Ilene Simons 198 Loring Ave

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Tuesday, May 19, 2020 2:05 PM
To: Ilene Simons
Cc: Maureen Fisher
Subject: Verizon Wireless Continued Small Cell Petitions
Attachments: City Council Further Supplemental Submission - Verizon Wireless.pdf

Hi Ilene,

Good Afternoon. In further support of its continued small cell petitions, Verizon Wireless is providing a further supplement to its initial filing.

My client would respectfully request that the attachment be entered into the City Council record. If you would like me to send hard copies of the attachment, please just let me know.

As it relates to the attendees at the upcoming City Council meeting on May 28th, Verizon Wireless respectfully provides the following list:

sean.conway@verizonwireless.com
aarmstrong@airosmithdevelopment.com
ramzi.farchoukh@verizonwireless.com
dklasnick@dkt-legal.com

I greatly appreciate your attention to this matter. Please don't hesitate to contact me with any questions. Have a great day!

Best regards, Dan

Daniel D. Klasnick, Esq.
Duval & Klasnick LLC
Counselors at Law
210 Broadway Street, Suite 203
Lynnfield, MA 01940
dklasnick@dkt-legal.com
Direct Dial: (781) 873-0021
Mobile: (774) 249-2814
www.dkt-legal.com

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DUVAL & KLASNICK LLC
COUNSELORS AT LAW

OUR EXPERTISE. YOUR FUTURE. SUCCEEDING TOGETHER.®

Daniel D. Klasnick
Licensed in Massachusetts and New Hampshire
dklasnick@dkt-legal.com

May 19, 2020

City Council
Salem City Hall
93 Washington Street
Salem, Massachusetts 01970

Re: Applicant: Cellco Partnership d/b/a Verizon Wireless
Continued Grant of Location Petitions to Install Small Cell Equipment

Dear Council President McCarthy:

Verizon Wireless is providing the enclosed supplemental Alternative Pole Analysis dated May 18, 2020 for the proposed small cell utility pole installations on Raymond Road (Salem_SC13_MA) and Loring Avenue (Salem_SC15_MA).

The attachment is a further supplement to the previously filed Alternative Pole Analysis dated May 6, 2020 and specifically addresses the request to consider additional alternative pole locations.

Verizon Wireless looks forward to meeting virtually with the City Council and continuing the presentation of its petitions. Should you require any additional information, please don't hesitate to contact me.

Thank you very much for your cooperation.

Very truly yours,
DUVAL & KLASNICK LLC

By: Daniel D. Klasnick
Attorney at Law

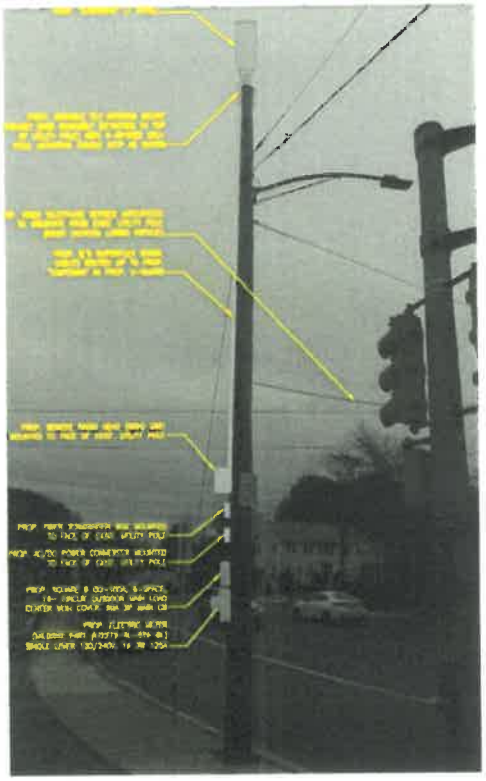
Salem Alternative Pole Analysis

May 18, 2020

verizon

SALEM_SC15_MA

198 Loring Ave



SALEM_SC15_MA	198 Loring Ave	Pole 4064 - 84	Pole is 26' from Residence
Pole #	Closest Address	Reason for Candidate Disqualification	
2595	197 Loring Ave	Utility Compliant, however much fuller & 11' from residence	Across St
2687	193 Loring Ave	Transformer	North on 1A
UNK	185 Loring/Corner of Grant	Four Way Power Junction, Primary reclosers	North on 1A
2591	179 Loring Ave	Beyond Objective - In the trees	North on 1A
2593	Corner of Pickman and Loring	Junction Pole	South on 1A
2596	Corner of Pickman and Loring	Junction Pole, Primary reclosers	South on 1A
2592	205/207 Loring Ave	Transformer	South on 1A

verizon

RF Analysis

RF Solution

- Offload Swampscott_MA macro site
- Clear line of site North and South on Route 1A - an important road for us to cover for current and future need
- Capacity solution for homes in the area

verizon

Alternative candidates to the North

197 Loring Ave - Pole 2595

Utility Compliant, however much fuller & 11' from residence

193 Loring Ave - Pole 2687

Transformer

Corner of Loring & Grant

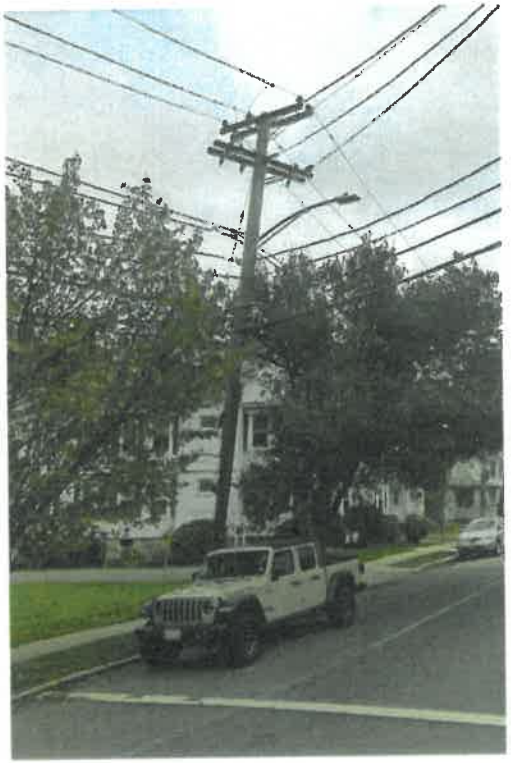
Four Way Power Junction & Primary reclosers

verizon

Alternative candidates to the South

Corner of Pickman & Loring - Pole 2593

Junction Pole



Across - Corner of Pickman & Loring - Pole 2596

Junction Pole, Primary reclosers

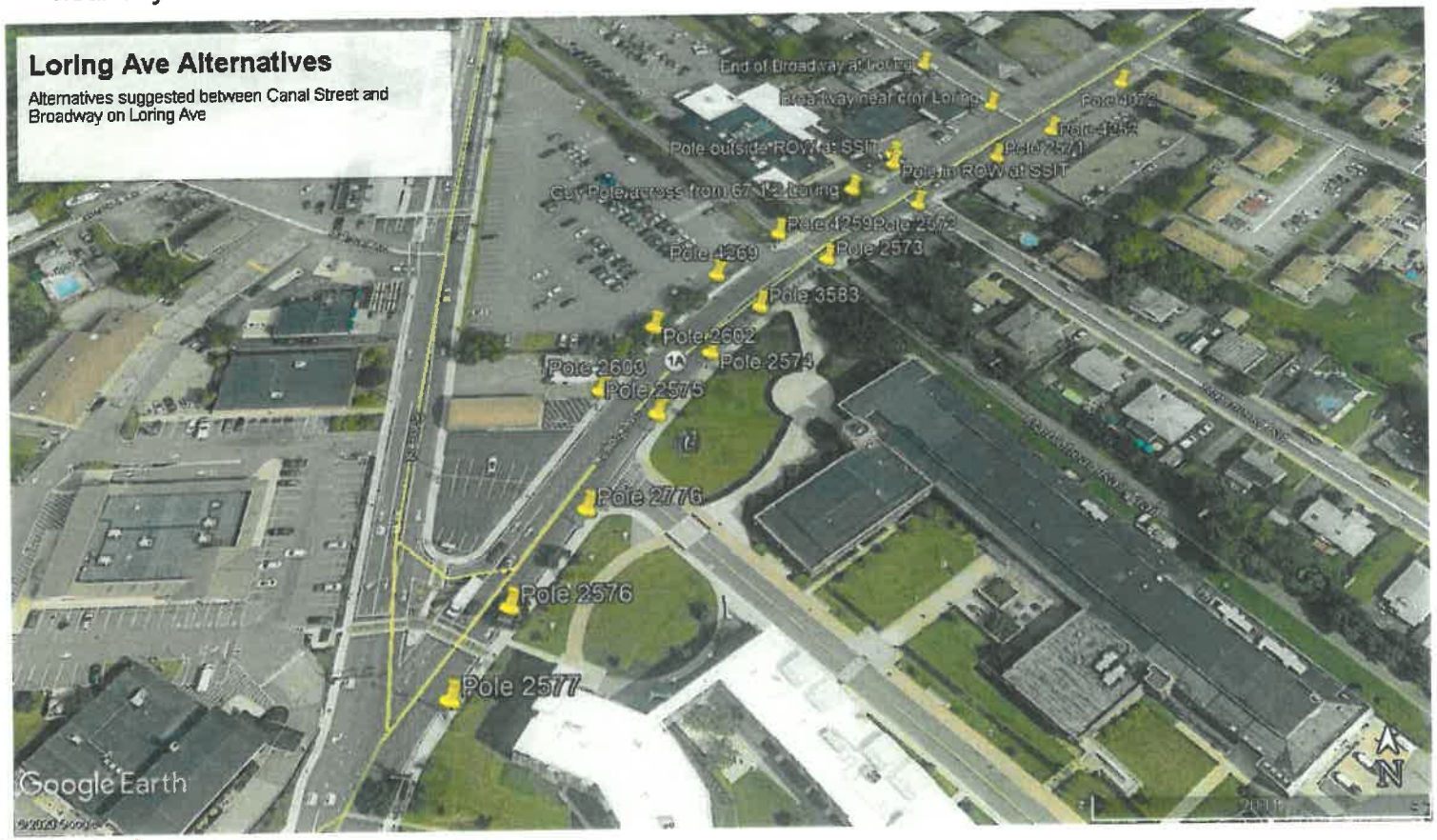
205/207 Loring - Pole 2592

Transformer

verizon

Alternative candidates Suggested by Councilor Dibble

- *Broadway near corner of Loring Ave, near Salem Fire Dept 9need to check with Fire Chief Giunta to determine if SFD has objection, if none, good location to reach Rainbow Terrace housing, Loring Ave traffic, and SSU Central Campus dorms and classrooms)*
- *Loring Ave across from Central Campus between Canal Street and Broadway*
- *2nd location at Loring Ave across from Central Campus between Canal Street and Broadway*
- *On any of the Loring Ave poles hosting a high load of utilities near Salem State central campus but not near any homes*



verizon

Alternative candidates Suggested by Councilor Dibble

Broadway near corner of Loring Ave, near Salem Fire Dept 9

Broadway near corner of Loring

Junction Pole and Fire Alarm

End of Broadway At Loring

Existing equipment, meter

Loring Ave across from Central Campus between Canal Street and Broadway

Across from Broadway – Pole 4252

Junction pole, Power riser and reclosers

verizon

Alternative candidates Suggested by Councilor Dibble

Loring Ave across from Central Campus between Canal Street and Broadway

1 pole north of Broadway on Loring – Pole 4072

Transformer

1 Pole South on Loring – Pole 2571

Existing equipment, meter

2 Poles South on Loring/Corner of Raymond – Pole 2572

Junction pole & Reclosers

verizon

Alternative candidates Suggested by Councilor Dibble

Loring Ave across from Central Campus between Canal Street and Broadway

Pole in ROW at SSIT

Risers and Reclosers

Pole outside of ROW at SSIT Parking

Power riser, Outside ROW

Guy Pole across from 67 1/2 Loring

Utility compliant but in the trees - does not work for RF

verizon

Alternative candidates Suggested by Councilor Dibble

Loring Ave across from Central Campus between Canal Street and Broadway

Loring and corner of SSU Parking – Pole 4259

Risers and Reclosers

Pole at Loring and Bike Path – Pole 2573

Junction Pole and Risers to Pedestrian sign

Pole on Loring in front of SSU Parking – Pole 4269

Fused cutouts - which National Grid considers equipment

verizon

Alternative candidates Suggested by Councilor Dibble

Loring Ave across from Central Campus between Canal Street and Broadway

Loring – Pole 3583

Meter and control box

Loring– Pole 2574

Fire alarm

Loring – Pole 2602

Utility compliant but in the trees - does not work for RF

verizon

Alternative candidates Suggested by Councilor Dibble

Loring Ave across from Central Campus between Canal Street and Broadway

Loring – Pole 2603

3 Transformers

Loring– Pole 2575

Power riser and Reclosers

Loring – Pole 2776

3 Way Junction Pole &
Power Riser

verizon

Alternative candidates Suggested by Councilor Dibble

Loring Ave across from Central Campus
between Canal Street and Broadway

Loring – Pole 2576

Risers and Reclosers

Loring– Pole 2577

Junction Pole

verizon

Alternative candidates Suggested by Councilor Dibble

- Monroe Rd fairly close to Loring Ave behind Greenhouse School and next to tennis courts and salt water marsh with direct views 640' away from SSU central campus dorms
- 2nd location at Monroe Rd fairly close to Loring Ave behind Greenhouse School and next to tennis courts and salt water marsh with direct views 660' from SSU central campus dorms

verizon

Alternative candidates Suggested by Councilor Dibble

- Monroe Rd fairly close to Loring Ave behind Greenhouse School and next to tennis courts and salt water marsh with direct views 640' away from SSU central campus dorms
- 2nd location at Monroe Rd fairly close to Loring Ave behind Greenhouse School and next to tennis courts and salt water marsh with direct views 660' from SSU central campus dorms

Monroe – Pole 415

Transformer

Monroe – Pole 2408

Existing Equipment

Monroe – Pole 2410

Utility Compliant – Heavy foliage affecting RF signal

verizon

Alternative candidates Suggested by Councilor Dibble

Pickman Park Playground, corner Monroe and Lincoln Roads with 100% unobstructed views across salt water marsh 950' to SSU Central Campus dorms and Rainbow Terrace beyond.

verizon

Alternative candidates Suggested by Councilor Dibble

Last 2-3 poles at end of public ROW section of Pickman Rd before you enter Pickman Park Condo property (last pole is overgrown but nearly free of all utilities.

Poles are away from intended RF objective and within heavy foliage

verizon

Alternative candidates Suggested by Councilor Dibble

Pierce Road at section off of Buchanan Rd next to Community Gardens inside Pickman Park Playground – 2 pole locations

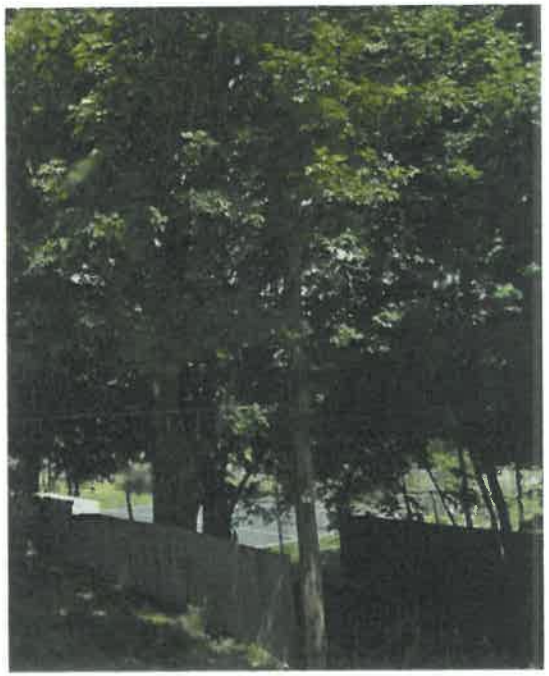
verizon

Alternative candidates Suggested by Councilor Dibble

Pierce Road at section off of Buchanan Rd next to Community Gardens inside Pickman Park Playground – 2 pole locations

Pole at Pierce and Buchanan

3 Way Junction Pole



Pierce Street – Pole 440

Pole directly in trees – no value to RF

verizon

Alternative candidates Suggested by Councilor Dibble

- Loring Ave guy pole south of Dead Man's Curve and north of Riverview Street
- 2nd guy pole Loring Ave guy pole south of Dead Man's Curve and north of Riverview Street

verizon

Alternative candidates Suggested by Councilor Dibble

- Loring Ave guy pole south of Dead Man's Curve and north of Riverview Street
- 2nd guy pole Loring Ave guy pole south of Dead Man's Curve and north of Riverview Street

Both poles are outside of RF coverage objective for these 2 locations. Would also require pole replacements to much larger poles .

verizon

Thank You

verizon

Ilene Simons

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Tuesday, May 12, 2020 11:12 AM
To: Ilene Simons
Cc: Maureen Fisher
Subject: RE: Verizon Wireless Continued Small Cell Petitions

Hi Ilene,

Good morning. As it relates to the 2 continued Verizon Wireless petitions for grant of location (198 Loring Avenue and 28 Raymond Road) scheduled for review at the City Council's May 14th regularly scheduled meeting. Verizon Wireless respectfully requests that the City Council further continue both petitions until the City Council's next scheduled meeting on **May 28, 2020**.

