

15 Chestnut Street, 4th Floor
Worcester, MA 01609

Paula Foley
Network Real Estate / Regulatory

RECEIVED

MAY 19 2022

TOWN OF WESTWOOD
OFFICE OF SELECT BOARD

May 19, 2022

Town of Westwood
Select Board
Town Hall
580 High Street
Westwood, MA 02090

Re: Petition of Cellco Partnership d/b/a Verizon Wireless ("Verizon") for
Pole Attachment of Small Cell Communications Equipment:
WESTWOOD_SC19_MA, 793 High Street, Pole # 19/85

Dear Honorable Members of the Select Board:

Enclosed please find a Petition to the Honorable Westwood Select Board for permission to attach, maintain and operate small cell communications equipment on a utility pole located in the public right-of-way (the "Petition"). The proposed small cell equipment installation included with this petition is to be located on a utility pole near the property with an address of 793 High Street.

Verizon's radio frequency engineers targeted the proposed location due to the high traffic and data demands on Verizon's network in the area. Verizon's existing macro and small cell sites are not providing adequate data capacity in this location due to population, vehicular and foot traffic, multiple wireless devices being used simultaneously and other contributing factors. This small cell site will work to offload the demand of the macro sites and will allow for increased data capacity and speed within the vicinity of the proposed small cell location.

The small cell equipment will be installed using standard commercially acceptable methods in accordance with all applicable federal, state and local laws and regulations. The proposed attachment is to a utility pole owned by Eversource. Verizon has entered into a pole attachment agreement with Eversource and is licensed to attach its wireless facilities to the pole.

As shown on the attached detailed plans, the small cell installation on the utility pole will include fiber optic cables, an unobtrusive side-mount antenna measuring 35.4" in height and 14" in diameter; a remote radio head unit, conduits and cable protectors, and an electric meter with a shut-off switch. The attached plans show the proposed location, pole height, mounting height, equipment specifications and utility plan.

Without this installation, Verizon would be unable to provide specifically established coverage and capacity objectives. The utility pole is located within the limited

verizon[✓]

geographic area where Verizon's radio frequency engineers determined that a wireless facility is required.

The Telecommunications Act of 1996

The Telecommunications Act of 1996 (the "Act") imposes restrictions affecting the standard for granting the requested relief, specifically (1) no laws or actions by any local government or planning or zoning board may prohibit, or have the effect of prohibiting, the placement, construction, or modification of communications towers, antennas or other wireless facilities in any particular geographic area, see 47 USC § 332(c)(7)(B)(i); (2) local government or planning or zoning boards may not unreasonably discriminate among providers of functionally equivalent service, see 47 USC § 332(c)(7)(B)(i); (3) health concerns may not be considered so long as emissions comply with the applicable standards of the FCC, see 47 USC § 332(c)(7)(B)(iv); and (4) decisions must be rendered within a reasonable period of time, see 47 USC § 332(c)(7)(B)(ii). The presumptively reasonable period of time established by the FCC in this instance is 60 days from the submission of a complete Petition, see 47 CFR § 1.6003(c)(1)(i).

Accordingly, under Massachusetts General Laws Chapter 166, Sections 21, 22, 25A, and the above mentioned federal provisions, Verizon respectfully requests that the Westwood Select Board issue a Grant of Location Order to install and operate fixtures as specified herein.

Verizon respectfully requests that the Petition be added to the Select Board agenda.

In accordance with the filing requirements, please find the following:

1. Petition for Pole Attachment;
2. Site Drawing;
3. Proposed Order;
4. Pole Attachment License issued to Verizon from Eversource;
5. RF Affidavit; and
6. EME Compliance Letter

Verizon looks forward to presenting this Petition to the Westwood Select Board. Should you require any additional information, please don't hesitate to contact me. Thank you very much.

Very truly yours,

Paula Foley

Paula Foley
Network Real Estate / Regulatory
M: 508.269.0172
Paula.foley@verizonwireless.com

cc: Nora W. Loughnane, Director
Department of Community and Economic Development

PETITION FOR SMALL CELL POLE ATTACHMENT

To the Select Board of the Town of Westwood, Massachusetts

Cellco Partnership d/b/a Verizon Wireless hereby provides a petition to this Honorable Board for the location of a small cell wireless antenna, and the necessary sustaining and protecting fixtures, on a utility pole in Westwood, Massachusetts, as more particularly shown on the plans included herewith.

Pole Location

Pole Location: 793 High Street - Utility Pole Number: 19/85

Proposed Equipment: Antenna, Remote Radio Heads, AC/DC Converter, associated wires, cables, meter and fiber demark box on a utility pole as shown on the attached Plans titled WESTWOOD_SC19_MA prepared by Chappell Engineering Associates, LLC with a date of 2/1/22

Purpose: To address network coverage and capacity in the immediate area of the subject pole. Offload wireless traffic from macro sites and designed to increase throughput to customers in proximity to the pole.

Respectfully submitted,

PETITIONER:

Cellco Partnership d/b/a Verizon Wireless

Paula Foley

Paula Foley
Network Real Estate / Regulatory
15 Chestnut Street, 4th Floor
Worcester, MA 01609
M: 508.269.0172
Paula.foley@verizonwireless.com

SEAL:

ENGINEER/AND SURVEYOR DATE
 DRAWING SCALE: NONE
 THIS DRAWING HAS BEEN PREPARED BY THE ARCHITECT/ENGINEER, CHAPPELL ENGINEERING ASSOCIATES, LLC, AND THE SURVEYOR, P.K. EXCOURSE. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS STATE BOARD OF REGISTERED PROFESSIONAL ENGINEERS AND SURVEYORS. THIS DRAWING IS A PORTION OF A JOB FOR ANY PERSON, FIRM OR CORPORATION, AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF A LICENSED PROFESSIONAL ENGINEER, SURVEYOR OR ARCHITECT TO ALTER THIS DOCUMENT.

