(MHz)         (watts)         (watts)         (feet)         (           1970         11         0         0         25           869         9         0         0         25           2145         1         385         385         25           746         1         0         0         25	Operator	<b>Operating Frequency</b>	Number of Trans.	ERP Per Trans.	Total	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
1970     11     0     0     25       869     9     0     0     25       2145     1     385     385     25       746     1     0     0     25		(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
869         9         0         0         25           2145         1         385         385         25           746         1         0         0         25	PCS	1970	11	0	0	25	0.000.0	1.0	%00'0
2145     1     385     385     25       746     1     0     0     25	Sellular	869	o	0	0	25	0.000	0.57933333	%00'0
746 1 0 0 0 25	AWS	2145	1	385	385	25	0.2215	1.0	22.15%
2 2 2	7 700	746	1	0	0	25	0.0000	0.497333333	%00.0

**Fotal Percentage of Maximum Permissible Exposure** 

22.15%

\*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/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case maximum values used.

# **ATTACHMENT 6**

```
OLD_LYME_SC_5_CT.txt
*****************
           Federal Airways & Airspace
       Summary Report: Existing Structure
                                             30
* Antenna Structure *
*********************************
Airspace User: Your Name
File: OLD_LYME_SC_5_CT
Location: Fenwick, CT
```

Longitude: 72°-16'-37.97" Latitude: 41°-17'-04.68"

SITE ELEVATION AMSL.....8 ft. STRUCTURE HEIGHT......26 ft. OVERALL HEIGHT AMSL.....34 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) NNR FAR 77.9 IFR Straight-In Notice Criteria for GON FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for OB8 FAR 77.9: 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.

The location and analysis were based upon an existing structure. However, no existing aeronautical study number was identified. If the 'existing' structure penetrates an obstruction surface defined by CFR 77.17, 77.19, 77.21 or 77.23 (see below) it is strongly recommended the FAA be notified of the 'existing' structure to determine obstruction marking or lighting requirements. It is not uncommon for the FAA to issue a Determination of No Hazard (DNH) for an existing structure and modify the airspace to accommodate the structure, should that be required. If the FAA issues a DNH enter the aeronautical study number (ASN) in the space provided on the Airspace Analysis Window Form and re-run Airspace.

The below analysis reflects the aeronautical conditions that exist as of the date stamped on this analysis.

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: GON: GROTON-NEW LONDON Type: A RD: 64081.45 RE: 8.7

DNE FAR 77.17(a)(1):

Page 1

OLD\_LYME\_SC\_5\_CT.txt DNE - Greater Than 5.99 NM. FAR 77.17(a)(2): VFR Horizontal Surface: DNE DNE VFR Conical Surface: DNE VFR Approach Slope: VFR Transitional Slope: DNE VFR TRAFFIC PATTERN AIRSPACE FOR: 0B8: ELIZABETH FIELD Type: A RD: 67167.29 RE: 7 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 1500 ft AMSL PRIVATE LANDING FACILITIES RANGE DELTA ARP FAA BEARING **FACIL** IN NM ELEVATION IFR To FACIL IDENT TYP NAME +4 1.36 320.99 5CT7 AIR MILE CREEK DNE Horizontal Surface. Check Runway Approach Surface. Within 1 NM. No Impact to Private Landing Facility. DNE 200 ft AGL within 3 NM of Airport. +34 318.73 5.33 CT78 SEA LORD CREEK No Impact to VFR Transitional Surface. Below surface height of 433 ft above ARP. AIR NAVIGATION ELECTRONIC FACILITIES **GRND** DIST DELTA ST FAC **APCH ANGLE** AT FREQ VECTOR (ft) ELEVA ST LOCATION IDNT TYPE **BEAR** .02 +25 CT GROTON 110.8 74.85 64092 R GON VOR/DME -.09 -186 CT MADISON 110.4 275.47 114519 VOR/DME R MAD -.13110.0 37.49 124955 -276 CT NORWICH ORW VOR/DME Ι .01 +12 NY HAMPTON 113.6 184.66 133672 **VORTAC** Ι HTO -.31 -815 CT HARTFORD 114.9 330.4 149513 VOR/DME R HFD .01 +28 CT NEW HAVEN 109.8 267.01 167321 VOR/DME R

1326.9 217.26 186157

117.2 227.85 193383

117.8 102.72 197549

210.88 189934

Page 2

-317 NY RIVERHEAD

-16 NY SUFFOLK CO

-51 NY CALVERTON

-66 RI SANDY POINT

-.1

0.00

-.02

-.02

HVN

QVH

FOK

RADAR ARSR

TACAN

CCC VOR/DME

SEY VOR/DME

Υ

R

R

NA

#### OLD\_LYME\_SC\_5\_CT.txt

KOKX RADAR WXL Y

226.46 222442 -161 NY NEW YORK

-.04

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: WLIS @ 10460 meters.