I would greatly appreciate confirmation that this email is sufficient to request the continuance or if you need me to provide correspondence. I understand that it will not be necessary to have a representative attend the City Council virtual meeting on May 14th.

I would appreciate confirmation of receipt of this email.

Verizon Wireless looks forward to continuing to work with the City Council concerning the matters that were discussed at the virtual public hearing.

Best regards, Dan

Daniel D. Klasnick, Esq.
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Lynnfield, MA 01940
dklasnick@dkt-legal.com
Direct Dial: (781) 873-0021
Mobile: (774) 249-2814
www.dkt-legal.com

Please consider the environment before printing this e-mail.

Ilene Simons

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Monday, May 11, 2020 10:16 AM
To: Ilene Simons
Cc: Maureen Fisher
Subject: Verizon Wireless Continued Small Cell Petitions
Attachments: City Council Submission - Verizon Wireless Salem SC.pdf

Hi Ilene,

Good morning. I hope you had a nice weekend. In further support and consistent with our discussion with the City Council at the April 23rd meeting, Verizon Wireless is providing a further supplement to its initial filing. Verizon Wireless is providing documentation to further support its due diligence site selection by providing an Alternative Pole Analysis and RF Affidavit related to the proposal to install small cell equipment on the utility poles in the right of way adjacent to the properties at 198 Loring Avenue and 28 Raymond Road. I have also included correspondence to the City Council to further outline compliance with the permitting standards.

My client would respectfully request that the attachments be entered into the City Council record. If you would like me to send hard copies of the attachments, please just let me know.

As it relates to the attendees at the upcoming City Council meeting on May 14th, Verizon Wireless respectfully provides the following list:

sean.conway@verizonwireless.com
aarmstrong@airosmithdevelopment.com
ramzi.farchoukh@verizonwireless.com
dklasnick@dkt-legal.com

I greatly appreciate your attention to this matter. Please don't hesitate to contact me with any questions. Have a great day!

Best regards, Dan

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COUNSELORS AT LAW

OUR EXPERTISE. YOUR FUTURE. SUCCEEDING TOGETHER.®

Daniel D. Klasnick
Licensed in Massachusetts and New Hampshire
dklasnick@dkt-legal.com

May 6, 2020

City Council
Salem City Hall
93 Washington Street
Salem, Massachusetts 01970

Re: Applicant: Cellco Partnership d/b/a Verizon Wireless
Continued Grant of Location Petitions to Install Small Cell Equipment

Dear Council President McCarthy:

Cellco Partnership d/b/a Verizon Wireless has filed petitions to install small cell wireless equipment on utility poles located in the right of way in the City of Salem. At a duly noticed hearing on April 23, 2020, the City Council voted to continue two of the petitions for small cell utility pole installations on Raymond Road (Salem_SC13_MA) and Loring Avenue (Salem_SC15_MA).

In responding to the City Council's request, Verizon Wireless is providing the enclosed Alternative Pole Analysis, which is a supplemental filing to the February 26, 2020 petitions. While Verizon Wireless is statutorily entitled to nondiscriminatory access to any pole, duct, conduit or right-of-way, the availability of poles is limited by the standards imposed by the pole owner concerning insufficient capacity and for reasons of safety, reliability and generally applicable engineering purposes. These standards will generally preclude the installation of small cell equipment on poles that contain primary power lines, transformers or other critical utility infrastructure. Those requirements can significantly limit the availability of utility poles for the installation of small cell equipment. In addition to the criteria of the pole owner, the location must also satisfy Verizon Wireless' network requirements including consideration of radio frequency interference resulting from existing equipment installed on the pole. The Alternative Pole Analysis illustrates the factors that were considered and the review process that was undertaken to select the proposed locations for the small cell equipment installations.

To further support its petitions, Verizon Wireless is providing the enclosed Affidavit of Radio Frequency Engineer. The enclosed Affidavit of Radio Frequency Engineer was prepared by the engineer that has studied the proposed sites in relationship to the network design in the City of Salem. Based upon the review of the network, the engineer has provided a sworn statement certifying the need and suitability of the selected utility poles to address the targeted service

requirements in the City of Salem. As has been discussed in detail at the prior meeting, the objective of the proposed "small cell" installations on the utility poles is to address service requirements for Verizon Wireless customers and emergency responders within areas of Salem that are not adequately served by existing Verizon Wireless coverage from "macro" facilities on towers or other tall structures. The proposed small cell facilities will address the capacity service in the targeted area where this service is currently unavailable or unreliable because the signal is dissipated by the distance from the nearest macro facility, obstructed by the intervening terrain, or diverted by high demand closer to the macro facility.

Because Verizon Wireless is applying for approval for the installation of equipment that provides wireless services, the application is subject to §704 of the federal Telecommunications Act of 1996, codified at 47 U.S.C. §332(c)(7)(B) and 47 U.S.C. §253. The Federal Communications Commission in its Declaratory Ruling and Third Report and Order adopted on September 26, 2018 clarified that under Sections 253(a) or 332(c)(7)(B)(i)(II), "an effective prohibition [of service] occurs where a state or local legal requirement materially inhibits a provider's ability to engage in any of a variety of activities related to its provision of a covered service." By this ruling, the Commission clarified that it is an effective prohibition of the provision of wireless service if a state or local requirement prevents or constrains a provider "not only when filling a coverage gap but also when densifying a wireless network, introducing new services or otherwise improving service capabilities." The Commission further clarified that an effective prohibition includes inhibiting a provider from deploying the "performance characteristics" of its choosing.

The small cell installations on the utility poles will have minimal if any adverse visual impact on adjacent properties and neighborhoods. The courts have held that an aesthetic judgment may not "mask ... a *de facto* prohibition of personal wireless services" and must be "grounded in the specifics of the case."[1] Generalized concerns that would apply to any wireless service facility or aesthetic judgments that are "demonstrably without substance" do not amount to substantial evidence.[2] The Federal Communications Commission in its Declaratory Ruling and Third Report and Order further clarified that local aesthetic requirements are preempted, by Sections 253 and 332, if they are applied in a manner that is not reasonable, that is more burdensome than those applied to other types of similar infrastructure deployments and are not published in advance. This Commission ruling acknowledges the fact that undefined aesthetic standards makes it impossible for a provider to effectively deploy the necessary facilities. The proposed small cell facilities represent a minimally intrusive way to provide the needed service to the City.

To the extent that the regulation of the pole attachments may be motivated by concern about the radio frequency energy levels from the pole mounted antenna, this is an impermissible basis for regulation. Section 332(c)(7)(B)(iv) of the Telecommunications Act prohibits local government from regulating personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Federal Communications Commission's adopted regulations concerning such emissions. The proposed

[1] *Southwestern Bell Mobile Systems, Inc. v. Todd*, 244 F.3d 51, 61(1st Cir. 2001)
[2] *Id.*

Verizon Wireless small cell site will contain a single low powered antenna and will comply with applicable FCC regulations. As part of the petition package and as an enclosure to this supplemental filing, Verizon Wireless has provided confirmation that the radio frequency emissions of Verizon Wireless' proposed small cell installations will comply with FCC standards.

The availability of wireless communications service enhances community safety, and is increasingly relied upon by first responders, civil defense and other safety officers as well as the general public in times of crisis, natural disaster, bad storms or similar circumstances. Wireless communications service also provides a convenience to residents and is an essential feature and service to educational institutions and businesses. The proposed small cells, by providing these services to the City, will promote the health, safety, convenience and general welfare of the inhabitants of Salem.

Verizon Wireless looks forward to continuing to work cooperatively with the City Council to facilitate the proposed installations that will provide improved wireless service to the residents, educational institutions and businesses of Salem.

Thank you very much for your cooperation.

Very truly yours,
DUVAL & KLASNICK LLC

By: Daniel D. Klasnick
Attorney at Law

Salem Alternative Pole Analysis

May 6, 2020

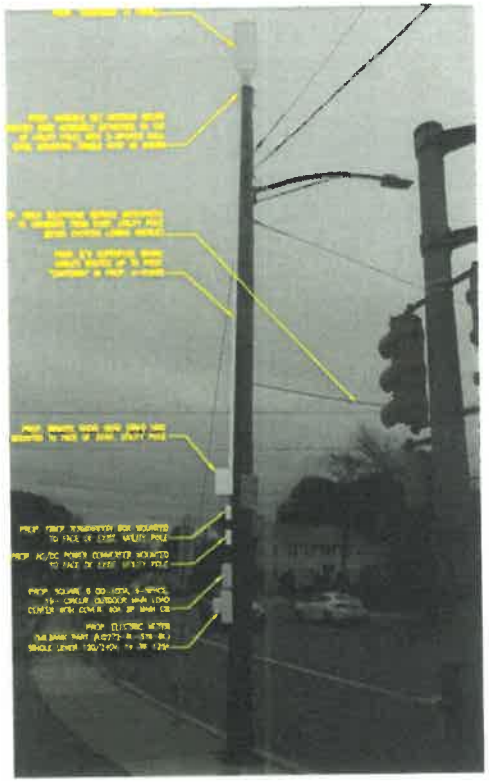
verizon

SALEM_SC15_MA

198 Loring Ave

RF Analysis

- Offload Swampscott_MA macro site
- Clear line of site North and South on Route 1A - an important road for us to cover for current and future need
- Centrally located between central campus and South campus of Salem state university



SALEM_SC15_MA	198 Loring Ave	Pole 4064 - 84	Pole is 26' from Residence
Pole #	Closest Address	Reason for Candidate Disqualification	
2595	197 Loring Ave	Utility Compliant, however much fuller & 11' from residence	Across St
2687	193 Loring Ave	Transformer	North on 1A
UNK	185 Loring/Corner of Grant	Four Way Power Junction, Primary reclosers	North on 1A
2591	179 Loring Ave	Beyond Objective - In the trees	North on 1A
2593	Corner of Pickman and Loring	Junction Pole	South on 1A
2596	Corner of Pickman and Loring	Junction Pole, Primary reclosers	South on 1A
2592	205/207 Loring Ave	Transformer	South on 1A

verizon

Alternative candidates to the North

197 Loring Ave - Pole 2595

Utility Compliant, however much fuller & 11' from residence

193 Loring Ave - Pole 2687

Transformer

Corner of Loring & Grant

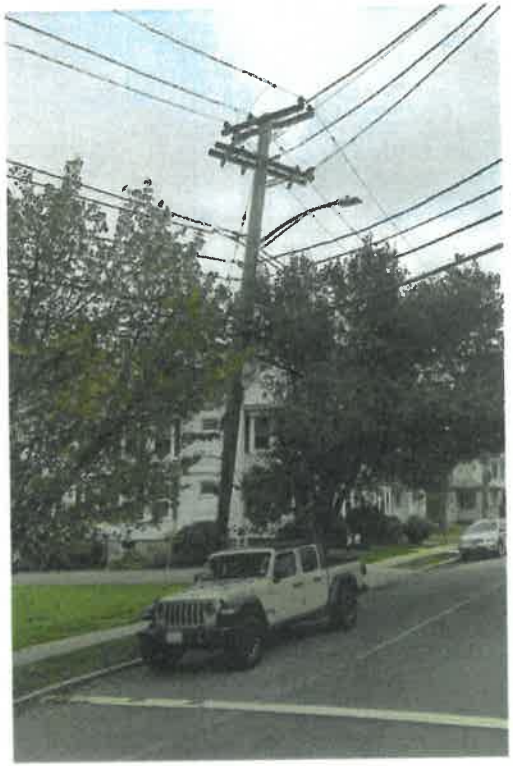
Four Way Power Junction & Primary reclosers

verizon

Alternative candidates to the South

Corner of Pickman & Loring - Pole 2593

Junction Pole



Across - Corner of Pickman & Loring - Pole 2596

Junction Pole, Primary reclosers

205/207 Loring - Pole 2592

Transformer

verizon

Thank You

verizon

verizon

AFFIDAVIT OF RADIO FREQUENCY ENGINEER

The undersigned, in support of the application to install a small wireless communications facility (SWF) consisting of one canister antenna and associated radio equipment on two (2) utility poles located in the City of Salem Massachusetts, states the following:

1. My name is Ramzi Farchoukh. I have a Master's Degree in Telecommunications Engineering from Northeastern University. I have been employed by Verizon for six (6) years, the past four (4) of those years with Verizon Wireless as an RF Engineer. I am responsible for network design in the area of Massachusetts that includes the City of Salem, 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 were determined with reference to Verizon's existing network serving the Salem area and by identifying those areas in need of improved service. Furthermore, it was determined that the areas served by each facility would interact well with those of existing and proposed facilities in the surrounding areas.

   The following table provides details of each proposed site:

Name	Address	Pole Number
SALEM_SC13_MA	28 Raymond Road	3412
SALEM_SC15_MA	198 Loring Avenue	4064-84

4. Small cell deployments are intended to complement, not replace, macro 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 City of Salem, as well as to mobile customers traveling through the area. The proposed facilities reflect the locations and designs required to meet Verizon Wireless' network objectives with respect to capacity and coverage enhancement and deployment of new technologies. Without the proposed facilities, Verizon Wireless will be unable to provide reliable wireless communication services in these areas of Salem; therefore, Verizon Wireless respectfully requests that the City of Salem act favorably upon the proposed facilities.

Signed and sworn under the pains and penalties of perjury this 1 day of May, 2020.

Ramzi Farchoukh
RF Design Engineer
Verizon Wireless
118 Flanders Road, 3rd Floor
Westborough, MA 01851

verizon

2/7/202020
To: City of Salem
Transmitted via email
RE: Verizon Wireless Small Cell Sites

Dear City of Salem,

Verizon is installing 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.

Thank you for your inquiry. 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.

You also expressed concerns about the health effects of RF emissions from Verizon's network equipment. 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 must comply 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 towers on the FCC's website, which you can access via this link: http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

Thank you for reaching out to us regarding your concerns. We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional questions.

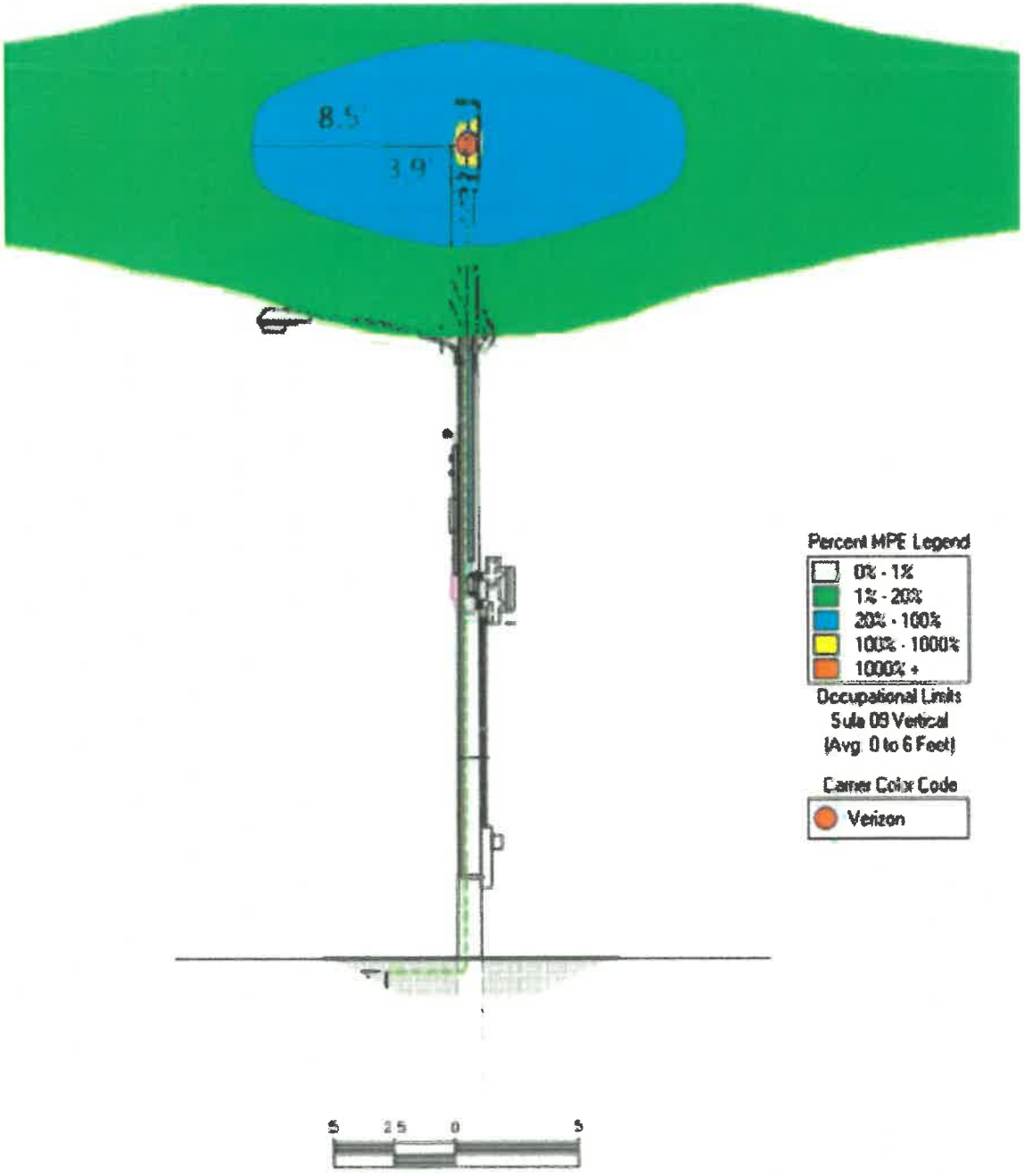
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

Sincerely,

Michael Creamer
Sr 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 this facility. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.