REVISIONS	
NO.	DESCRIPTION
0	ISSUED FOR REVIEW

SITE NAME:
WESTWOOD_SC19_MA
 UTILITY POLE #19/85
 793 HIGH STREET (MA ROUTE 109)
 WESTWOOD, MA 02090

DRAWING TITLE:
**LOCATION PLAN/
 AERIAL IMAGE**

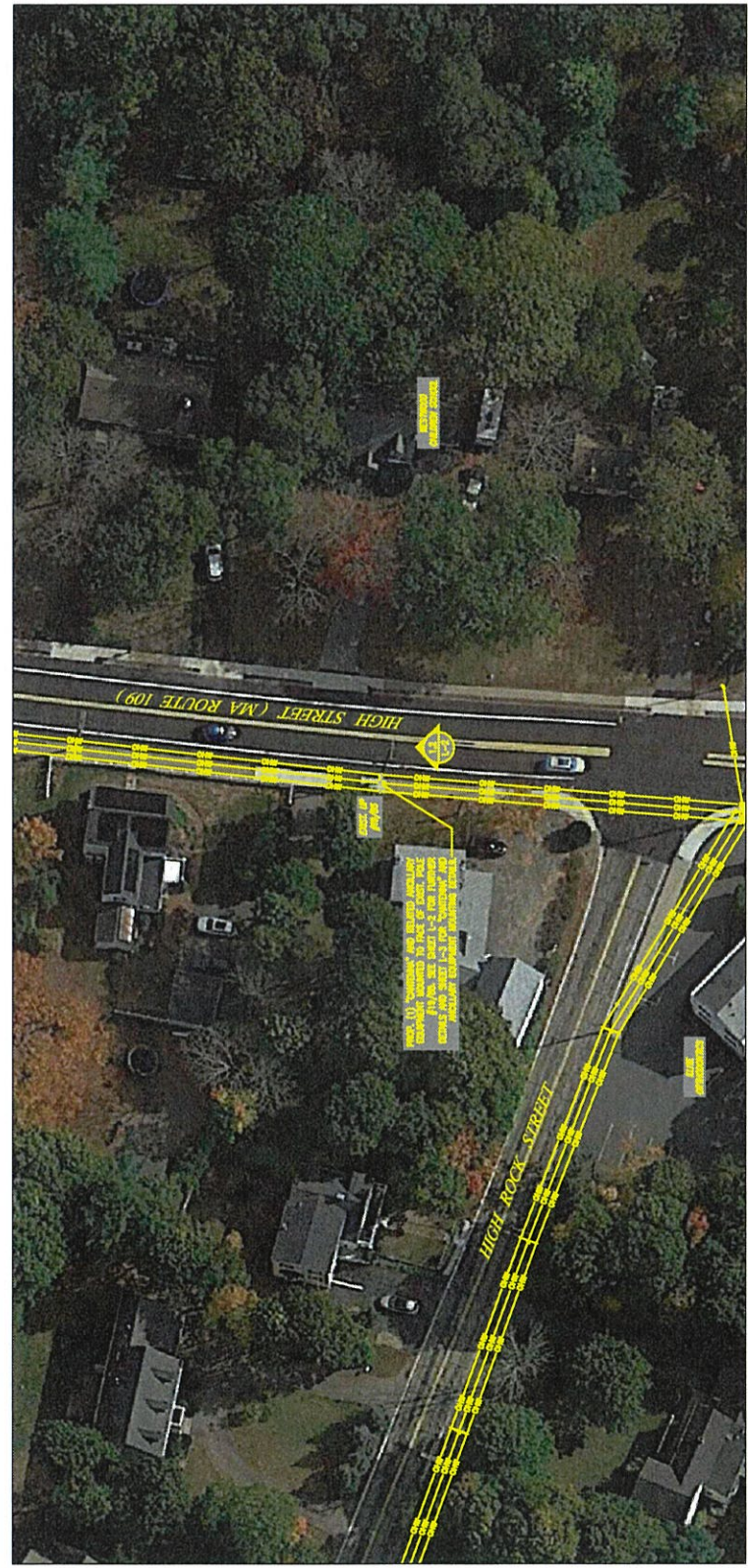
DRAWING NO.:
L-1

DATE REVISED		
DATE	DESCRIPTION	BY

SITE: WESTWOOD_SC19_MA

UTILITY POLE #19/85
 793 HIGH STREET (MA ROUTE 109)
 WESTWOOD, MA 02090

PROJECT TYPE: SMALL CELL WIRELESS TELECOMMUNICATIONS
 INSTALLATION ON EXISTING WOOD UTILITY POLE



SHEET INDEX

DWG.	DESCRIPTION	REV.
L-1	LOCATION PLAN/AERIAL IMAGE	0
L-2	UTILITY POLE PHOTOGRAPH AND ELEVATION	0
L-3	ANTENNA & ANCILLARY EQUIPMENT ORIENTATION PLANS AND MOUNTING DETAILS	0
L-4	ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE LINE DIAGRAM	0

SITE CENTER POINT:
 CENTER OF EXISTING UTILITY POLE #19/85
 N 42,221,425' (42°-13'-17.13")
 W 71,222,481' (71°-13'-24.48")
 APPROXIMATE GROUND ELEVATION = 226 ± ANGL.
 PER GOOGLE EARTH





CHAPPELL ENGINEERING ASSOCIATES, LLC
Civil-Structural-Land Surveying
R.K. ESCOFFIER, ESQ., P.E.
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappell-engineering.com

CLIENT:
WESTWOOD, SC19_MA
UTILITY POLE #19/85
750 HIGH STREET (MA ROUTE 109)
WESTWOOD, MA 02060

ENGINEER/LAND SURVEYOR DATE
R.K. ESCOFFIER, ESQ., P.E. 3/7/22

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	3/7/22

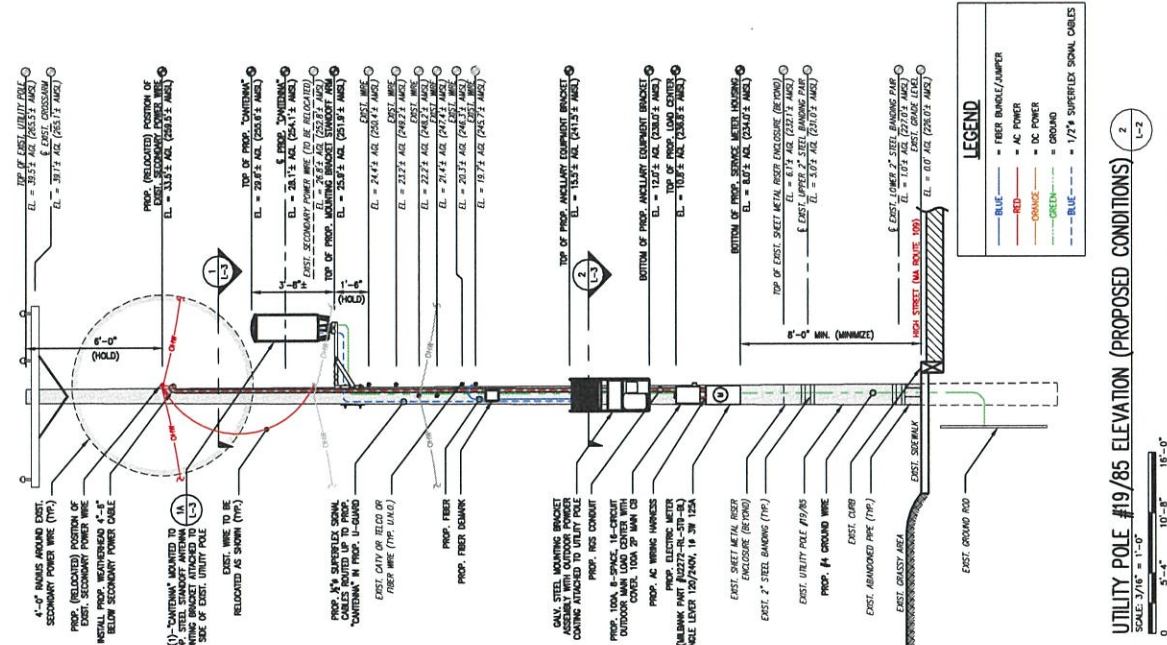
SITE NAME:
WESTWOOD, SC19_MA
UTILITY POLE #19/85
750 HIGH STREET (MA ROUTE 109)
WESTWOOD, MA 02060

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO.:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

DATE	BY	DATE
3/7/22	R.K. ESCOFFIER, ESQ., P.E.	3/7/22



GENERAL NOTES:
1. THESE DRAWINGS ARE DIAGNOSTIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND CHARACTERISTICS OF THE EXISTING UTILITY POLE AND THE PROPOSED RECOMMENDATIONS FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PLASTIC BAGS ON EXISTING UTILITY POLE AND ANCHILARY EQUIPMENT TO PROTECT EQUIPMENT FROM WEATHER AND CONTACT INFORMATION TO BE UTILIZED IN THE CASE OF EMERGENCY.
3. AN ANALYSIS OF THE CAPACITY OF THE EXISTING UTILITY POLE TO SUPPORT THE PROPOSED LOADING HAS NOT BEEN COMPLETED BY CHAPPELL ENGINEERING ASSOCIATES, LLC AND THIS, THESE DRAWINGS ARE SUBJECT TO CHANGE PENDING THE OUTCOME OF A STRUCTURAL ANALYSIS (TO BE PERFORMED BY OTHERS).
4. VERIZON WIRELESS' GENERAL CONTRACTOR SHALL EXTEND EFFORTS TO ENSURE THAT ALL PROPOSED EQUIPMENT MEETS THE REQUIREMENTS OF THE NATIONAL ELECTRICAL SAFETY CODE AND ALL APPLICABLE LOCAL BUILDING CODE REQUIREMENTS.