Airspace® Summary Version 17.1.429

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01-31-2017 14:40:14

## **ATTACHMENT 7**

### Robinson - Cole

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 6, 2017

#### Via Certificate of Mailing

Bonnie Reemsnyder, First Selectwoman Town of Old Lyme 52 Lyme Street Old Lyme, CT 06371

Re: Proposed Installation of a Wireless Telecommunications Facility at The Pavilion, 85 Swan Avenue, Old Lyme, Connecticut

Dear Ms. Reemsnyder:

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 The Pavilion, 85 Swan Avenue in Old Lyme (the "Property"). The facility will consist of a tower/mast attached to the building and supporting a canister antenna. The top of the antenna would extend to a height of approximately 25'-11" above grade, approximately 7'-6" above the top of the roof. Equipment associated with the antenna will be attached to the northerly façade of the building, and will be screened by an 8-foot fenced enclosure, painted to match the building.

A full copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16008073-v1

## Robinson + Cole

Bonnie Reemsnyder, First Selectwoman February 6, 2017 Page 2

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

Sincerely,

Kenneth C. Baldwin

Attachment

### Robinson + Cole

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 6,2017

#### Via Certificate of Mailing

Long Island Sound Properties LLC 80 Bannan Lane Berlin, CT 06037

Re: Proposed Installation of a Wireless Telecommunications Facility at The Pavilion, 85 Swan Avenue, Old Lyme, Connecticut

Dear Sir or Madam:

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 The Pavilion, 85 Swan Avenue in Old Lyme (the "Property"). The facility will consist of a tower/mast attached to the building and supporting a canister antenna. The top of the antenna would extend to a height of approximately 25'-11" above grade, approximately 7'-6" above the top of the roof. Equipment associated with the antenna will be attached to the northerly façade of the building, and will be screened by an 8-foot fenced enclosure, painted to match the building.

A full copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16008090-v1

## Robinson + Cole

Long Island Sound Properties LLC February 6, 2017 Page 2

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

Sincerely,

Kenneth C. Baldwin

Attachment

# **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

February 6, 2017

#### Via Certificate of Mailing

«Name and Address»

Re: Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a Wireless Telecommunications Facility at The Pavillion, 85 Swan Avenue, Old Lyme, 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 The Pavilion, 85 Swan Avenue in Old Lyme (the "Property"). The facility will consist of a tower/mast attached to the building and supporting a canister antenna. The top of the antenna would extend to a height of approximately 25'-11" above grade, approximately 7'-6" above the top of the roof. Equipment associated with the antenna will be attached to the northerly façade of the building, and will be screened by an 8-foot fenced enclosure, painted to match the building. A copy of Cellco's Petition is attached for your review.

This notice is being sent to you because you are listed on the Town Assessor's records 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.

February 6, 2017 Page 2

Sincerely,

Kenneth C. Baldwin

Attachment

#### CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

#### ABUTTING PROPERTY OWNERS

## 85 SWAN AVENUE OLD LYME, CONNECTICUT

	Property Address	Owner's and Mailing Address
1,	81 Swan Avenue	Thomas P. and Karen M. Fallow 12 Winterwood Terrace Farmington, CT 06032
2.	84 Swan Avenue	Margaret A. Serapilia and Timothy J. and Jamie Lynn Stokes 84 Swan Avenue Old Lyme, CT 06371
3.	92-1 Hartford Avenue	Long Island Properties LLC 80 Bannan Lane Berlin, CT 06037
4.	88 Hartford Avenue	Sound View Property Management LLC 30 East Main Street Avon, CT 06011
5.	86 Hartford Avenue	Long Island Properties LLC 80 Bannan Lane Berlin, CT 06037
6.	88 Swan Avenue	Paula Darcy 6308 Abilene Trail Austin, TX 78749
7.	88-1 Swan Avenue	Marilyn A. and Paul Fanelli, Jr. 25 Old Wolcott Road Bristol, CT 06010
8.	88-2 Swan Avenue	James and Stephanie Livesey 88-2 Swan Avenue Old Lyme, CT 06371
9.	90A Swan Avenue	Karen A. Camp 29 Worthington Drive Farmington, CT 06032

	Property Address	Owner's and Mailing Address
10.	90B Swan Avenue	Christine Kiss 3 Nauset Lane Unionville, CT 06085
11.	Old Colony Road	Old Colony Beach Association P.O. Box 10 Old Lyme, CT 06371
12.	84 Hartford Avenue	Christine and Paul Orzel 84 Hartford Avenue Old Lyme, CT 06371