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

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). **E**nsuring all building/maintenance personnel are 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.

For General RF Safety & Awareness Questions

Verizon Wireless

E-mail: VZWRFCompliance@vzw.com

E-mail Subject: "ATTN: RF Compliance"

In The Event That Emergency Maintenance Is Required

24-Hour Network Operations Center:

1-800-264-6620

RF Safety & Awareness Training Contacts

Dtech Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

SiteSafe

(cbagley@sitesafe.com)

Waterford Consultants

Sbaier-anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions

SAFETY & AWARENESS

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. The following represents an overview of the most applicable information:

Classifications for Exposure Limits

Occupational	General Population
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".	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 have 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** (lock doors/ladders)
- **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.

Compliance Materials

Notification Signage

(Notice) RF Guidelines - Informs viewer of the basic safety guidelines for working in an RF Environment.

Information– Provides relevant contact information for any questions or requests.

(Blue) Notice - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.

(Yellow) Caution - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.

(Red) Warning - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

Indicative Barriers

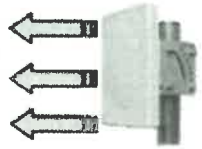
In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. **Examples of Indicative Barrier Materials:** plastic chains, buckets, reflective paint or plastic cones, fiberglass fences, and poles mounted in cinderblocks.

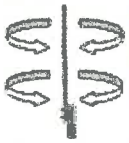
Antenna Safety

Antenna Types

Yagi - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**

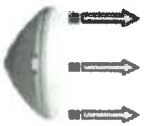
Panel - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**





Whip - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**

Microwave - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**



When In An Environment With Antennas:

⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.

⇒ Never touch an antenna. Assume all are active.

⇒ Read and obey ALL signs on an access point.

⇒ Read and obey ALL signs in the environment with antennas.

⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.

⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.

⇒ Contact all wireless licensees **at least 24 hours in advance** of scheduled maintenance.

verizon

5/6/2020

To:

RE: Verizon Wireless Small Cell Site to be Located in the Right of Way Near: **198 Loring Avenue, Salem, MA**

Dear,

Verizon is installing additional wireless telecommunications facilities in order to meet the growing demand for Verizon Wireless service by first responders and health care professionals, residents, businesses, and visitors.

Enclosed is information about a small cell telecommunications facility to be located on an existing utility pole in the right of way near 198 Loring Avenue, Salem, MA. Please note that the purpose of this installation is to provide emergency service providers and customers with enhanced and more reliable wireless, voice, and data services in the vicinity of the facility. We conducted a search for utility poles available to the small cell installation project using the pole owner attachment criteria, the City of Salem's Process and Guidelines for Access to Right of Way/Pole Attachments for Telecommunications Providers, and the Verizon system coverage and/or capacity location requirements. We evaluated several candidate pole locations in selecting the proposed pole for the facility. Our location survey demonstrated that the subject utility pole is located at a distance of 26 feet from the nearest residence. We have enclosed detailed plans showing what the wireless facility will look like when it is installed and a brochure describing small cell technology.

The Federal Communications Commission (FCC) has developed safety rules for human exposure to Radio Frequency (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 must comply with these safety requirements.

The FCC supported and adopted the standards after examining the RF research that scientists in the U.S. and around the world have 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 cellular facilities on the FCC's website, which you can access via this link: http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

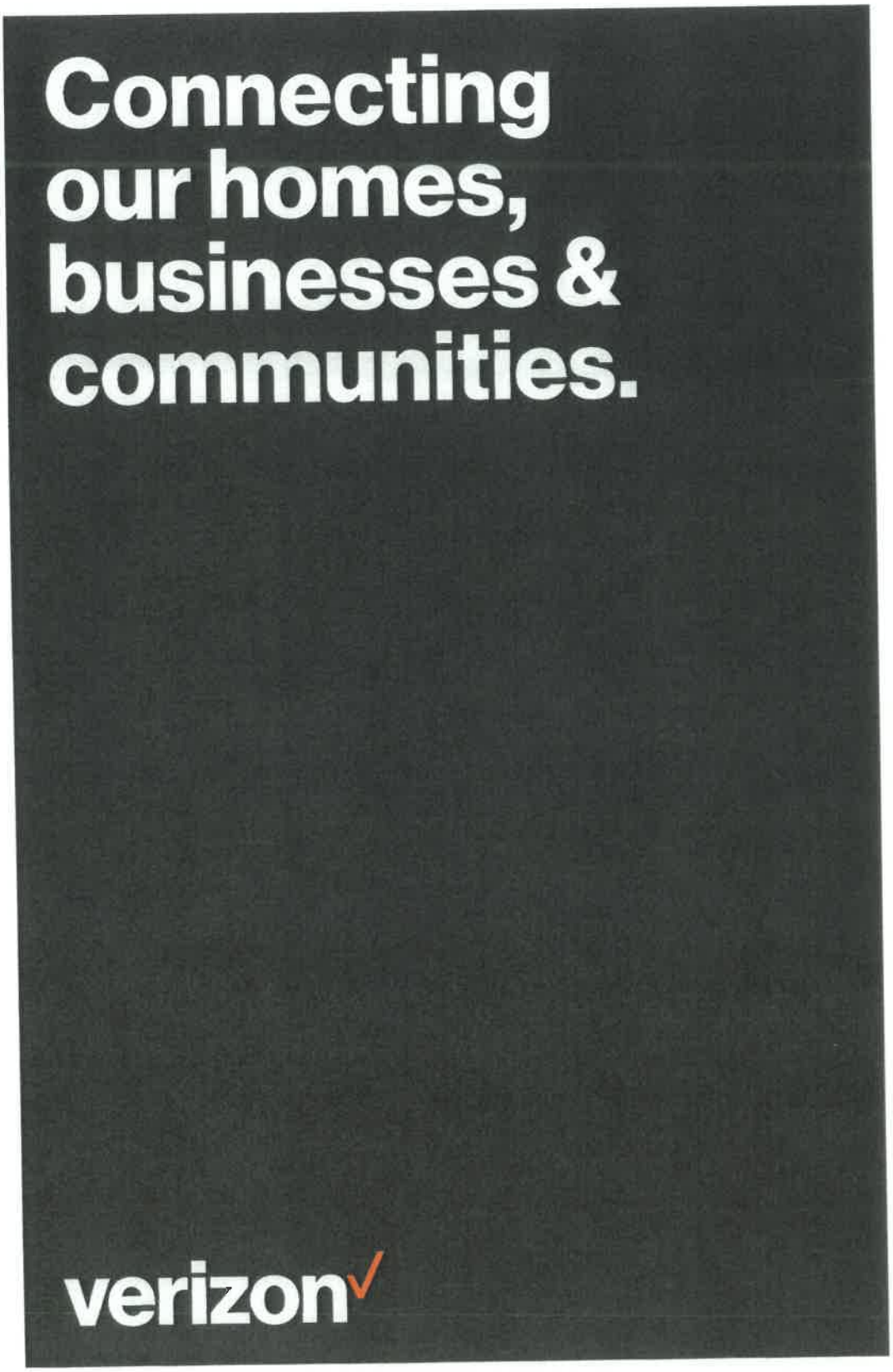
We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional questions.

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

Sincerely,

Rabeya Ahmad
Manager-RF System Design, Verizon Wireless

Attachments


Connecting
our homes,
businesses &
communities.
verizon

Why are we expanding the wireless network?

More people than ever before rely on wireless connections to manage their lives and businesses.

Verizon is expanding its wireless network to meet the growing demands of today and tomorrow.

But it takes time.

39GB
of data per month
Mobile data traffic per smartphone will rise from 7 GB per month in 2018 to 39 GB per month in 2024.[1]

57%
are now wireless
Around 57 percent of American households are now wireless only for voice service.[2]

31
billion devices
It is projected that there will be 31 billion connected devices by 2023.[3]

1. Ericsson Mobility Report, June 2019
2. CDC's 2016 Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, July-December
3. CTIA Infographics, January 2020

What it takes to keep families and businesses connected.

How does wireless service work?

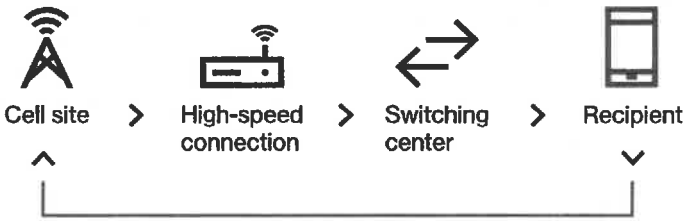
Radio frequencies can carry signals from radios and televisions, to baby monitors, garage door openers,home Wi-Fi service, and cordless phones.

Cell service uses these radio frequencies to wirelesslyconnect a mobile device with the nearest antenna. That antenna may be hidden in a church steeple, sitting on a rooftop, attached to a building façade or mounted on a freestanding tower structure. All are known generically as cell sites.

From the cell site, the call or data session then travels through a high-speed connection to a network switching center where it is then directed to the recipient.

This all happens in fractions of a second.

The many types of wireless technologies include cellular and fixed wireless, or Wi-Fi.



Different locations require different solutions.

Verizon uses a balanced approach to engineering the best possible network given the local community's needs.

Traditional, or macro cell sites, are most often the best choice for meeting coverage and capacity needs. Macro sites are traditional cell sites or towers that provide coverage to a broad area, up to several miles.

Small cells are just like the name implies – short range cell sites used to complement macro cell towers in a smaller geographic area ranging from a few hundred feet to upwards of 1,000 feet. These lower power antennas enhance capacity in high traffic areas, dense urban areas, suburban neighborhoods, and more. Small cells use small radios and a single antenna placed on existing structures including utility poles and street lights.

Distributed Antenna Systems (DAS) are a group of antennas in outdoor or indoor locations that connect to a base station. DAS systems are typically used in large venues including stadiums and shopping centers.

Staying ahead of demand.

A wireless network is like a highway system...

More wireless traffic needs more wireless facilities just like more vehicle traffic needs more lanes.

- Many wireless users share each cell site and congestion may result when too many try to use it at the same time.
- Wireless coverage may already exist in an area, but with data usage growth increasing exponentially each year, more capacity is needed.
- To meet capacity demands, we need to add more wireless antennas closer to users and closer to other cell sites to provide the reliable service customers have come to expect from Verizon.

In the US, mobile data traffic was 1.3 Exabytes per month in 2016, the equivalent of 334 million DVDs each month or 3,687 million text messages each second.*

*Cisco VNI Mobile Forecast Highlights, 2016-2021, February 2017

Finding the right location.

To meet customer needs and expectations, wireless providers need the ability to expand and enhance their networks where users live, work, travel and play.

Verizon gathers information from many sources including customer feedback, results of our own exhaustive network testing, and data from third parties.

When an area for improvement is identified, utilizing our existing network is always our first effort. If that is not possible, we then look at adding a new site.

Steps to finding a new site

Our engineers analyze the areas that need improvement to figure out the ideal location based on customer needs, terrain and modeling results.

Using existing structures is considered first.

Network teams perform exhaustive searches in the area needing improvement to find a location that will meet our technical needs. We also look at interest from property owners.

We pick a location that has the highest likelihood of meeting technical needs and works for the community.

Guidelines for new sites

We comply fully with all requirements for community notification and review, zoning and permitting.

Potential antenna locations must meet all local, state and federal regulations.

Verizon holds Federal Communications Commission (FCC) licenses for the frequencies utilized and we strictly follow their regulations.

Wireless facilities and property values.

Cell service in and around the home has emerged as a critical factor in home-buying decisions.

National studies demonstrate that most home buyers value good cell service over many other factors including the proximity of schools when purchasing a home.

75%

More than 75% of prospective home buyers said a good cellular connection was important to them.[1]

83%

The same study showed that 83% of Millennials (those born between 1982 and 2004) said cell service was the most important fact in purchasing a home.

90%

90% of U.S. households use wireless service. Citizens need access to 911 and reverse 911 and wireless may be their only connection.[2]

1. RootMetrics/Money, The Surprising Thing Home Buyers Care About More than Schools, June 2, 2015
2. CTIA, June 2015

Health and safety background.

Health and safety organizations worldwide have studied potential health effects of RF emissions for decades, and studies continue.

The Federal Communications Commission (FCC) guidelines for operating wireless networks are based on the recommendations of federal health and safety agencies including:

- The Environmental Protection Agency (EPA)
- The Food and Drug Administration (FDA)
- The National Institute for Occupational Safety and Health (NIOSH)
- The Occupational Safety and Health Administration (OSHA)
- The Institute of Electrical and Electronics Engineers (IEEE)
- The National Council on Radiation Protection and Measurements (NCRP)

Wireless technology, equipment and network operations are highly regulated.

For more information go to:
Federal Communications Commission: fcc.gov
Food and Drug Administration: fda.gov
World Health Organization: who.int
American Cancer Society: cancer.org

Hundreds
of times less

According to the FCC, measurements made near a typical 40 foot cell site have shown that groundlevel power densities are 1,000 times less than the FCC's limits for safe exposure.

Building a wireless network you can rely on in a crisis.

The reliability of your cell phone is never more important than when crisis strikes. That's when a simple call or text message can make the difference between life and death.

We build reliability into every aspect of our wireless network to keep customers connected when you need it most. Reliability starts when we choose the safest, most secure locations for our wireless equipment. The likelihood of earthquakes, and risk from wildfires, mudslides, floods, hurricanes and more are all considered. When disaster strikes, we coordinate with first responders and can mobilize charging stations, special equipment, emergency vehicles and more to support local, state and federal agencies in all 50 states.

80% 76% of 911 calls originate from a cell phone.[1]

240 240 million 911 calls are made annually. In many areas, 80% or more are from wireless devices.[1]

1. National Emergency Number Association, About and FAQ
2. EMS World, April 24, 2014

Wireless connectivity is critical in schools and communities.

Wireless is a critical component in schools and for today's students.

20k learning apps are available for iPads.

72% of iTunes top selling educational apps are designed for preschool and elementary students.

600+ school districts replaced text books with tablets in classrooms.

77% of parents think tablets are beneficial to kids.

74% of school administrators feel digital content increases student engagement.

70% of teens use cellphones to help with homework.

Source: CTIA's Infographics Today's Wireless Family, October 2017

Wireless is a critical component in today's medical fields.

Smart pill bottles and cases can help patients and their care-givers track medication usage, ensuring medications are taken on time and correctly. This supports increased medical compliance, provides more consistent care, and enables preventative care, keeping patients in their homes longer and reducing the number of emergency visits to the doctor's office or hospital.

Wireless connected glucose monitors, blood-pressure cuffs, and EKGs can track a patient's vital signs and catch an issue before it turns into an emergency.

Pace makers and sleep apnea monitors can be tracked remotely.

Routine eye exams can be conducted with a wireless device connected to a smart phone, bringing solutions and services to low-income and remote areas that would otherwise go unsupported.

Source: Verizon Innovation Center, February. 2018

Wireless is a critical component in today's communities.