INTERNAL AND MOUNTING INFO:
ANTENNA MOUNT/PACKET IN VERIZON WIRELESS' PROPERTY. THE ANTENNA MOUNT/PACKET SHALL BE INSTALLED WITH THE EXISTING UTILITY POLE AND SHALL BE INSTALLED IN ACCORDANCE WITH THE VERIZON WIRELESS' INSTALLATION MANUAL. THE ANTENNA MOUNT/PACKET SHALL BE INSTALLED IN ACCORDANCE WITH THE VERIZON WIRELESS' INSTALLATION MANUAL. THE ANTENNA MOUNT/PACKET SHALL BE INSTALLED IN ACCORDANCE WITH THE VERIZON WIRELESS' INSTALLATION MANUAL.

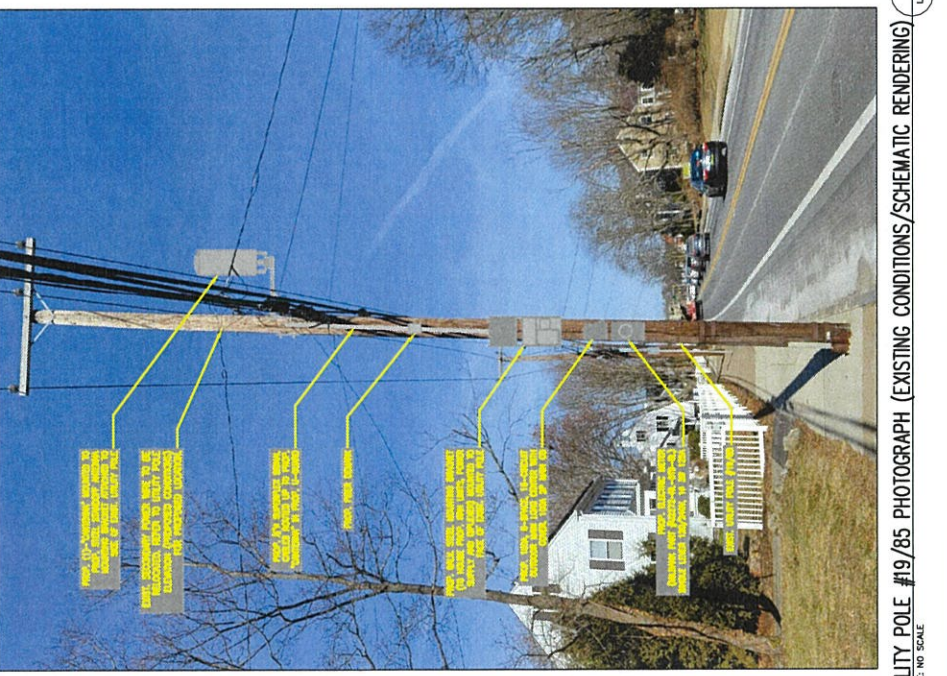
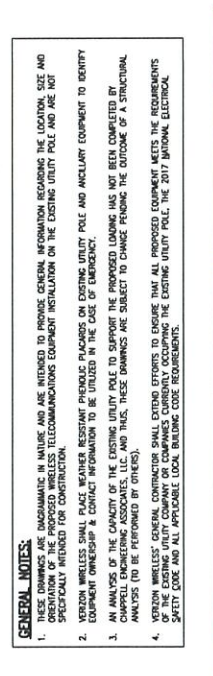
CONCRETE AND MOUNTING INFO:
CONCRETE AND MOUNTING INFO. THE CONCRETE AND MOUNTING INFO SHALL BE INSTALLED IN ACCORDANCE WITH THE VERIZON WIRELESS' INSTALLATION MANUAL. THE CONCRETE AND MOUNTING INFO SHALL BE INSTALLED IN ACCORDANCE WITH THE VERIZON WIRELESS' INSTALLATION MANUAL. THE CONCRETE AND MOUNTING INFO SHALL BE INSTALLED IN ACCORDANCE WITH THE VERIZON WIRELESS' INSTALLATION MANUAL.

MOUNTING AND MOUNTING INFO:
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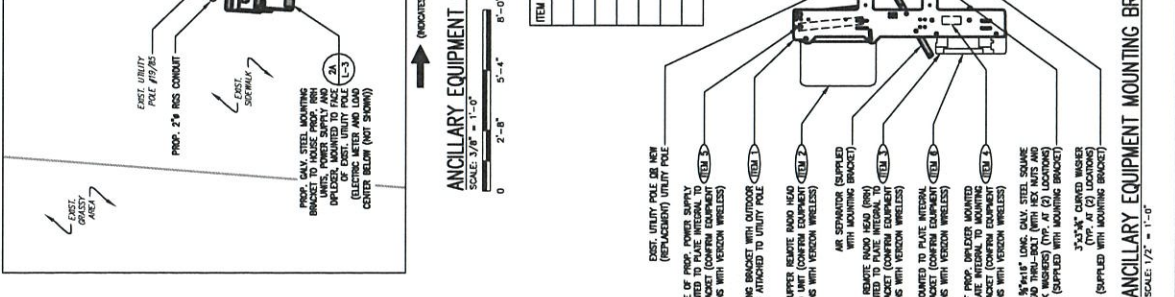
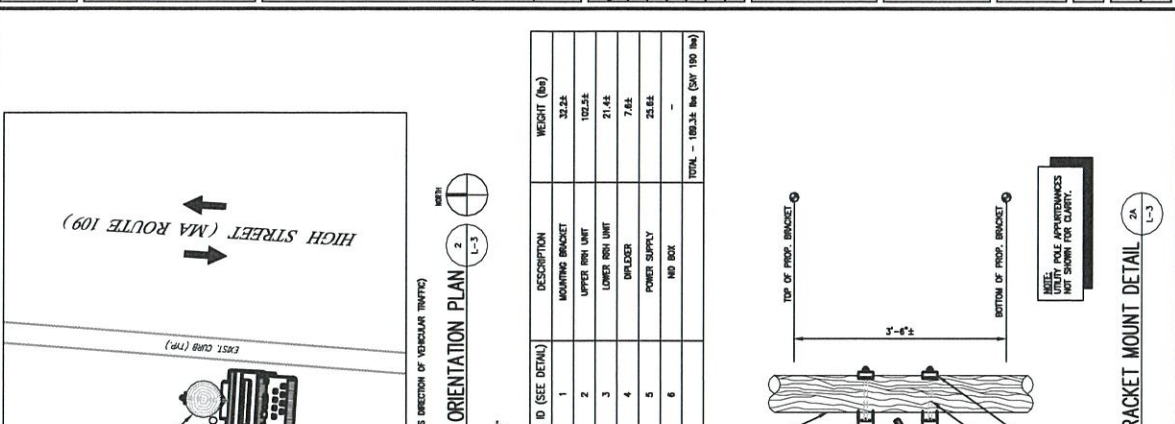
UTILITY POLE EXIST. APPURTENANCES AND DETAILS OF PROP. INSTALLATION SHOWN SCHEMATICALLY.