Wireless smart city solutions are being used to track available parking and minimize pollution and wasted time.

These same solutions are being used to track pedestrian and bike traffic to help planning and minimize accidents.

Smart, wireless connected lighting enables cities to control lighting remotely, saving energy and reducing energy costs by 20%.

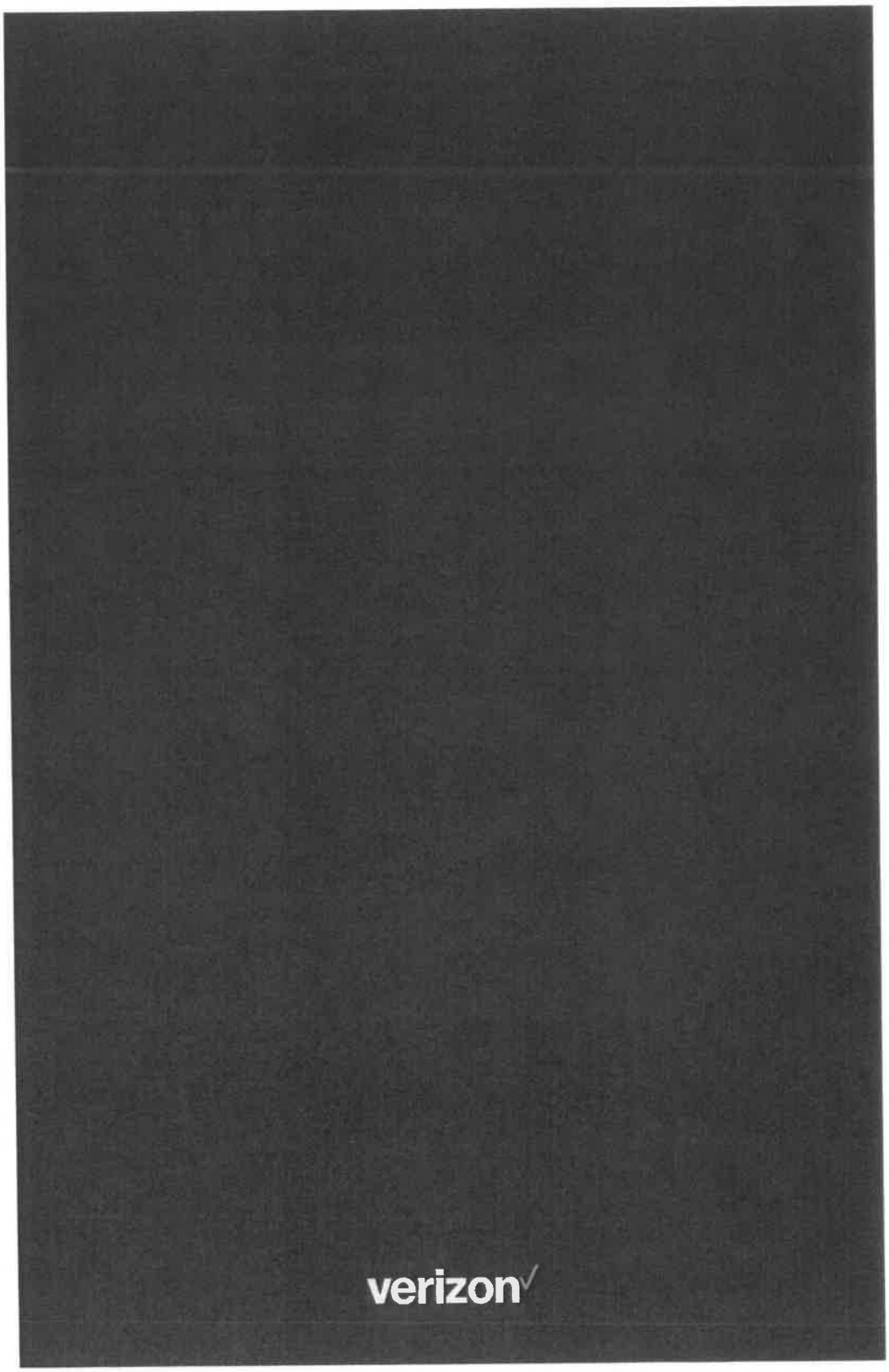
4G technology is utilized to track and plan vehicle deliveries to minimize travel, maximize efficiency, and minimize carbon footprint.

4G technology is also used to monitor building power usage down to the circuit level remotely, preventing energy waste and supporting predictive maintenance on machines and equipment.

Wireless sensors placed in shipments are being used to track temperature-sensitive medications, equipment, and food. This is important for preventing the spread of food-borne diseases that kill 3,000 Americans each year.

Source: Verizon Innovation Center, February. 2018

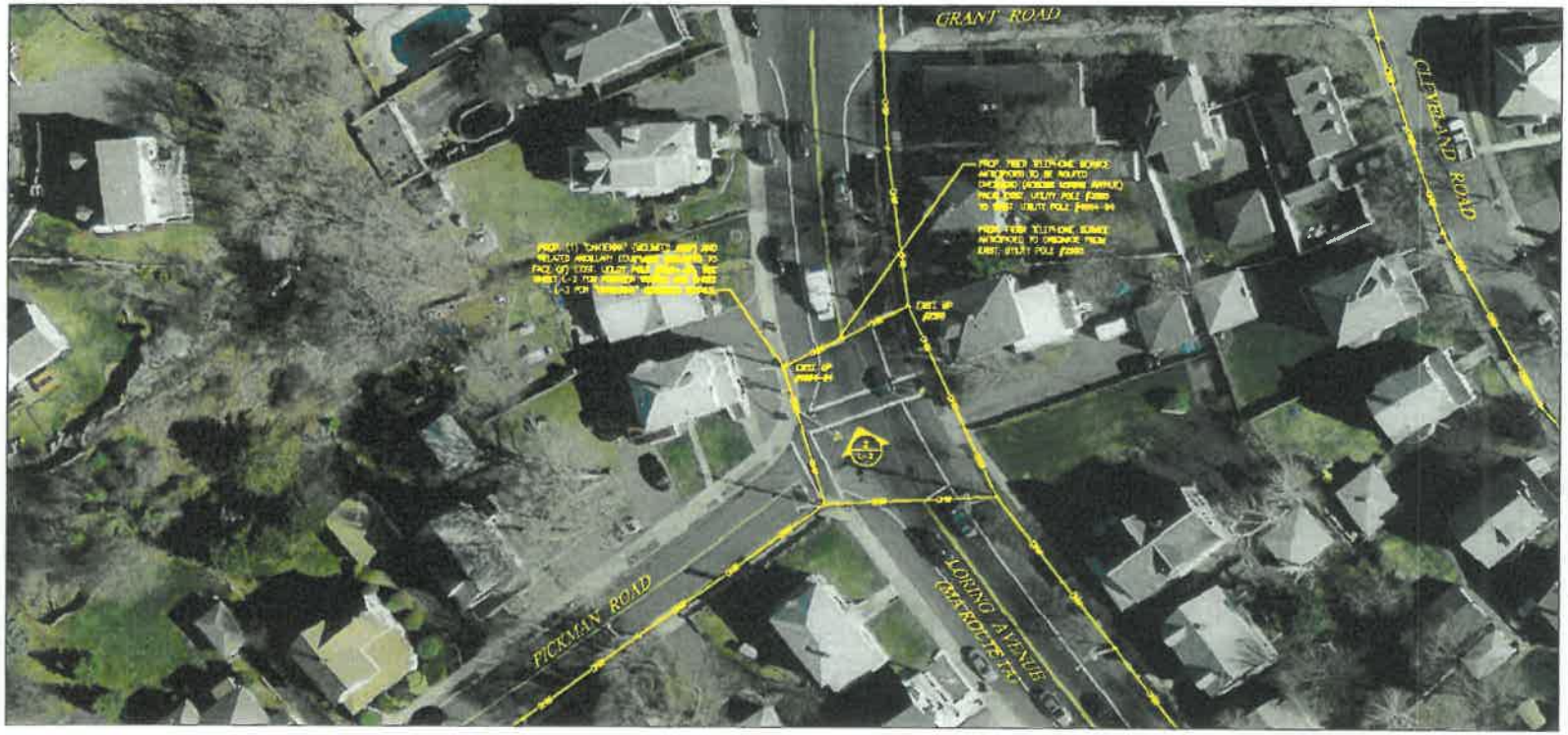

Verizon is part of your community.
Because we live and work there too.
We believe technology can help solve our biggest social problems. We're working with innovators, community leaders, non-profits, universities and our peers to address some of the unmet challenges in education, healthcare and energy management.
Learn more about our corporate social responsibility at www.verizon.com.
verizon


verizon

SALEM_SC15_MA

CLUSTER: SALEM MA

UTILITY POLE #4064-84 (N.G.)
198 LORING AVENUE (MA ROUTE 1A)
SALEM, MA 01970



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #4064-84
N 42.495641° (42°-29'-44.31")
W 70.885167° (70°-53'-42.60")
APPROXIMATE GROUND ELEVATION = 19'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 50' 100' 150'

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 DETAILS AND ONE-LINE DIAGRAM	0

verizon
"Becoming Better Matters"

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

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC15_MA
UTILITY POLE #4064-84 (N.G.)
198 LORING AVENUE
(MA ROUTE 1A)
SALEM, MA 01970

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

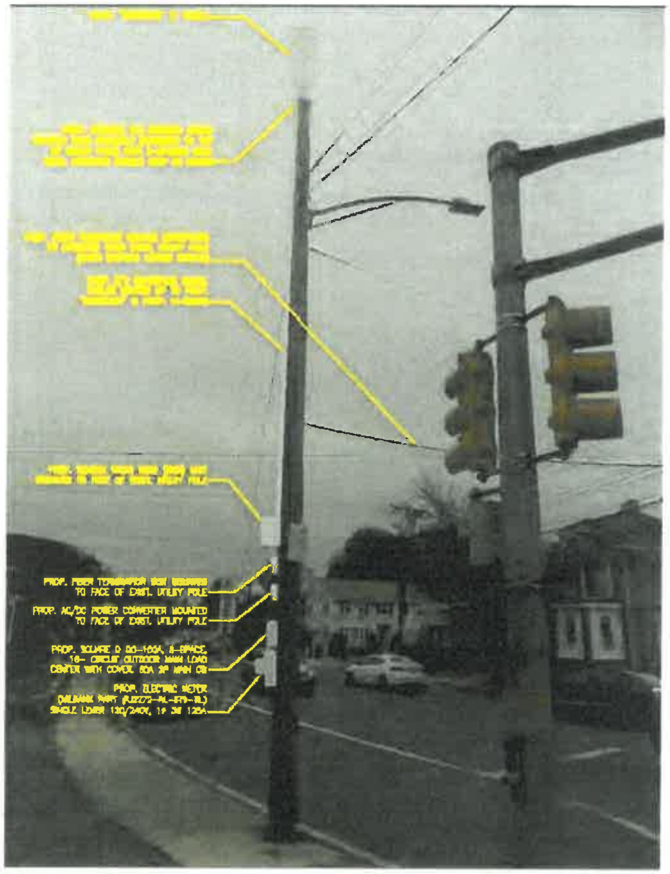
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

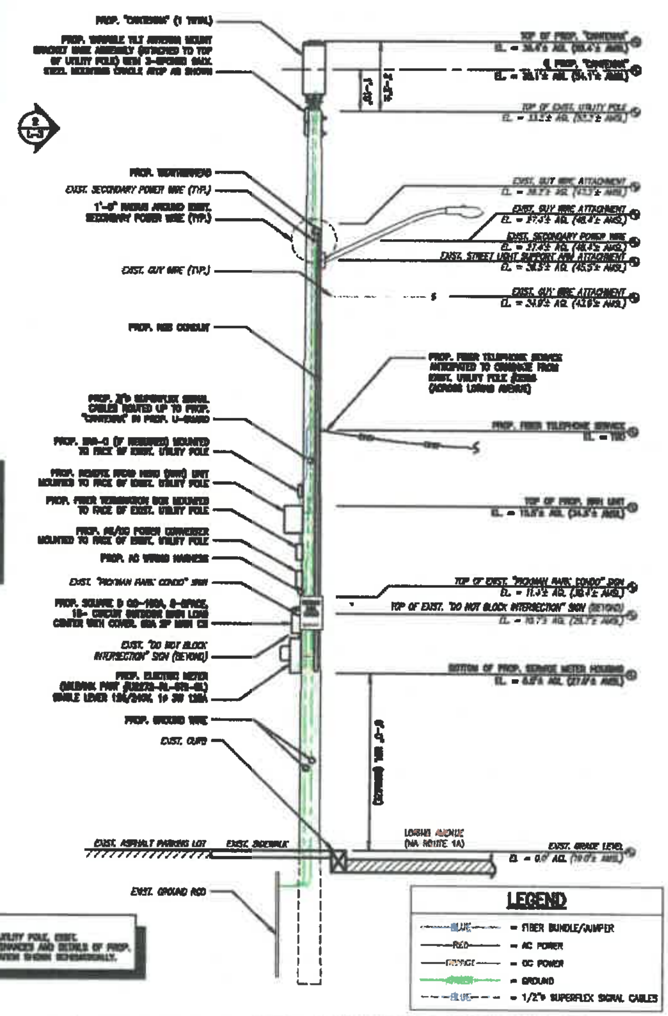
SCALE:	DRAWN BY:	REV NO.
AS SHOWN	CHECKED BY:	
VZ PROJECT NO.:	ORIGINAL ISSUE DATE:	
1480.311	10/30/19	

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION ON THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC PLACARDS ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP & 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 THUS, 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 EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE #4084-84 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING) 1 L-2
SCALE: NO SCALE



UTILITY POLE #4084-84 ELEVATION (PROPOSED CONDITIONS) 2 L-2
SCALE: 3/16" = 1'-0"
0 5'-4" 10'-8" 16'-0"

verizon
"Become Better Motive"

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(508) 481-7400
www.chappellengineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

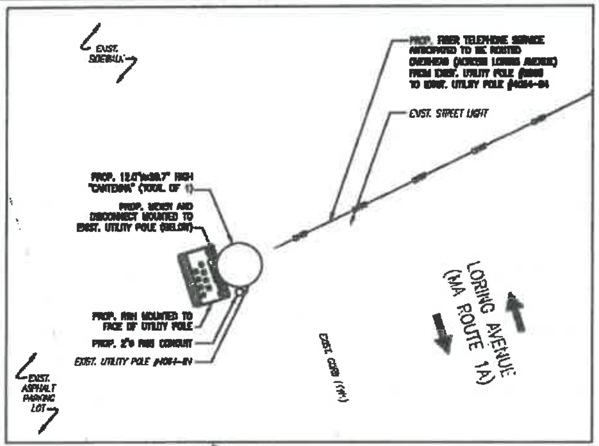
SITE NAME:
SALEM_SC15_MA
UTILITY POLE #4084-84 (N.G.)
198 LORING AVENUE
(MA ROUTE 1A)
SALEM, MA 01970

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN
CEA PROJECT NO: 1480.311
10/30/19



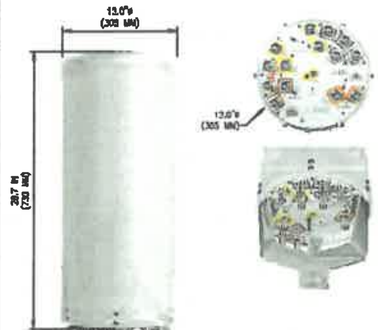
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

EQUIPMENT AND ANTENNA ORIENTATION PLAN (1 / L-3)

SCALE: 3/8" = 1'-0"

0 2'-8" 5'-4" 8'-0"

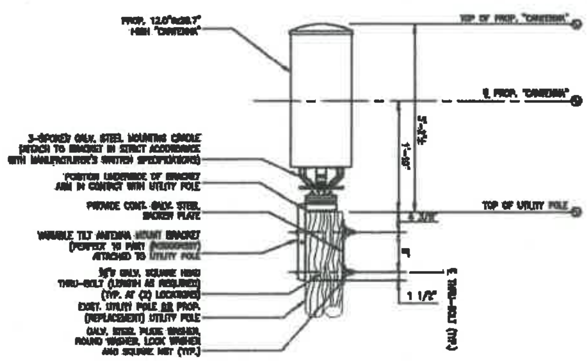
NOTES:
1.) CONFIRM CONDUIT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



SMALL CELL "CANTENNA"	
DIMENSIONS:	13.0"ø x 28.7"
WEIGHT:	28.7 LBS
QUANTITY:	TOTAL OF 1

TYPICAL "CANTENNA" SPECIFICATIONS (3 / L-3)

SCALE: N.T.S.



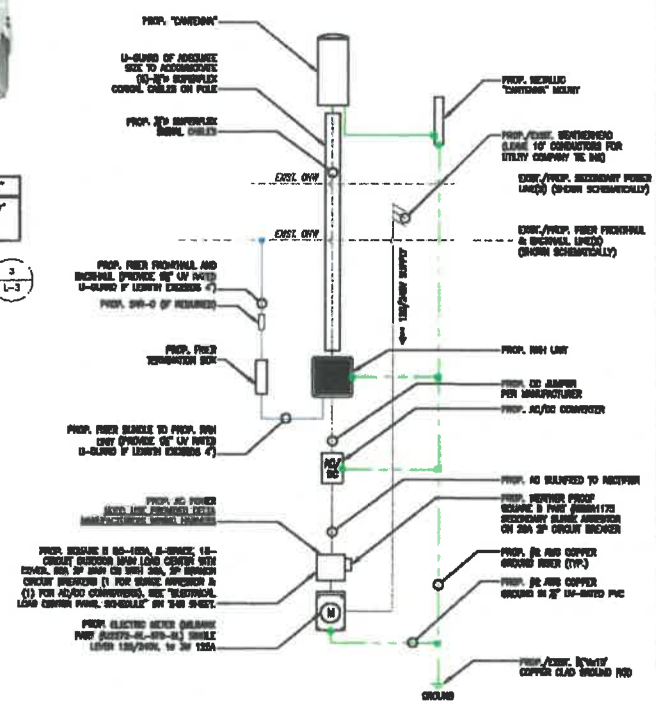
"CANTENNA" MOUNT DETAIL (2 / L-3)

SCALE: 1/2" = 1'-0"

PCS-AWS (1900/2100 MHz) REMOTE RADIO HEAD UNIT	
DIMENSIONS:	13.0"H x 15.0"W x 10.0"D
WEIGHT:	84.4 LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (4 / L-3)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:
1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.
2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE	= 1/2"ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRICAL ONE-LINE DIAGRAM (5 / L-3)

SCALE: N.T.S.

verizon

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC15_MA
UTILITY POLE #4084-84 (N.G.)
198 LORING AVENUE
(MA ROUTE 1A)
SALEM, MA 01970

DRAWING TITLE:
ANTENNA & ANCILLARY EQUIPMENT DETAILS AND ONE-LINE DIAGRAM

DRAWING NO:
L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN
CEA PROJECT NO: 1460.311
DATE: 10/30/19

Ilene Simons

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Tuesday, May 12, 2020 11:12 AM
To: Ilene Simons
Cc: Maureen Fisher
Subject: RE: Verizon Wireless Continued Small Cell Petitions

Hi Ilene,

Good morning. As it relates to the 2 continued Verizon Wireless petitions for grant of location (198 Loring Avenue and 28 Raymond Road) scheduled for review at the City Council's May 14th regularly scheduled meeting. Verizon Wireless respectfully requests that the City Council further continue both petitions until the City Council's next scheduled meeting on **May 28, 2020**.

I would greatly appreciate confirmation that this email is sufficient to request the continuance or if you need me to provide correspondence. I understand that it will not be necessary to have a representative attend the City Council virtual meeting on May 14th.

I would appreciate confirmation of receipt of this email.

Verizon Wireless looks forward to continuing to work with the City Council concerning the matters that were discussed at the virtual public hearing.

Best regards, Dan

Daniel D. Klasnick, Esq.
Duval & Klasnick LLC
Counselors at Law
210 Broadway Street, Suite 203
Lynnfield, MA 01940
dklasnick@dkt-legal.com
Direct Dial: (781) 873-0021
Mobile: (774) 249-2814
www.dkt-legal.com

ORDER FOR POLE ATTACHMENT

In the City of Salem, 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 is granted a location for and permission to attach equipment to an existing utility pole, including the necessary sustaining and protecting fixtures as said company may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Company dated the ___ day of _____, 2020.

All construction under this order shall be in accordance with the following conditions:

Equipment shall be installed as indicated upon the plan marked - Site ID: SALEM_SC15_MA, 198 Loring Avenue, Salem, MA 01970, dated October 30, 2019 and filed with this order.

The following are the public ways or part of ways along which the above referred attachment may be installed thereon under this order:

Cellco Partnership d/b/a Verizon Wireless proposes to attach equipment to an existing utility pole #4064-84, in the right of way near the property line of 198 Loring Avenue with location as shown on the plan attached.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Salem, Massachusetts held on the ____ day of _____, 2020., with the following conditions set below. *

Received and entered in the records of location orders of the City of Salem Book _____, Page _____.

Attest: _____
City Clerk

*

SALEM_SC15_MA

ROUTING SLIP

Telecommunications Attachments in the Public Right of Way

Pursuant to the Code of Ordinances, Sections 12-86 through 12-200, each applicant who seeks access to the public right of way for telecommunications purposes must submit a petition and plans along with a $500 application fee to the Electrical Department. Once the City Electrician has signed off, please circulate to the Departments listed on the reverse side of this Routing Slip for signature and return it to the City Clerk's Office prior to the petition being placed on the City Council Agenda for a grant of location pursuant to MGL Chapter 166, Section 22.

Right of Way Location Requested: 198 LORING AVE / 42.495641, -70.895167

Application Fee Received: Yes ☑ **Check No.** 6422 **Date:** 2/27/20

City Electrician Approval: John J Gerardi

BUSINESS NAME

Corporate name: VERIZON WIRELESS

d/b/a:

Address: 118 FLANDERS RD. 3RD FLOOR WESTBOROUGH, MA. 01581 **Tele. #**

CONTACT: BRYAN SARCHI / AGENT W/ KIROSMITH DEVELOPMENT

Street: 318 WEST AVE **Tele. #** 980-734-4970

City: SARATOGA SPRINGS **State:** NY **Zip:** 12866

Email Address: BSARCHI@KIROSMITHDEVELOPMENT.COM

Pole Ownership

✓ **To be attached to utility-owned pole** ___ **To be attached to City-owned pole**

✓ **Pole Attachment Agreement attached*** ___ **Pole Attachment Agreement to follow***

***All grants of location for telecommunications attachments to poles are conditioned upon evidence of a valid pole attachment agreement.**

Conduits

Will the attachment also require a conduit? ✓ **Yes** ___ **No**

TO ALL CITY DEPARTMENTS: By signing this slip you are only acknowledging that the applicant has made your department aware of its plans. All grants of location will be conditioned upon compliance with all departmental requirements and require a vote of the City Council after a public hearing. Please attach comments on separate sheet.

JM Daniel note his cover letter 3/11/2020
Planning Department DATE
City Hall Annex, 98 Washington Street

Please see comment letter 3/10/20
Salem Historical Commission DATE
City Hall Annex, 98 Washington Street

3/30/2020
Legal Department DATE
City Hall, 93 Washington Street

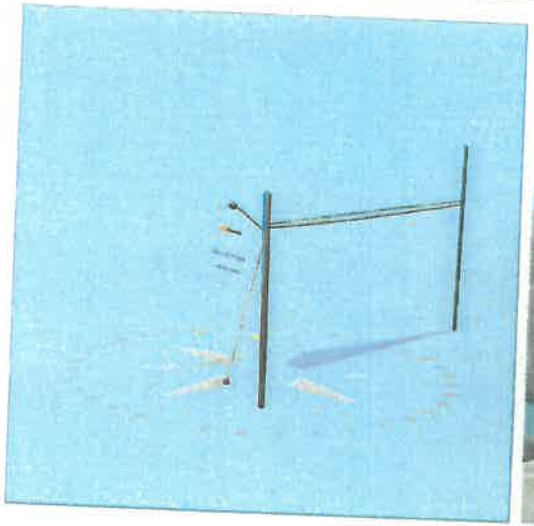
See attached memo. 3/30/2020
Engineering Department DATE
City Hall Annex, 98 Washington Street

3/27/2020
Office of Information Technology DATE
29 Highland Avenue

RETURN ROUTING SLIP, ANY COMMENTS, PETITION, PLANS, ABUTTER LABELS, AND PROPOSED ORDER TO CITY CLERK'S OFFICE, CITY HALL, 93 WASHINGTON STREET WHEN COMPLETE SO THAT IT MAY BE PLACED ON THE COUNCIL'S AGENDA.

O-Calc® Pro *Analysis Report*

Pole Num:	4064	Pole Length / Class:	40 / 1	Code:	NESC	Structure Type:	Deadend
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.22	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	40.91	Loading District:	Heavy	Transverse Wind LF:	1.75
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.50	Wire Tension LF:	1.30
Aux Data 5	Unset	Allowable Stress (psi):	6,800	Wind Speed (mph):	39.53	Vertical LF:	1.90
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.00		
Latitude:	0.000000 Deg	Longitude:			0.000000 Deg	Elevation:	0 Feet



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	7.1	0.0	278.6
Groundline	7.1	0.0	278.6
Vertical	0.9	21.7	270.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	8,019	301.8	278.6
Groundline	8,019	301.8	278.6
GL Allowable	122,826		

Guy System Component Summary

Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Load From Worst Wind Angle on Pole		Individual Maximum Load With Overload Applied	
				Nominal Capacity (%)	Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)
Single Helix Anchor				8.6	278.6	10.9	0.0
12.5M (Down)	9.0	180.0	26.6	15.3	278.6	19.4	0.0
Stub Pole				0.0	278.6	0.0	0.0
12.5M (Span/Head)	57.0	0.0	28.1	0.0	278.6	0.0	0.0
			System Capacity Summary:	Adequate		Adequate	

* Includes Load Factor(s)

[2] Worst Wind Per Guy Wire

[3] Wind At 278.6°

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 301.8°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	406	108.7	9,685	120.8	7.9	616	49	0	617	9.1
GuyBraces	-250	-66.9	-5,757	-71.8	-4.7	-366	2,497	19	-348	-5.1
Pole	196	52.3	2,941	36.7	2.4	187	2,487	19	206	3.0
Streetlights	22	5.8	1,145	14.3	0.9	73	142	1	74	1.1
Insulators	0	0.1	5	0.1	0.0	0	2	0	0	0.0
Pole Load	374	100.0	8,019	100.0	6.5	510	5,177	39	549	8.1
Pole Reserve Capacity			114,807		93.5	6,290			6,251	91.9

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 301.8°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
NGrid	156	41.8	3,933	49.1	3.2	250	2,548	19	269	4.0
Pole	196	52.3	2,941	36.7	2.4	187	2,487	19	206	3.0
Municipal	22	5.8	1,145	14.3	0.9	73	142	1	74	1.1
Totals:	374	100.0	8,019	100.0	6.5	510	5,177	39	549	8.1

Detailed Load Components:

Power

		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Secondary	TRIPLEX 4 AWG	NGrid	27.47	6.96	0.6800	0.63	0.164	57.0	0.0	57.0	558	10,514	-24	644	11,135
											Totals:	**10,514**	**-24**	**644**	**11,135**

Streetlight

		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
General	Streetlight - 8 ft. Arm	Municipal	26.22	4.79	270.0	270.0	75.00	48.00	20.00	3.00	96.00	745	571	1,317
											Totals:	**745**	**571**	**1,317**

Insulator

		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Spool	Spool Insulator	NGrid	27.47	0.00	90.0	0.0	1.00	2.50	2.12	-1	7	6
									Totals:	**-1**	**7**	**6**

Guy Wire and Brace		Owner	Attach Height (ft)	End Height (ft)	Lead/Span Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)
12.5M	Down	NGrid	26.59	0.00	9.00	0.343	100.00	180.0	71.0	0.208	32.42	0.32
12.5M	Span/Head	NGrid	28.10	28.10	57.00	0.343	75.00	0.0	0.0	0.208	54.45	0.00

Guy Wire and Brace (Loads and Reactions)		Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension*[2] (lbs)	Maximum Tension[2] (lbs)	Applied Tension[3] (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL[3] (ft-lb)
12.5M	Down	2.30e+7	12,500	0.90	11,250	700	2,180	1,982	1,723	1,630	561	-296	-7,161
12.5M	Span/Head	2.30e+7	12,500	0.90	11,250	700	0	0	0	0	0	0	543
									Totals:	1,630	561	-296	-6,618

Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load[2] (lbs)	Load at Pole MCU[3] (lbs)	Max Required Capacity[2] (%)
Single Helix Anchor	NGrid	18.00	9.00	180.0	20,000	1.00	20,000	2,180	1,723	10.9
Stub Pole	NGrid	30.00	57.00	0.0	20,000	1.00	20,000	0	0	0.0

Pole Buckling

Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
0.71	21.68	33.27	12.08	4.05	8.60	13.03	2.13e+6	60.00	57.00	33.78	550,960	5752.67	111.11

verizon

2/7/202020
To: City of Salem
Transmitted via email
RE: Verizon Wireless Small Cell Sites

Dear City of Salem,

Verizon is installing 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.

Thank you for your inquiry. 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.

You also expressed concerns about the health effects of RF emissions from Verizon's network equipment. 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 must comply 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 towers on the FCC's website, which you can access via this link: http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

Thank you for reaching out to us regarding your concerns. We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional questions.

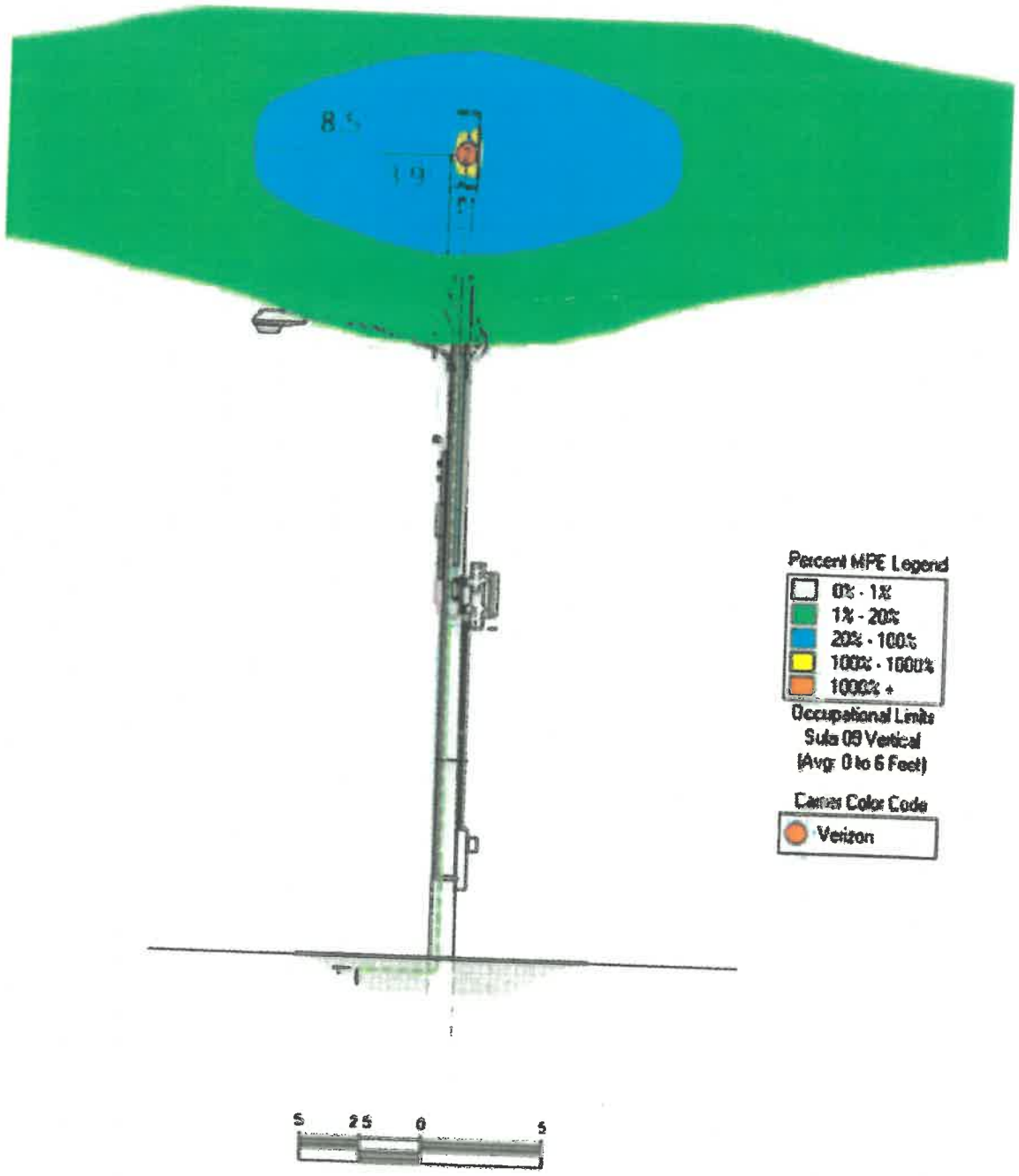
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

Sincerely,

Michael Creamer
Sr 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 this facility. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.