LEGEND:
- BLUE - FEEDER BUNDLE/JUMPER
- RED - AC POWER
- ORANGE - DC POWER
- GREEN - GROUND
- DASHED - 17\"/>

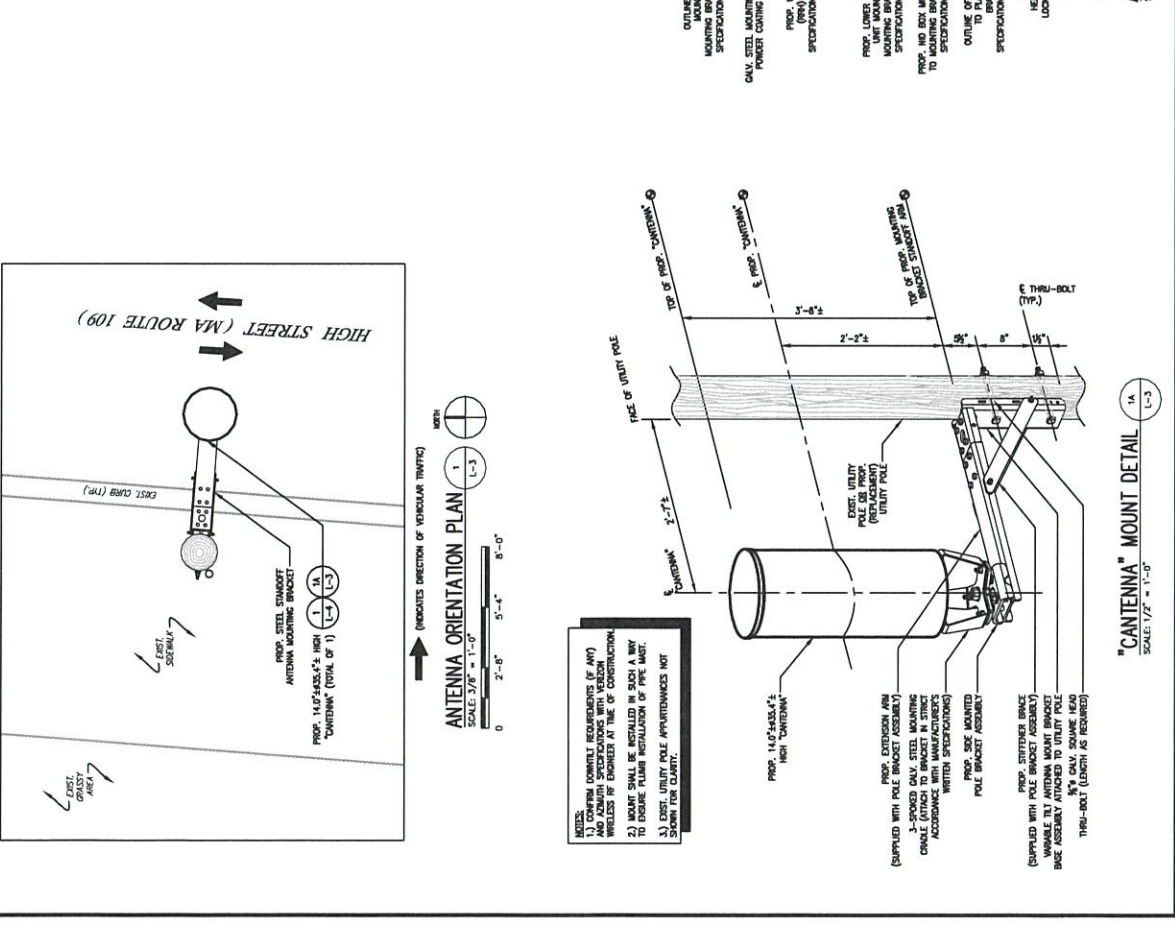
UTILITY POLE #19/85 ELEVATION (PROPOSED CONDITIONS)
SCALE: 3/16\"/>



UTILITY POLE #19/85 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)
SCALE: 1/8\"/>



ITEM ID (SEE DETAIL)	DESCRIPTION	WEIGHT (lbs)
1	MOUNTING BRACKET	32.22
2	UPPER IRON UNIT	192.24
3	LOWER IRON UNIT	21.44
4	BREAKER	7.62
5	POWER SUPPLY	25.82
6	NO BOX	-
TOTAL - (800.34 lbs (CWF 100 lbs))		



NOTES:
 1) CONFIRM DOWNLIFT REQUIREMENTS (IF ANY) AND ASSUMED SPECIFICATIONS WITH VECON AND INSTALLER. VERIFY ALL REQUIREMENTS AND SPECIFICATIONS WITH VECON AND INSTALLER.
 2) MOUNT SHALL BE INSTALLED IN SUCH A MANNER AS TO MEET ALL REQUIREMENTS OF THE UTILITY POLE APPROPRIATE TO THE STATION CLARITY.
 3) VERIFY ALL REQUIREMENTS OF THE UTILITY POLE APPROPRIATE TO THE STATION CLARITY.



CHAPPELL ENGINEERING ASSOCIATES, LLC
Civil Structural Land Surveying
R.K. ESCOFFIER, CSURE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com

CLIENT: **verizon**
PROJECT NO.: 140339
DATE: 1/27/22
DRAWING NO.: 2/1/22

ENGINEER/AND SURVEYOR: [Signature]
DATE: [Signature]

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	2/1/22

SITE NAME:
WESTWOOD_SC19_MA
UTILITY POLE # 19B85
789 HIGH STREET (MA ROUTE 109)
WESTWOOD, MA 02090

DRAWING TITLE:
ANTENNA & ANCILLARY EQUIPMENT SPECIFICATIONS AND ONE LINE DIAGRAM

DRAWING NO.: **L-4**

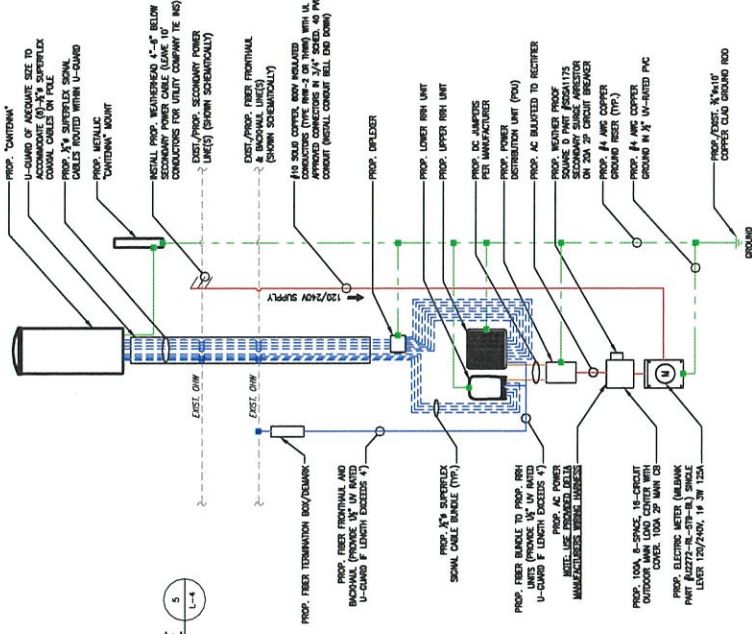
LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	PROJECT NO.:	DATE:
AS SHOWN	140339	1/27/22
CITY PROJECT NO.:	DATE:	SCALE:
140339	1/27/22	2/1/22

PANEL SCHEDULE
14, 3W, 100A 120/240V AC POWER TRANSFER LOAD CENTER IN NEMA 3R ENCLOSURE

AMP	DESCRIPTION
100	MAIN BREAKER
20	SURGE ARRESTOR
20	POWER DISTRIBUTION UNIT
8	BLANK
7	BLANK
6	BLANK
5	BLANK
4	BLANK
3	BLANK
2	BLANK
1	BLANK

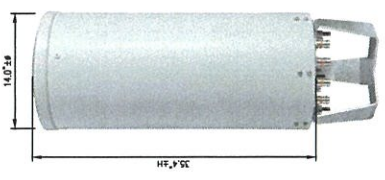
ELECTRICAL LOAD CENTER PANEL SCHEDULE
SCALE: NOT APPLICABLE



FIBER/ELECTRICAL ONE-LINE DIAGRAM
SCALE: N.T.S.

LEGEND
- BLUE - FIBER BUNDLE/JUMPER
- RED - AC POWER
- ORANGE - DC POWER
- GREEN - GROUND
- DASHED BLUE - 1/2" SUPERFLEX SIGNAL CABLES

ONE-LINE DIAGRAM NOTES:
1) PROVIDE WEATHER TIGHT SEAL CONNECTIONS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOODING.
2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING WITH THE ELECTRICAL ENGINEER AND ELECTRIC COMPANY.