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

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:

⇒ **Maintaining** all necessary wireless licensee contact information.

⇒ **Enforcing** restricted access (help maintain a Controlled Environment). **Ensuring** all building/maintenance personnel are aware that the potential for exposure exists, and follow all appropriate entry and safety procedures.

⇒ **Notifying** all licensees when any non-carrier requests access to any area with antennas at least 24 hours in advance.

⇒ **Understanding** 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.

For General RF Safety & Awareness Questions

Verizon Wireless

E-mail: VZWRFCompliance@vzw.com

E-mail Subject: "ATTN: RF Compliance"

In The Event That Emergency Maintenance is Required

24-Hour Network Operations Center:

1-800-264-6620

RF Safety & Awareness Training Contacts

Dtech Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

SiteSafe

(chagley@sitesafe.com)

Waterford Consultants

Sbaier-anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions

SAFETY & AWARENESS

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. The following represents an overview of the most applicable information:

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 have 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** (lock doors/ladders)
- **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.

Compliance Materials

Notification Signage

(Notice) RF Guidelines - Informs viewer of the basic safety guidelines for working in an RF Environment.

Information-- Provides relevant contact information for any questions or requests.

(Blue) Notice - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.

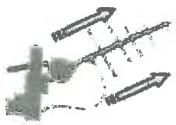
(Yellow) Caution - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.

(Red) Warning - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

Indicative Barriers

In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. **Examples of Indicative Barrier Materials:** plastic chains, buckets, reflective paint or plastic cones, fiberglass fences, and poles mounted in cinderblocks.

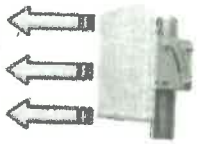
Antenna Safety

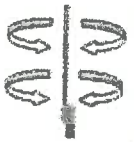


Antenna Types

Yagi - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**

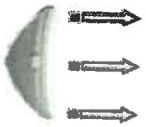
Panel - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**





Whip - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**

Microwave - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**



When In An Environment With Antennas:

⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.

⇒ Never touch an antenna. Assume all are active.

⇒ Read and obey ALL signs on an access point.

⇒ Read and obey ALL signs in the environment with antennas.

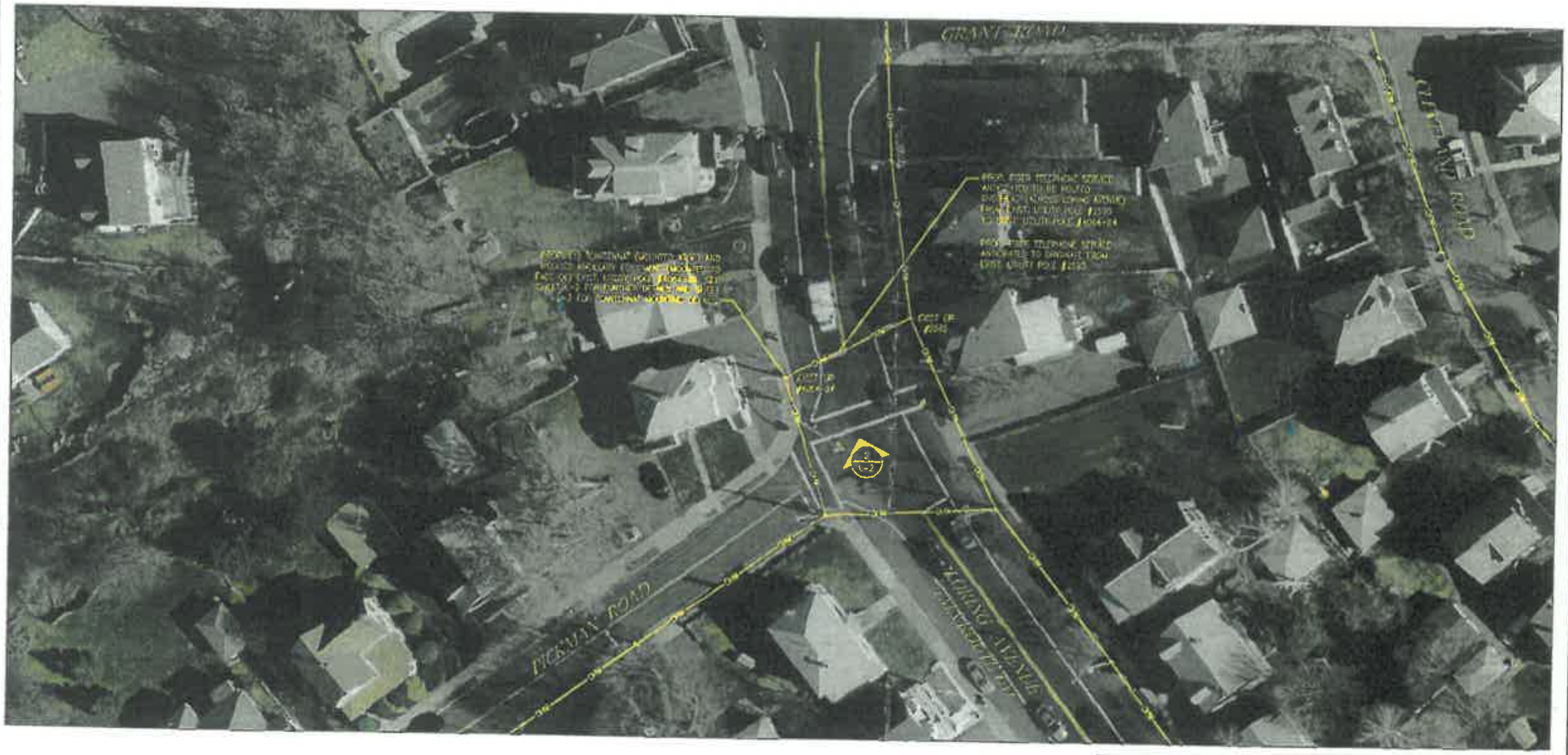
⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.

⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.

⇒ Contact all wireless licensees at least 24 hours in advance of scheduled maintenance.

SALEM_SC15_MA
CLUSTER: SALEM MA

UTILITY POLE #4064-84 (N.G.)
198 LORING AVENUE (MA ROUTE 1A)
SALEM, MA 01970



SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #4064-84
N 42.495641° (42°-29'-44.31")
W 70.895167° (70°-53'-42.60")
APPROXIMATE GROUND ELEVATION – 19'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 50' 100' 150'

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 DETAILS AND ONE-LINE DIAGRAM	0

verizon
"Because Better Matters"

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

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC15_MA
UTILITY POLE #4064-84 (N.G.)
198 LORING AVENUE
(MA ROUTE 1A)
SALEM, MA 01970

DRAWING TITLE:
LOCATION PLAN/
AERIAL IMAGE

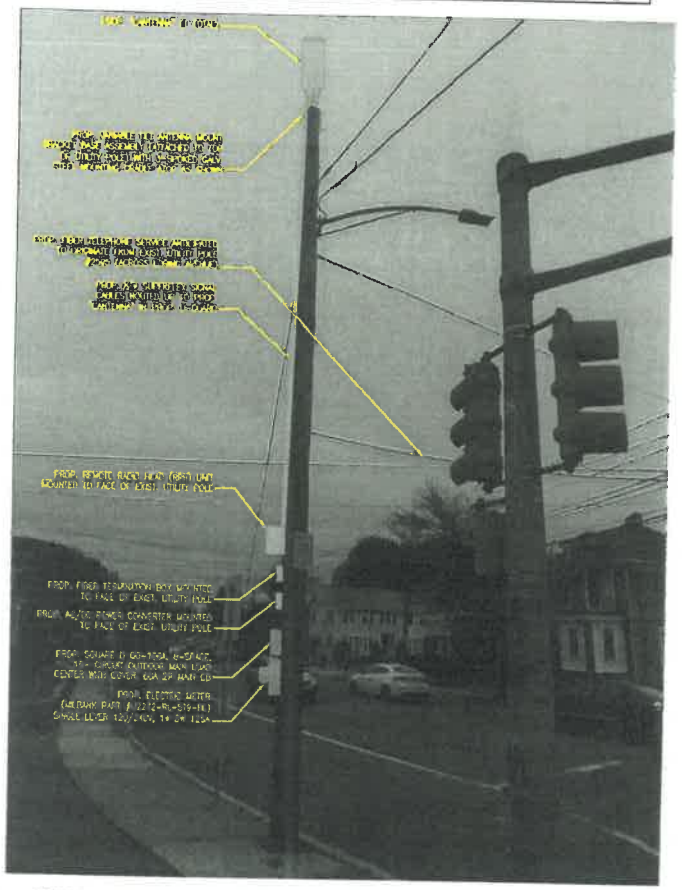
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN
CEA PROJECT NO.: 1460.311
10/30/19
389483

GENERAL NOTES:

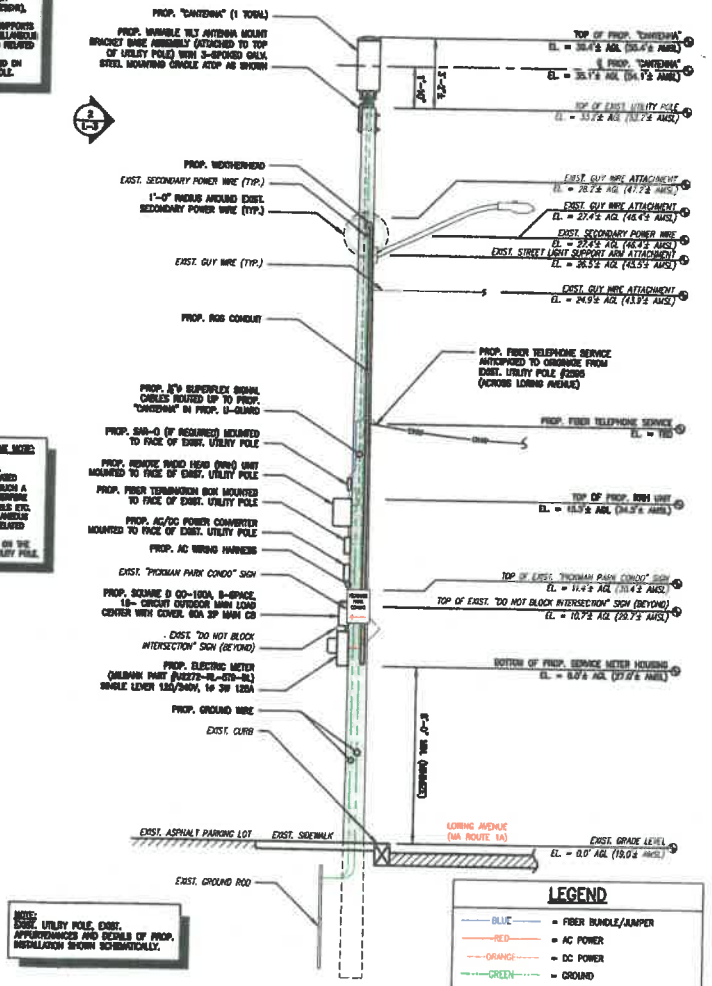
1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION ON THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC PLACARDS ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP & 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 THUS, 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 EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE #4064-84 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING) (1 / L-2)
SCALE: NO SCALE

ANTENNA AND MOUNT NOTE: CONTRACTOR SHALL POSITION/ROUTE PROP. ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXIST. STREET LIGHT, PRIMARY POWER CROSSARMS(S) OF PHASING, BRACKETS, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE EXIST. UTILITY POLE.

EQUIPMENT AND MOUNT NOTE: CONTRACTOR SHALL POSITION/ROUTE PROP. EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXIST. WIRES/CABLES ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXIST. UTILITY POLE.



NOTE: EXIST. UTILITY POLE, EXIST. APPURTENANCES AND DETAILS OF PROP. INSTALLATION SHOWN SCHEMATICALLY.

LEGEND

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

UTILITY POLE #4064-84 ELEVATION (PROPOSED CONDITIONS) (2 / L-2)
SCALE: 3/16" = 1'-0"
0 5'-4" 10'-8" 16'-0"

verizon
"Because Better Matters"

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
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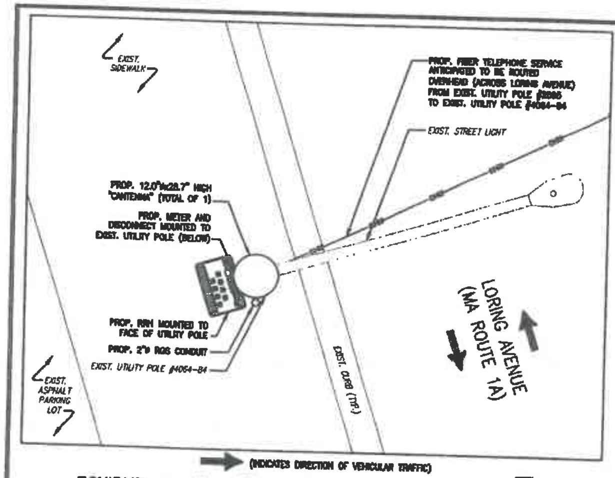
UTILITY POLE #4064-84 (N.G.)
198 LORING AVENUE
(MA ROUTE 1A)
SALEM, MA 01970

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN	DESIGNED BY: MW / DRAWN BY: DMC / CHECKED BY: MW	NEW LOCATION CODE: 388483
ERI PROJECT NO.: 1460.311	ORIGINAL ISSUE DATE: 10/30/19	



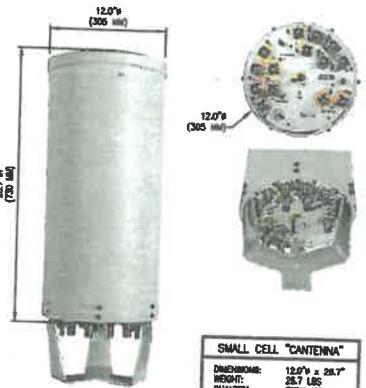
(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

EQUIPMENT AND ANTENNA ORIENTATION PLAN (1 / L-3)

SCALE: 3/8" = 1'-0"

0 2'-8" 5'-4" 8'-0"

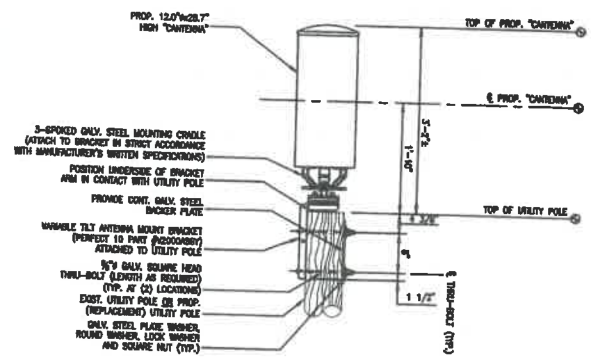
NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



SMALL CELL "CANTENNA"	
DIMENSIONS:	12.0"⌀ x 28.7"
WEIGHT:	28.7 LBS
QUANTITY:	TOTAL OF 1

TYPICAL "CANTENNA" SPECIFICATIONS (3 / L-3)

SCALE: N.T.S.