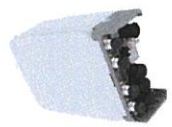


SMALL CELL "CANTENNA"
DIMENSIONS: 14.0" H x 35.4" W
WEIGHT: 17.5 LBS
QUANTITY: TOTAL OF 1

TYPICAL "CANTENNA" SPECIFICATIONS
SCALE: N.T.S.

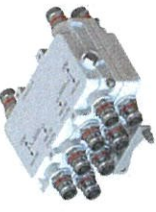


REMOTE RADIO HEAD UNIT
DIMENSIONS: 17.3" H x 17.3" W x 11.5" D
WEIGHT: 102.2 LBS
QUANTITY: TOTAL OF 1



REMOTE RADIO HEAD UNIT
DIMENSIONS: 13.9" H x 9.8" W x 4.8" D
WEIGHT: 21.4 LBS
QUANTITY: TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS
SCALE: N.T.S.



DIPLEXER
DIMENSIONS: 4.8" H x 7.9" W x 3.3" D
WEIGHT: 7.8 LBS
QUANTITY: TOTAL OF 1

TYPICAL DIPLEXER DIMENSIONS
SCALE: N.T.S.



NID BOX
DIMENSIONS: 3.7" H x 7.7" W x 4.7" D
WEIGHT: N/A
QUANTITY: TOTAL OF 1

TYPICAL NID BOX DIMENSIONS
SCALE: N.T.S.

ORDER FOR GRANT OF LOCATION

UNDER MGL c. 166, §§ 22 and 25A

By the Select Board of the Town of Westwood, Massachusetts

Notice having been given and public hearing held, as provided by law,

IT IS HEREBY ORDERED:

That Cellco Partnership d/b/a Verizon Wireless (“Verizon”) be and is hereby granted a location for and permission to install and maintain telecommunications wires and wireless attachments and appurtenances, including fiber optic cable, remote nodes and pole-top antenna, to be attached to an existing Eversource / Verizon utility pole located in the Public Right of Way within the Town of Westwood, as substantially shown on the plans filed with said Petition for WESTWOOD_SC19_MA.

The foregoing permission is subject to the following conditions:

See Plans filed with this order.

There may be attached to said pole:

- Antenna;
- Remote Radio Head(s);
- Mounting Brackets;
- Overhead Wires;
- Conduit;
- Cable;
- Diplexer;
- Meter;
- Converter;
- Disconnect; and
- Each sustaining and protecting fixtures as it may find necessary.

I hereby certify that the foregoing was adopted at a meeting of the Select Board of the Town of Westwood, Massachusetts, held on the _____ day of _____, 2022.

Clerk of Select Board

We hereby certify that on _____, 2022, at _____ o'clock __M., at Westwood, Massachusetts, a public hearing was held on the petition of Celco Partnership d/b/a Verizon Wireless for permission to install a small cell wireless antenna, and the necessary sustaining and protecting fixtures on utility pole #19/85 described in the order herewith recorded, and that we mailed written notice of the time and place of said hearing to each of the owners of real estate (as determined by the last preceding assessment for taxation) along the way or parts of ways upon which said Company is permitted to install a small cell wireless antenna, and the necessary sustaining and protecting fixtures on utility pole #19/85 under said order and that thereupon said order was duly adopted.

Select Board of the Town of Westwood,
Massachusetts:

CERTIFICATE

I hereby certify that the foregoing is a true copy of a location order, and certificate of hearing with notice adopted by the Select Board of the Town of Westwood, Massachusetts, on the ____ day of _____, 2022 and recorded with the records of location orders of said Town, Book _____, Page _____.

This certified copy is made under the provisions of Chapter 166 of the General Laws and any additions thereto or amendments thereof.

Attest:

Town Clerk

APPLICATION AND POLE ATTACHMENT LICENSE

ANTENNA / NODE LICENSE

Licensee VERIZON WIRELESS
Street Address ONE VERIZON WAY, MAIL STOP 4AW100
City, State and Zip BASKING, RIDGE NEW JERSEY 07920
Date 2/11/22

In accordance with the terms and conditions of the **CONSTRUCTION REQUIREMENTS FOR DISTRIBUTED ANTENNA SYSTEMS (DAS) ON DISTRIBUTION POLES AGREEMENT**, application is hereby made for a license to make 1 Antenna (Node) Attachment to pole and 1 Power Supply and 2 other attachments located in the municipality of Westwood in the State of Massachusetts.

This request will be designated **Pole Attachment License Application Number** WESTWOODSC19MA-2560108 **Attached are my power supply specifications if applicable. The cable's strand size is 0.5 and weight per foot of cable is 0.2.**

Licensee's Name (Print) Derek Maheux

Derek Maheux

Signature

NSTAR d/b/a EVERSOURCE

Power Company

Title _____

Tel. No. _____

Fax No. _____

E-mail _____

*******For licensor use, do not write below this line*******

Pole Attachment License Application Number _____ is hereby granted to make 1 Antenna / Node attachment described in this application to 1 attachments to JO¹ pole _____ attachment to FO² pole, _____ attachment to JU³ pole, _____ Power Supplies and _____ other attachments located in the municipality of _____, in the State of Massachusetts as indicated on the attached Form 3.

Licensor's Name (Print) Richard A. Comeau

Signature Richard A. Comeau

(AGREEMENT ID #)

Title Manager – Distribution Engineering, Single Pole Administration

Date 5/2/2022

Tel. No. _____

The Licensee shall submit an original copy of this application to NSTAR Electric Company d/b/a EVERSOURCE ENERGY.

AUTHORIZATION FOR FIELD SURVEY WORK

Licensee: Verizon Wireless

In accordance with Article III & Appendix I of the Pole Attachment Agreement, following is a summary of the charges which will apply to complete a field survey covering Pole Attachment License Application Number WESTWOODSC19MA-2560108 in the municipality of Westwood in the State of Massachusetts.

FIELD SURVEY CHARGES

<u>Field Survey</u>	<u>#Poles</u>	<u>Unit Rate</u>	<u>Total</u>
Field Survey Application Fee (includes 1st pole)	1 pole	\$139.00	\$ 139.00
Field Survey 2 -200 Poles	_____	\$ <u>13.45</u> per Pole	\$ _____
Additional Travel Time*	_____	\$ <u>200.00</u> per Day	\$ _____
TOTAL Charges			\$ \$139.00

* Based on average of 75 poles surveyed per day, add \$200.00 travel time for each additional day required to complete survey.

Please note, if you calculated the cost incorrectly, your check will be returned and a new check for the correct amount must be received by this office in order to schedule the survey. If you need assistance, please call the **HOTLINE** on 800-340-9822. The required field survey covering Pole Attachment License Application # WESTWOODSC19MA-2560108 is authorized. I am enclosing an advance payment in the amount of \$ 139.00.

Licensee's Name (Print) Derek Maheux

Signature *Derek Maheux*

Title Site Acquisition

Address 750 West Center St, Suite 301
W.Bridgewater, MA 02379

Tel. No. 508-649-2307

Date 2/11/22

FORM 3 Definitions

SURVEYORS: Name of Representative attending Survey from VERIZON, EVERSOURCE, and Licensee

Date of Survey : Date Survey is performed

CWO#: EVERSOURCE Custom Work Order Number

Munic: Municipality where pole is located **State:** State in which pole is located

Licensee Name: Name of Company or Entity applying for Pole Attachments

Exch Code: Verizon's Exchange Code = the Exchange in which the Municipality is located.

Munic Code: EVERSOURCE Municipality Code = the code for the Municipality in which the pole is located (tax purposes).

Application #: The number of the Licensee's Application = sequentially numbered by municipality.

ELCO NAME: The name of the Electric (power) Company in whose service area the pole is located.

Location: List each individual pole (ONE POLE PER LINE) you wish to attach to (multiple sheets may be used) and provide the following:

Street, Route, Circuit # and other information which indicates location of poles.
Indicate location by providing name of street, highway, route, etc., e.g., South Street, north of (N/O) Jones Road. Private Property Poles should be identified as such e.g., P.P. (Lead off pole 1234 South).