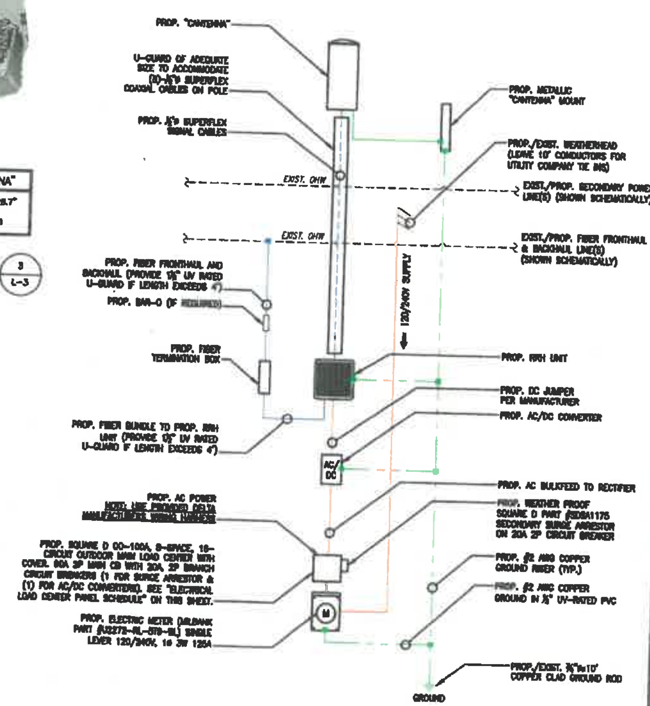
"CANTENNA" MOUNT DETAIL (2 / L-3)

SCALE: 1/2" = 1'-0"

PCS–AWS (1900/2100 MHz) REMOTE RADIO HEAD UNIT	
DIMENSIONS:	15.0"H x 15.0"W x 10.0"D
WEIGHT:	84.4 LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (4 / L-3)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:
1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.
2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

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

FIBER/ELECTRICAL ONE-LINE DIAGRAM (5 / L-3)

SCALE: N.T.S.

verizon
" Because Better Matters "

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

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC15_MA
UTILITY POLE #4064-84 (N.G.)
198 LORING AVENUE
(MA ROUTE 1A)
SALEM, MA 01970

DRAWING TITLE:
ANTENNA & ANCILLARY EQUIPMENT DETAILS AND ONE-LINE DIAGRAM

DRAWING NO:
L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE		
AS SHOWN		
CEA PROJECT NO.: 1460.311	10/30/19	306483

Salem
Abutters List

Subject Parcel ID: ***b***

Subject Property Location:

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
31-0014-0	202 LORING AVENUE	FARNSWORTH KELLY/TURNER R	DEYOUNG PHYLLIS A	202 LORING AVE	SALEM	MA	01970
31-0030-0	4 PICKMAN ROAD	GUY STEVEN G	CHERYL A	4 PICKMAN RD	SALEM	MA	01970
31-0031-0	198 LORING AVENUE	FABIANO JOSEPH	GUY JENNIFER	28 BOXFORD ROAD	TOPSFIELD	MA	01983
31-0032-0	196 LORING AVENUE	BRIDGMAN & BRIDGMAN, LLC		85 MARLBOROUGH ROAD	SALEM	MA	01970

Parcel Count: **4**

End of Report

Ilene Simons 28 Raymond Rd

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Tuesday, May 19, 2020 2:05 PM
To: Ilene Simons
Cc: Maureen Fisher
Subject: Verizon Wireless Continued Small Cell Petitions
Attachments: City Council Further Supplemental Submission - Verizon Wireless.pdf

Hi Ilene,

Good Afternoon. In further support of its continued small cell petitions, Verizon Wireless is providing a further supplement to its initial filing.

My client would respectfully request that the attachment be entered into the City Council record. If you would like me to send hard copies of the attachment, please just let me know.

As it relates to the attendees at the upcoming City Council meeting on May 28th, Verizon Wireless respectfully provides the following list:

sean.conway@verizonwireless.com
aarmstrong@airosmithdevelopment.com
ramzi.farchoukh@verizonwireless.com
dklasnick@dkt-legal.com

I greatly appreciate your attention to this matter. Please don't hesitate to contact me with any questions. Have a great day!

Best regards, Dan

Daniel D. Klasnick, Esq.
Duval & Klasnick LLC
Counselors at Law
210 Broadway Street, Suite 203
Lynnfield, MA 01940
dklasnick@dkt-legal.com
Direct Dial: (781) 873-0021
Mobile: (774) 249-2814
www.dkt-legal.com

Please consider the environment before printing this e-mail.

DUVAL & KLASNICK LLC
COUNSELORS AT LAW

OUR EXPERTISE. YOUR FUTURE. SUCCEEDING TOGETHER.®

Daniel D. Klasnick
Licensed in Massachusetts and New Hampshire
dklasnick@dkt-legal.com

May 19, 2020

City Council
Salem City Hall
93 Washington Street
Salem, Massachusetts 01970

Re: Applicant: Cellco Partnership d/b/a Verizon Wireless
Continued Grant of Location Petitions to Install Small Cell Equipment

Dear Council President McCarthy:

Verizon Wireless is providing the enclosed supplemental Alternative Pole Analysis dated May 18, 2020 for the proposed small cell utility pole installations on Raymond Road (Salem_SC13_MA) and Loring Avenue (Salem_SC15_MA).

The attachment is a further supplement to the previously filed Alternative Pole Analysis dated May 6, 2020 and specifically addresses the request to consider additional alternative pole locations.

Verizon Wireless looks forward to meeting virtually with the City Council and continuing the presentation of its petitions. Should you require any additional information, please don't hesitate to contact me.

Thank you very much for your cooperation.

Very truly yours,
DUVAL & KLASNICK LLC

By: Daniel D. Klasnick
Attorney at Law

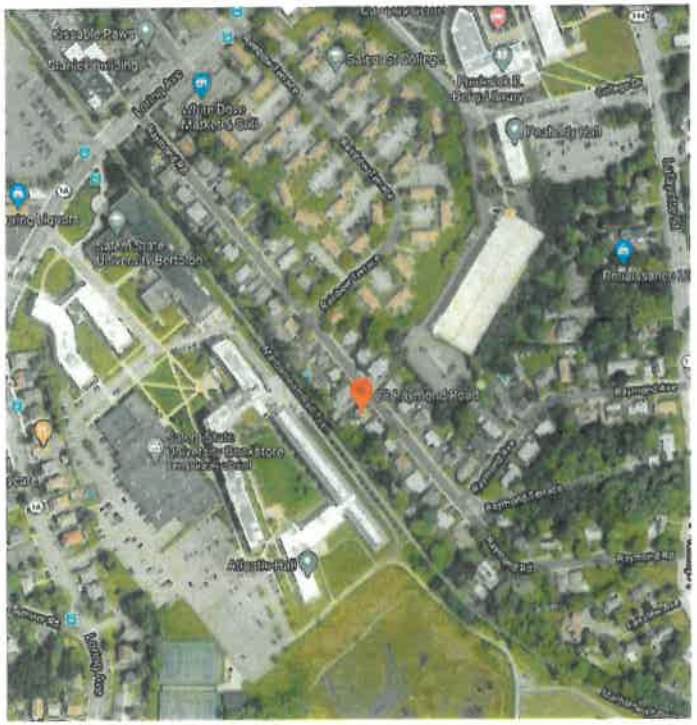
Salem Alternative Pole Analysis

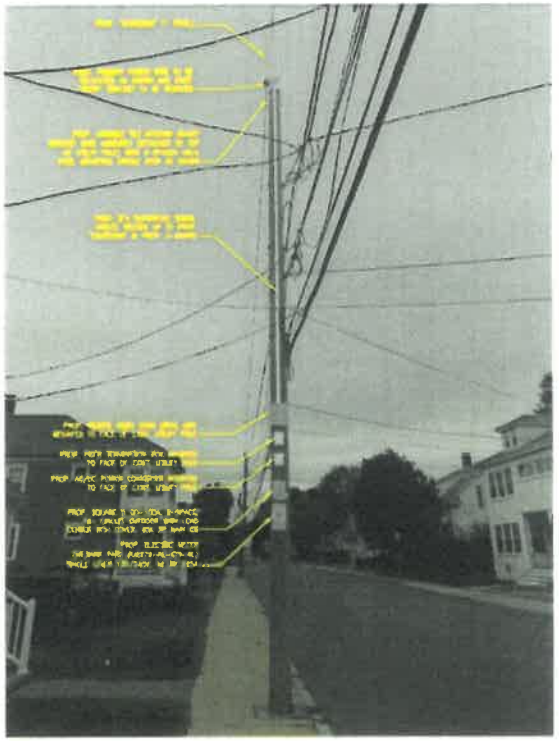
May 18, 2020

verizon

SALEM_SC13_MA

28 Raymond Road





SALEM_SC13_MA	28 Raymond Road	Pole 3412 - 132/10	Pole is 23' from Residence
Pole #	Closest Address	Reason for Candidate Disqualification	
694	24 Raymond Road	Power risers to Speed Sign	North from 28 Raymond
3358	22/20 Raymond Road	Transformer	
3357	18/16 Raymond Road	Utility Compliant, House 22' from nearest residence	
3473	32 Raymond Road	Utility Compliant, 17' from residence	South from 28 Raymond
3466	36 Raymond Road	Transformer	
3467	40 Raymond Road	Fire Alram	

verizon

RF Analysis

RF Solution

- Offload Salem_4_MA macro site
- Centrally located between Central campus and North campus of Salem state university
- Capacity solution for homes in the area

verizon

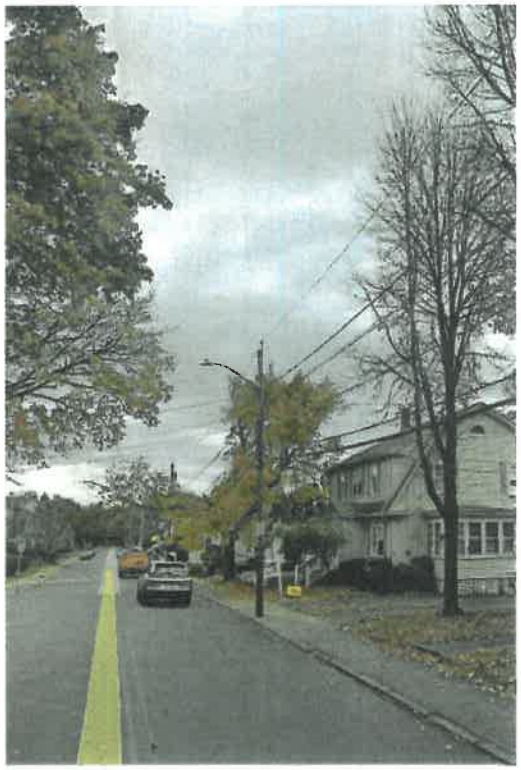
Alternative candidates to the North

24 Raymond Road- Pole 694

Power risers to Speed Sign

22/20 Raymond Ave- Pole 3358

Transformer



18/16 Raymond Road – Pole 3357

Utility Compliant, 22' from nearest residence
Heavy foliage would affect overall RF effectiveness

verizon

Alternative candidates to the South

32 Raymond Road – Pole 34X3

Utility Compliant, 17' from residence
Nearby foliage effects full RF capability

verizon

36 Raymond Road – Pole 3466

Transformer

40 Raymond Road – Pole 3467

Junction Pole, Fire Alarm

Alternative candidates – Transmission Lines

These are poles with sub-transmission circuit that is 23kV. This makes all the transmission poles along the Salem Bike Path unusable

17.6 **15kV MAXIMUM DISTRIBUTION WOOD POLE MOUNTED METERED POWER SUPPLY AND ANTENNA INSTALLATIONS**

17.6.10 **Application**

This Section covers installation details for distribution wood pole mounted, metered, secondary service to power supplies and antenna communication equipment on poles with 15kV maximum voltage equipment on pole.

verizon

Thank You

verizon

Ilene Simons

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Tuesday, May 12, 2020 11:12 AM
To: Ilene Simons
Cc: Maureen Fisher
Subject: RE: Verizon Wireless Continued Small Cell Petitions

Hi Ilene,

Good morning. As it relates to the 2 continued Verizon Wireless petitions for grant of location (198 Loring Avenue and 28 Raymond Road) scheduled for review at the City Council's May 14th regularly scheduled meeting. Verizon Wireless respectfully requests that the City Council further continue both petitions until the City Council's next scheduled meeting on **May 28, 2020**.

I would greatly appreciate confirmation that this email is sufficient to request the continuance or if you need me to provide correspondence. I understand that it will not be necessary to have a representative attend the City Council virtual meeting on May 14th.

I would appreciate confirmation of receipt of this email.

Verizon Wireless looks forward to continuing to work with the City Council concerning the matters that were discussed at the virtual public hearing.

Best regards, Dan

Daniel D. Klasnick, Esq.
Duval & Klasnick LLC
Counselors at Law
210 Broadway Street, Suite 203
Lynnfield, MA 01940
dklasnick@dkt-legal.com
Direct Dial: (781) 873-0021
Mobile: (774) 249-2814
www.dkt-legal.com

Please consider the environment before printing this e-mail.

Ilene Simons

From: Dan Klasnick <dklasnick@dkt-legal.com>
Sent: Monday, May 11, 2020 10:16 AM
To: Ilene Simons
Cc: Maureen Fisher
Subject: Verizon Wireless Continued Small Cell Petitions
Attachments: City Council Submission - Verizon Wireless Salem SC.pdf

Hi Ilene,

Good morning. I hope you had a nice weekend. In further support and consistent with our discussion with the City Council at the April 23rd meeting, Verizon Wireless is providing a further supplement to its initial filing. Verizon Wireless is providing documentation to further support its due diligence site selection by providing an Alternative Pole Analysis and RF Affidavit related to the proposal to install small cell equipment on the utility poles in the right of way adjacent to the properties at 198 Loring Avenue and 28 Raymond Road. I have also included correspondence to the City Council to further outline compliance with the permitting standards.

My client would respectfully request that the attachments be entered into the City Council record. If you would like me to send hard copies of the attachments, please just let me know.

As it relates to the attendees at the upcoming City Council meeting on May 14th, Verizon Wireless respectfully provides the following list:

sean.conway@verizonwireless.com
aarmstrong@airosmithdevelopment.com
ramzi.farchoukh@verizonwireless.com
dklasnick@dkt-legal.com

I greatly appreciate your attention to this matter. Please don't hesitate to contact me with any questions. Have a great day!

Best regards, Dan

Daniel D. Klasnick, Esq.
Duval & Klasnick LLC
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Direct Dial: (781) 873-0021
Mobile: (774) 249-2814
www.dkt-legal.com

DUVAL & KLASNICK LLC
COUNSELORS AT LAW

OUR EXPERTISE. YOUR FUTURE. SUCCEEDING TOGETHER.®

Daniel D. Klasnick
Licensed in Massachusetts and New Hampshire
dklasnick@dkt-legal.com

May 6, 2020

City Council
Salem City Hall
93 Washington Street
Salem, Massachusetts 01970

Re: Applicant: Cellco Partnership d/b/a Verizon Wireless
Continued Grant of Location Petitions to Install Small Cell Equipment

Dear Council President McCarthy:

Cellco Partnership d/b/a Verizon Wireless has filed petitions to install small cell wireless equipment on utility poles located in the right of way in the City of Salem. At a duly noticed hearing on April 23, 2020, the City Council voted to continue two of the petitions for small cell utility pole installations on Raymond Road (Salem_SC13_MA) and Loring Avenue (Salem_SC15_MA).

In responding to the City Council's request, Verizon Wireless is providing the enclosed Alternative Pole Analysis, which is a supplemental filing to the February 26, 2020 petitions. While Verizon Wireless is statutorily entitled to nondiscriminatory access to any pole, duct, conduit or right-of-way, the availability of poles is limited by the standards imposed by the pole owner concerning insufficient capacity and for reasons of safety, reliability and generally applicable engineering purposes. These standards will generally preclude the installation of small cell equipment on poles that contain primary power lines, transformers or other critical utility infrastructure. Those requirements can significantly limit the availability of utility poles for the installation of small cell equipment. In addition to the criteria of the pole owner, the location must also satisfy Verizon Wireless' network requirements including consideration of radio frequency interference resulting from existing equipment installed on the pole. The Alternative Pole Analysis illustrates the factors that were considered and the review process that was undertaken to select the proposed locations for the small cell equipment installations.

To further support its petitions, Verizon Wireless is providing the enclosed Affidavit of Radio Frequency Engineer. The enclosed Affidavit of Radio Frequency Engineer was prepared by the engineer that has studied the proposed sites in relationship to the network design in the City of Salem. Based upon the review of the network, the engineer has provided a sworn statement certifying the need and suitability of the selected utility poles to address the targeted service

requirements in the City of Salem. As has been discussed in detail at the prior meeting, the objective of the proposed "small cell" installations on the utility poles is to address service requirements for Verizon Wireless customers and emergency responders within areas of Salem that are not adequately served by existing Verizon Wireless coverage from "macro" facilities on towers or other tall structures. The proposed small cell facilities will address the capacity service in the targeted area where this service is currently unavailable or unreliable because the signal is dissipated by the distance from the nearest macro facility, obstructed by the intervening terrain, or diverted by high demand closer to the macro facility.

Because Verizon Wireless is applying for approval for the installation of equipment that provides wireless services, the application is subject to §704 of the federal Telecommunications Act of 1996, codified at 47 U.S.C. §332(c)(7)(B) and 47 U.S.C. §253. The Federal Communications Commission in its Declaratory Ruling and Third Report and Order adopted on September 26, 2018 clarified that under Sections 253(a) or 332(c)(7)(B)(i)(II), "an effective prohibition [of service] occurs where a state or local legal requirement materially inhibits a provider's ability to engage in any of a variety of activities related to its provision of a covered service." By this ruling, the Commission clarified that it is an effective prohibition of the provision of wireless service if a state or local requirement prevents or constrains a provider "not only when filling a coverage gap but also when densifying a wireless network, introducing new services or otherwise improving service capabilities." The Commission further clarified that an effective prohibition includes inhibiting a provider from deploying the "performance characteristics" of its choosing.