Pole #:
Tel = Telephone Company pole # El= Electric Company pole #

ATT: **Type of Attachment:** F = Fiber C= Copper or Coaxial P.S. = Power Supply Riser = Riser Pole

Ownership: **JO** = Joint Owned 50%-50% Tel-Elco, **JU** = Joint Use - 100% Tel or 100% Elco, **FO** = 100% Fully owned by Tel or Elco (Other company not on pole)

Charge: **Y** or **N** = **Y** = Yes, there are make ready charges, **N** = No, there are no make ready charges to the Applicant.

Work Description: Short description of work operations required.

Task # should also be included and is defined as the number of the task or tasks required for make ready work. The Task # is associated with a Unit Price from the "Make Ready Unit Price Schedule" located in Appendix 1 of the new Pole Attachment Agreement.

• ***Licensee to complete bold italicized areas only. (Provide ownership information if known)***

EVERSOURCE - Work Order Application

FOR KEN KENDRICK:

Customer Request In-Service Date: 5/12/22 **WO Received Date:** _____

Service Address: Street: 793 High Street (MA Route 109) Suite: _____ Town Westwood Zip: 02090

Customer Of Record:

Customer Responsible for Payment of Monthly Electric Bills

Name to appear on Monthly Bill: Cellco Partnership
 DBA – C/O Name: Verizon Wireless
 Billing Address: P.O.Box 2375, Spokane, WA 99210-2375
 Telephone 866-322-4547 Tax ID Number: 22-3372889
 Existing Account or Meter Number (if applicable): _____

Property Owner Name (if different from above): _____

Owner Address: _____
 Owner Phone Number: _____

Party Responsible for Construction costs associated with work order (if different from above)

Name: Verizon Wireless
 Address: 118 Flanders Road, 3rd Floor, Westborough, MA 01581
 Phone Number: 508- 320-2017

Please Note that Articles of Incorporation are required for new commercial EVERSOURCE Customers

Type of Service Requested: (Circle Appropriate)

X New Service Service Upgrade Service Relocation Temporary Service
 Pole Relocation Disconnect/Reconnect Service Removal Metering Only
 OH Service from Pole, Pole# : _____ UG Service from; Riser-Pole # : _____ Padmount # : _____

Customer Loading

Brief Description of Work

Type of Load	New Connected Load in KVA	
	Single Phase	Three Phase
Lighting		
Electric heat		
Air Conditioning		
Refrigeration		
Cooking		
Electric Dryer		
Water Heater		
Computer		
Process Equip.	14.4	
Motors/Elevators		
Miscellaneous		
Totals	14.4	

Attach (1) antenna. (1) meter to the pole. Will require 60 amp single phase service.

Number of Meters Required:

Residential: _____ Commercial: **1** Public: _____
 Main Switch Voltage: _____ Amperage: _____ Phase: _____
 Service Voltage: _____ Amperage: _____ Phase: _____
 Facility Type (ie: school, hospital): _____ Telecommunications New Building Square Feet: _____

ALL 480V SERVICES REQUIRE COLD SEQUENCE METERING (DISCONNECT SWITCH ON THE LINE SIDE OF THE METER)

If more than 1 meter is required, how will meters be labeled? (ie: Unit 1, 2, etc, Unit A, B, etc.)

Additional Equipment:

Generator: KW: _____ Phase: _____ Purpose: _____

Motor(S) : Total # : _____ Largest HP: _____ Phase: _____ Locked Rotor AMP: _____

Type of Starting Compensation (choose one): Hard Soft Capacitor VFD

*See Article 802 of EVERSOURCE Information and Requirements Book for Maximum LR current and Three Phase Protection *

Contact Name (circle appropriate):

Customer/Contractor/Consultant: Barbara Kassabian

Street Address: 750 West Center St, Suite 301

City, State, Zip: W.Bridgewater, MA 02379

Telephone: _____

Best Time to Call: Monday-Friday 8 a.m. to 5 p.m.

Pager: _____

Fax: _____

Cell: 603-303-8001

Electrician: TBD

License Number: _____

Business Name: Verizon Wireless Street

Address: 118 Flanders Road, 3rd Floor

City, State, Zip: Westborough, MA 01581

Telephone: 508-320-2017 Best Time to Call: _____

Pager: _____

Fax: _____

Cell: _____

Please note that by Interconnecting with the EVERSOURCE Distribution System the Customer of Record acknowledges that they have reviewed and are in compliance with the EVERSOURCE Information & Requirements for Electric Service (Blue Book).

For New Commercial Services, New Residential Developments, New 13.8 kv Two Line Station Electric Service, please provide (2) copies of City/Town approved site plans that illustrates the new facility location and the proposed location of the new utilities (electric, gas, water, sewer, telecommunications) and a One-Line Diagram.

For Service Increases at existing facilities, please submit a One-Line Diagram if available.

For New Residential Services where a pole must be set, please provide (2) copies of a site plan that illustrates the proposed location of the new facilities.

For Temporary Service Requests, please provide (2) copies of a site plan illustrating service location.

You may Fax this Form or mail any additional correspondence to:

EVERSOURCE ENERGY Electric and Gas
One NSTAR Way
Westwood, MA, 02090
Tel: (781) 441 – 3851
Fax: (781) 441-3194
Cell: 339-987-7059
H. Kendrick SW340

FOR NSTAR USE ONLY

EVERSOURCE Revenue Allowance: _____ EVERSOURCE Rate: _____

KVA or KW rating of Existing Loads (if applicable):

Existing Winter Peak Demand: _____

Month/Date/Year: _____

Existing Summer Peak Demand: _____

Month/Date/Year: _____



AFFIDAVIT OF RADIO FREQUENCY ENGINEER

The undersigned, in support of the application to install two small wireless communications facilities (SWFs) each consisting of one antenna and associated radio equipment on an existing utility pole located in the Town of Westwood, Massachusetts, states the following:

1. My name is Thejasree Vemulapalli. I have a Bachelor of Engineering, Electrical & Electronics Engineering degree from the Velagapudi Ramakrishna Siddhartha Engineering College and a Master of Science, Computer Networking degree from the New Jersey Institute of Technology. I have been employed as a Radio Frequency (RF) Design Engineer for thirteen (13) years, the last two and a half years with Verizon Wireless. I am responsible for network design in the area of Massachusetts that includes the Town of Westwood, MA.
2. Verizon Wireless is a federally licensed provider of wireless communications services with a national footprint.
3. The proposed small wireless facilities are within areas where Verizon Wireless has identified a need to install additional facilities in order to provide reliable wireless service for customers and emergency responders and access to new technologies. The search areas for each proposed facility was determined with reference to Verizon’s existing network serving the Westwood area and by identifying those areas in need of improved service. Furthermore, it was determined that the areas served by the facility would interact well with those of existing and proposed facilities in the surrounding areas.

The following table provides details of the proposed site:

Site Name	Street Address	Pole #
WESTWOOD_SC19_MA	793 High Street	19/85

4. Small cell deployments are intended to complement, not replace, macro (i.e., towers) network sites, and are typically target areas of heavy network usage (a.k.a “hotspots”). In doing so, small cells serve to offload the demand on the existing sites serving these hotspots. This not only improves service to the targeted area, but also improves overall system performance elsewhere in the network. In addition, small cells allow for Verizon’s deployment of new technologies that will further enhance the network experience and reliability, including faster download time and lower latency.
5. Pursuant to its Federal Communications Commission (FCC) licenses, Verizon Wireless is required to ensure that all radio equipment operating at the proposed communications facilities and the resulting radio frequency exposure levels are compliant with FCC requirements as well as federal and state health and safety standards.

6. Providing wireless communications services is a benefit to the residents of the Town of Westwood, as well as to mobile customers traveling through the area. The proposed facility reflects the location and design required to meet Verizon Wireless' network objectives with respect to capacity and coverage enhancement and deployment of new technologies. Without the proposed facility, Verizon Wireless will be unable to provide reliable wireless communication services in this area of Westwood; therefore, Verizon Wireless respectfully requests that the Town of Westwood act favorably upon the proposed facility.

Signed and sworn under the pains and penalties of perjury this 18th day of May, 2022.

Thejasree Vemulapalli

Thejasree Vemulapalli
Senior RF Design Engineer
Verizon Wireless
900 Chelmsford Street
Lowell, MA 01851



May 18, 2022

**Town of Westwood
580 High Street
Westwood, MA 02090**

RE: Verizon Wireless Small Cell Site

Dear Town of Westwood,

Verizon is proposing to install additional wireless telecommunications facilities in order to meet the growing demand for Verizon Wireless service by residents, businesses, visitors, and emergency responders.

To ensure general public safety, it is important that you contact Verizon Wireless personnel at least 24 hours in advance should general maintenance need to be performed in areas of potential concern as marked on the next page of this document. This is required to comply with FCC guidelines and ensure the environment is safe for general maintenance workers who may require RF Safety & Awareness training. With notification, Verizon Wireless is able to evaluate appropriate actions needed relating to the antennas and proximity of the work location.

Verizon has a process to deactivate power on small cells (regardless of whether the small cell is 4G or 5G) while work is being done on the pole (including joint use poles). The information needed to have a small cell powered down for work to occur on the pole (including contact numbers and pole identifiers) is provided at a safe distance from the small cell on the pole itself. Please contact Verizon Wireless personnel at least 24 hours in advance if you need to perform maintenance at that site. If you have any additional questions, our point of contact in that area is Luis Teves.

The Federal Communications Commission (FCC) has developed safety rules for human exposure to RF emissions in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. These rules can be found at 47 C.F.R § 1.1310. No matter which generation of technology we use, all Verizon equipment complies with these safety requirements.

The FCC supported and adopted the standards after examining the RF research that scientists in the US and around the world conducted for decades. The research continues to this day, and agencies continue to monitor it. Based on that research, federal agencies have concluded that equipment that has been deployed in a manner that complies with the safety standards poses no known health risks. You can obtain further information about the safety of RF emissions from cell equipment on the FCC's website, which you can access via this link: <http://www.fcc.gov/oet/rfsafety/rf-faqs.html>.

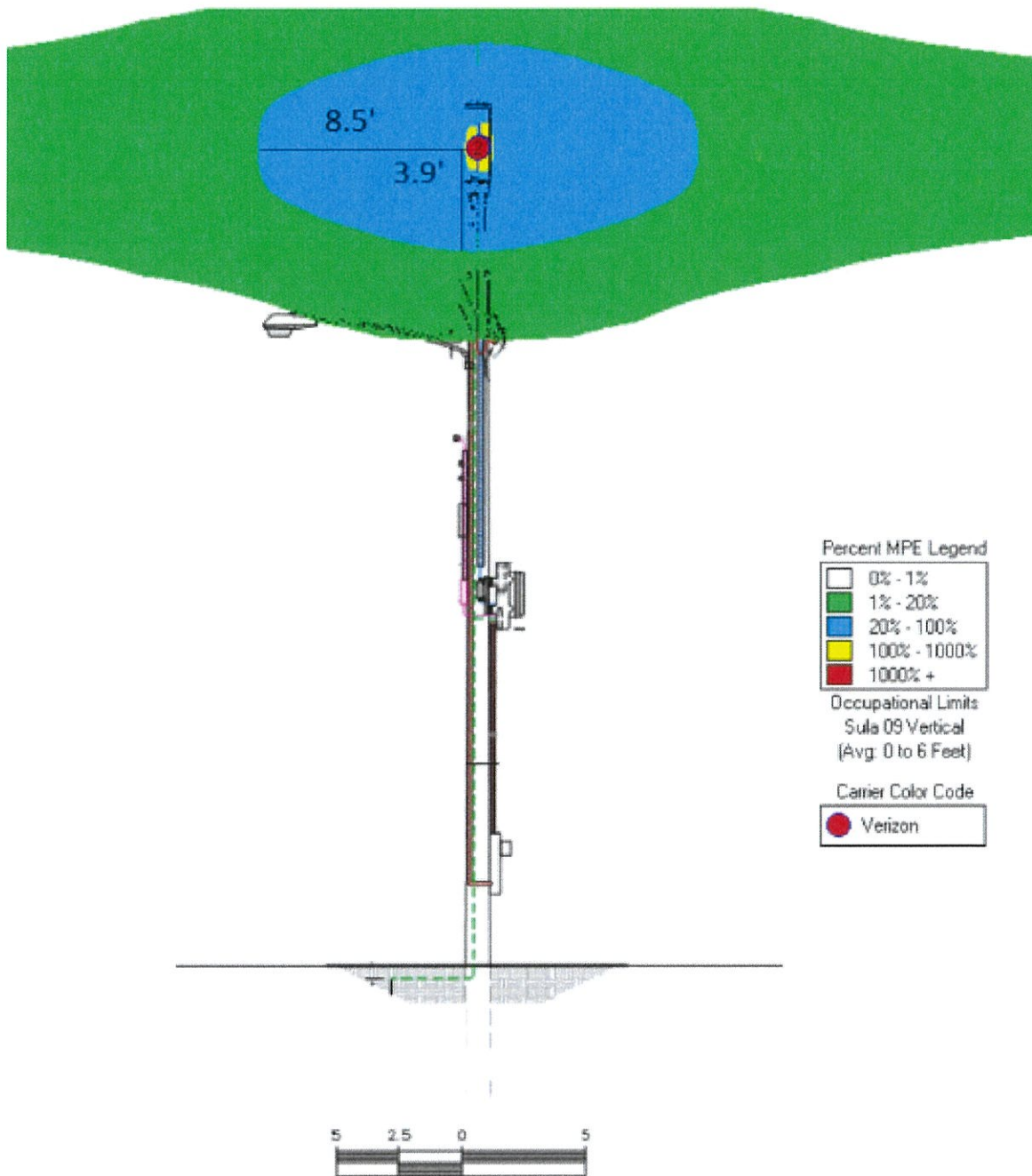
We appreciate the chance to explain our activities regarding the proposed wireless facilities at issue. Questions related to compliance with federal regulations should be directed to VZWRFCCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional RF questions.

Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireless.com	508-479-3197

Sincerely,
Rabeya Ahmad
Manager - RF Design
Verizon Wireless

Verizon Wireless (VZW) Radiofrequency (RF) Emissions Map

The following site layout represents a current snapshot in time of the predicted Verizon Wireless RF emissions from transmitting antennas on these facilities. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.



Color	% Occupational MPE	Instructions
Green	0 to 20	Safe In Relation to VZW. Contact Other Carriers Before Entering This Area Contact VZW Before Accessing This Area
Blue	20 to 100	
Yellow	Greater Than 100	
Red	Greater Than 1000	

The Verizon logo, consisting of the word "verizon" in a white, lowercase, sans-serif font, followed by a red checkmark symbol. The background of the entire page is a photograph of a city rooftop with several communication towers and antennas, with a tall apartment building in the background under a cloudy sky.

verizon

RADIOFREQUENCY EMISSIONS

**SAFETY & AWARENESS
REFERENCE GUIDE**

This handout is not intended to replace the FCC/OSHA mandated occupational requirement for RF Safety & Awareness Training

FEDERAL COMPLIANCE REQUIREMENTS

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration.

The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards incorporate prudent margins of safety.

CLASSIFICATIONS FOR EXPOSURE LIMITS

OCCUPATIONAL

Persons are "exposed as a consequence of their employment" and are "fully aware of the potential for exposure and can exercise control over their exposure".

GENERAL POPULATION

Any persons that "may not be made fully aware of the potential for exposure or cannot exercise control over their exposure".

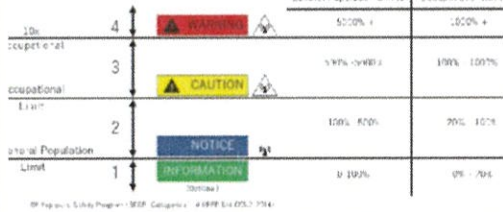
Those in this category do not require RF Safety & Awareness Training

ENSURING COMPLIANCE WITH FCC GUIDELINES

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. Wireless Licensees are required by law to implement the following:

- Restrict access
- Post notification signage on every access point to increase awareness of the potential for exposure BEFORE one enters an area with antennas.
- Place additional notification signage and visual indicators in an area with antennas (beyond an access point) where RF exposure levels may start to exceed the FCC's limits.

MPE CHART



EXPOSURE MANAGEMENT

- Assume that all antennas are active
- Obey all posted signs
- Do not stop in front of any antenna
- Recognize the type of antenna and approach at the safest angle
- Contact wireless operator to coordinate access if required
- Signage will indicate where potential RF conditions exist
- Understand pathways of safe egress
- If needed and possible wear personal protection equipment
- When using a personal monitor, remember the time averaging limits and monitor alarm thresholds if working in front of antennas
- If experiencing symptoms of heat exhaustion or nausea, remove yourself from the worksite and seek medical attention
- Power density decreases with distance so maintain distance between you and the antennas. The greater the distance you are from an antenna the bigger the reduction of RF exposure you will receive

PROPERTY OWNER RESPONSIBILITIES (M.E.N.U.)

RF exposure safety and the protection of every licensee's infrastructure are very important. Property owners and licensees have a shared responsibility in maintaining a safe and secure RF environment. Property owners can help in this significant endeavor by:

- **M**aintaining all necessary wireless licensee contact information.
- **E**nforcing restricted access (help maintain a Controlled Environment). Ensuring all building/maintenance personnel are trained in RF Safety, aware that the potential for exposure exists, and follow all appropriate entry and safety procedures.
- **N**otifying all licensees when any non-carrier requests access to any area with antennas at least 24 hours in advance.
- **U**nderstanding that compliance with the FCC and OSHA can be achieved with RF Exposure levels above the applicable limit if the proper signage, physical/indicative barrier, and access restrictions are implemented. Commitment to compliance and willingness to cooperate are essential.

NOTIFICATION SIGNS



A blue Notice sign is posted when levels (beyond posted signage) may exceed General Population MPE limits.



A yellow Caution sign is posted when levels (beyond posted signage) may exceed Occupational MPE limits.



A orange Warning sign is posted when levels (beyond posted signage) exceeded 10 times the Occupational MPE limits.

TYPES OF ANTENNAS

MICROWAVE ANTENNA

- Highly directional antenna model used for point to point communications
- Approach from the rear and sides. Do not stand or walk in front of microwaves as they transmit at a high frequency.



PANEL ANTENNA

- Range from 1 to 8 feet in length
- Sled mounted or to a support structure on site (Rooftop)
- Approach these antennas from the rear.



OMNI ANTENNA

- Omni antennas have the appearance of a rod-shaped pole and radiate in a 360° pattern around the pole.
- At the antenna level, there is no approach angle that is safer than another. Typically, emissions directly below the antenna are less than in front of the antenna.



QUASI-OMNI ANTENNA

- Quasi-Omni antennas have the appearance of a cylinder and contain emitters that radiate in a 360° pattern around the pole.
- At the antenna level, there is no approach angle that is safer than another. Typically, emissions directly below the antenna are less than in front of the antenna.



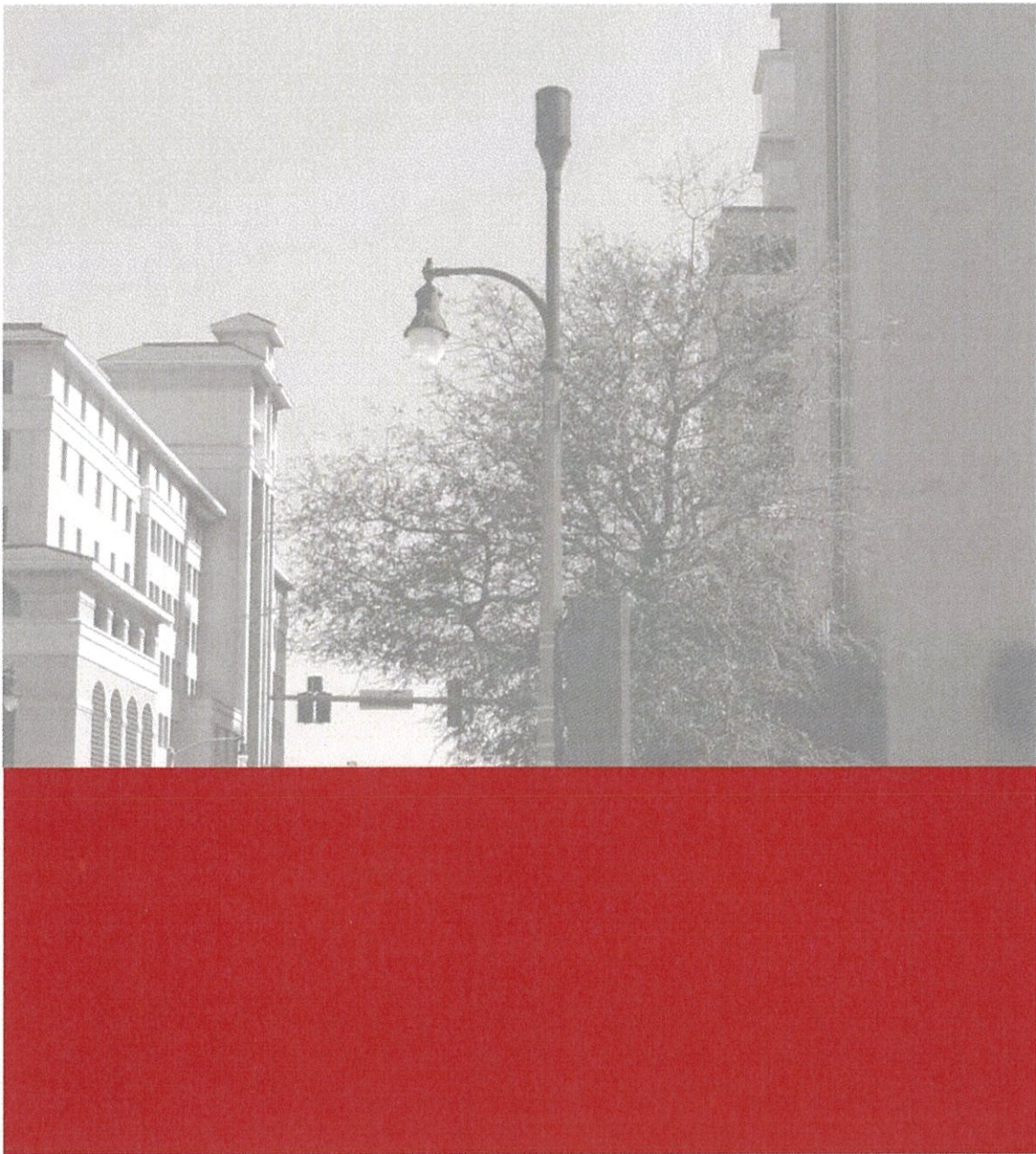
YAGI ANTENNA

- Directional antenna model
- Approach from sides and rear.



RF SAFETY TRAINING CONTACTS

WATERFORD CONSULTANTS www.waterfordconsultants.com
 EBI www.ebiconsulting.com
 SITESAFE www.sitesafe.com
 DTECH COMMUNICATIONS..... www.dtech.com



CONTACT US

Email: VZWRFCompliance@vzw.com
Subject: "ATTN:RF Compliance"

For Emergency Maintenance:
1-800-264-6620

verizon^v