The small cell installations on the utility poles will have minimal if any adverse visual impact on adjacent properties and neighborhoods. The courts have held that an aesthetic judgment may not "mask ... a *de facto* prohibition of personal wireless services" and must be "grounded in the specifics of the case."[1] Generalized concerns that would apply to any wireless service facility or aesthetic judgments that are "demonstrably without substance" do not amount to substantial evidence.[2] The Federal Communications Commission in its Declaratory Ruling and Third Report and Order further clarified that local aesthetic requirements are preempted, by Sections 253 and 332, if they are applied in a manner that is not reasonable, that is more burdensome than those applied to other types of similar infrastructure deployments and are not published in advance. This Commission ruling acknowledges the fact that undefined aesthetic standards makes it impossible for a provider to effectively deploy the necessary facilities. The proposed small cell facilities represent a minimally intrusive way to provide the needed service to the City.

To the extent that the regulation of the pole attachments may be motivated by concern about the radio frequency energy levels from the pole mounted antenna, this is an impermissible basis for regulation. Section 332(c)(7)(B)(iv) of the Telecommunications Act prohibits local government from regulating personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Federal Communications Commission's adopted regulations concerning such emissions. The proposed

[1] *Southwestern Bell Mobile Systems, Inc. v. Todd*, 244 F.3d 51, 61(1st Cir. 2001)
[2] *Id.*

Verizon Wireless small cell site will contain a single low powered antenna and will comply with applicable FCC regulations. As part of the petition package and as an enclosure to this supplemental filing, Verizon Wireless has provided confirmation that the radio frequency emissions of Verizon Wireless' proposed small cell installations will comply with FCC standards.

The availability of wireless communications service enhances community safety, and is increasingly relied upon by first responders, civil defense and other safety officers as well as the general public in times of crisis, natural disaster, bad storms or similar circumstances. Wireless communications service also provides a convenience to residents and is an essential feature and service to educational institutions and businesses. The proposed small cells, by providing these services to the City, will promote the health, safety, convenience and general welfare of the inhabitants of Salem.

Verizon Wireless looks forward to continuing to work cooperatively with the City Council to facilitate the proposed installations that will provide improved wireless service to the residents, educational institutions and businesses of Salem.

Thank you very much for your cooperation.

Very truly yours,
DUVAL & KLASNICK LLC

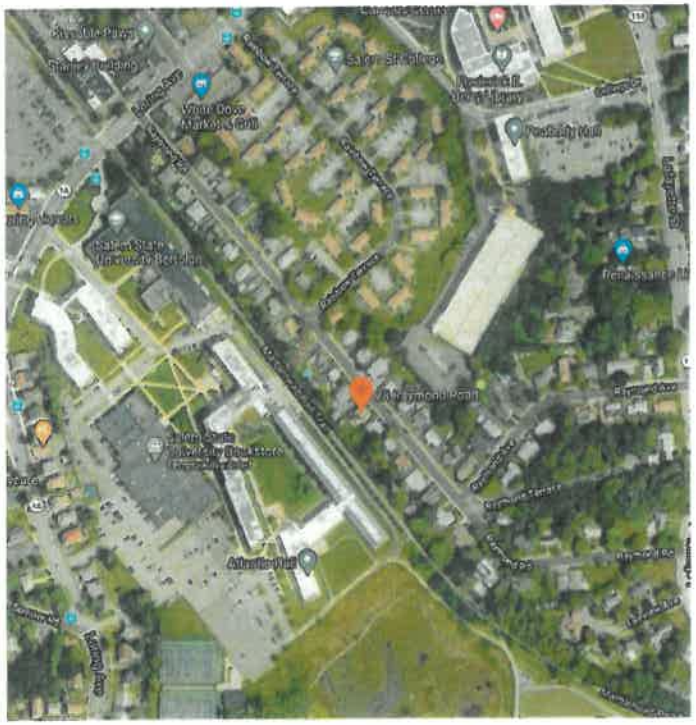
By: Daniel D. Klasnick
Attorney at Law

Salem Alternative Pole Analysis

May 6, 2020

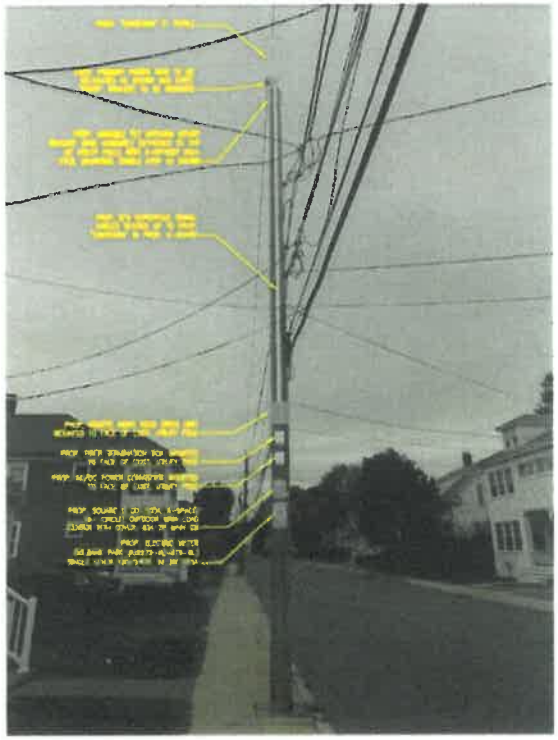
verizon

SALEM_SC13_MA
28 Raymond Road



RF Analysis

- Offload Salem_4_MA macro site
- Centrally located between Central campus and North campus of Salem state university



SALEM_SC13_MA	28 Raymond Road	Pole 3412 - 132/10	Pole is 23' from Residence
Pole #	Closest Address	Reason for Candidate Disqualification	
694	24 Raymond Road	Power risers to Speed Sign	North from 28 Raymond
3358	22/20 Raymond Road	Transformer	
3357	18/16 Raymond Road	Utility Compliant, House 22' from nearest residence	
34?3	32 Raymond Road	Utility Compliant, 17' from residence	South from 28 Raymond
3466	36 Raymond Road	Transformer	
3467	40 Raymond Road	Fire Alram	

verizon

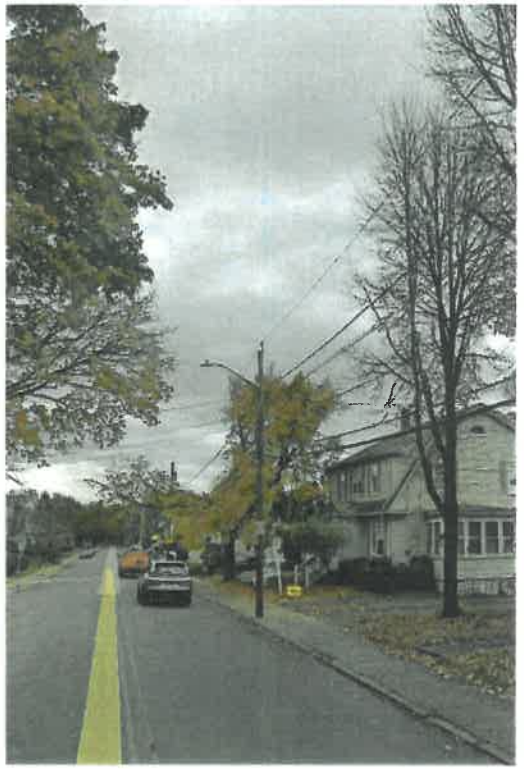
Alternative candidates to the North

24 Raymond Road- Pole 694

Power risers to Speed Sign

22/20 Raymond Ave- Pole 3358

Transformer



18/16 Raymond Road – Pole 3357

Utility Compliant, 22' from nearest residence
Heavy foliage would affect overall RF effectiveness

verizon

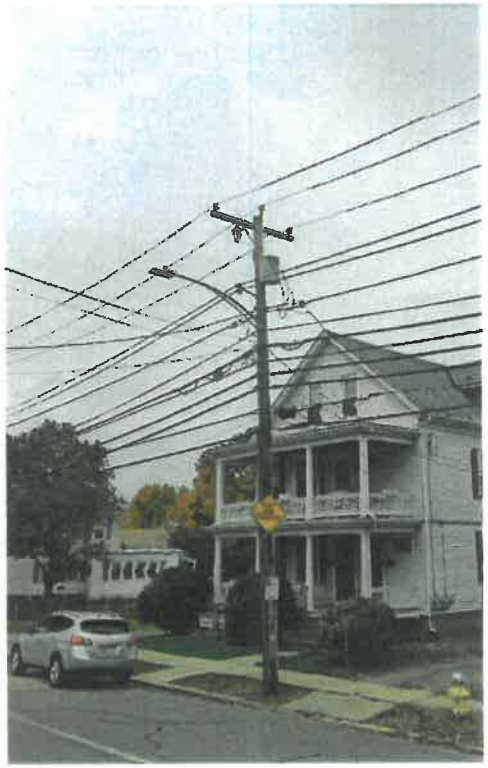
Alternative candidates to the South

32 Raymond Road – Pole 34X3

Utility Compliant, 17' from residence
Nearby foliage effects full RF capability

36 Raymond Road – Pole 3466

Transformer



40 Raymond Road – Pole 3467

Junction Pole, Primary reclosers

verizon

Alternative candidates – Transmission Lines

These are poles with sub-transmission circuit that is 23kV. This makes all the transmission poles along the Salem Bike Path unusable

17.6 **15kV MAXIMUM DISTRIBUTION WOOD POLE MOUNTED METERED POWER SUPPLY AND ANTENNA INSTALLATIONS**

17.6.10 **Application**

This Section covers installation details for distribution wood pole mounted, metered, secondary service to power supplies and antenna communication equipment on poles with 15kV maximum voltage equipment on pole.

verizon

Thank You

verizon

verizon

AFFIDAVIT OF RADIO FREQUENCY ENGINEER

The undersigned, in support of the application to install a small wireless communications facility (SWF) consisting of one canister antenna and associated radio equipment on two (2) utility poles located in the City of Salem Massachusetts, states the following.

1. My name is Ramzi Farchoukh. I have a Master's Degree in Telecommunications Engineering from Northeastern University. I have been employed by Verizon for six (6) years, the past four (4) of those years with Verizon Wireless as an RF Engineer. I am responsible for network design in the area of Massachusetts that includes the City of Salem, 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 were determined with reference to Verizon's existing network serving the Salem area and by identifying those areas in need of improved service. Furthermore, it was determined that the areas served by each facility would interact well with those of existing and proposed facilities in the surrounding areas.

   The following table provides details of each proposed site:

Name	Address	Pole Number
SALEM_SC13_MA	28 Raymond Road	3412
SALEM_SC15_MA	198 Loring Avenue	4064-84

4. Small cell deployments are intended to complement, not replace, macro 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 City of Salem, as well as to mobile customers traveling through the area. The proposed facilities reflect the locations and designs required to meet Verizon Wireless' network objectives with respect to capacity and coverage enhancement and deployment of new technologies. Without the proposed facilities, Verizon Wireless will be unable to provide reliable wireless communication services in these areas of Salem; therefore, Verizon Wireless respectfully requests that the City of Salem act favorably upon the proposed facilities.

Signed and sworn under the pains and penalties of perjury this 1 day of May, 2020.

Ramzi Farchoukh
RF Design Engineer
Verizon Wireless
118 Flanders Road, 3rd Floor
Westborough, MA 01851

verizon

2/7/202020
To: City of Salem
Transmitted via email
RE: Verizon Wireless Small Cell Sites

Dear City of Salem,

Verizon is installing 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.

Thank you for your inquiry. 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.

You also expressed concerns about the health effects of RF emissions from Verizon's network equipment. 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 must comply 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 towers on the FCC's website, which you can access via this link: http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

Thank you for reaching out to us regarding your concerns. We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional questions.

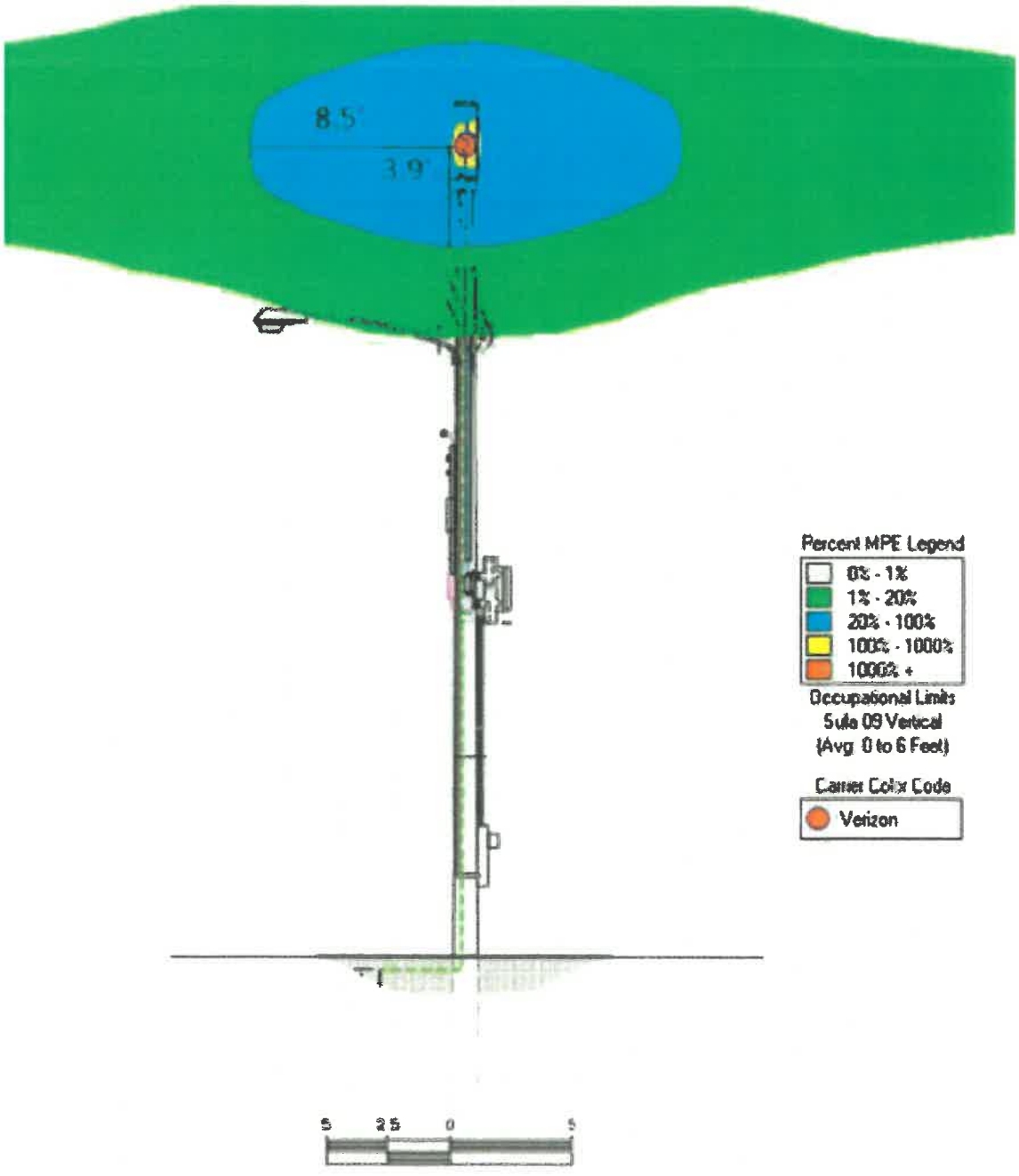
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

Sincerely,

Michael Creamer
Sr 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 this facility. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.



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

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). **E**nsuring all building/maintenance personnel are 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.

For General RF Safety & Awareness Questions

Verizon Wireless

E-mail: VZWRFCompliance@vzw.com

E-mail Subject: "ATTN: RF Compliance"

In The Event That Emergency Maintenance Is Required

24-Hour Network Operations Center:

1-800-264-6620

RF Safety & Awareness Training Contacts

Dtech Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

SiteSafe

(cbagley@sitesafe.com)

Waterford Consultants

Sbaier-anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions

SAFETY & AWARENESS

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. The following represents an overview of the most applicable information:

Classifications for Exposure Limits

Occupational	General Population
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".	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 have 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** (lock doors/ladders)
- **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.

Compliance Materials

Notification Signage

(Notice) RF Guidelines - Informs viewer of the basic safety guidelines for working in an RF Environment.

Information– Provides relevant contact information for any questions or requests.

(Blue) Notice - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.

(Yellow) Caution - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.

(Red) Warning - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

Indicative Barriers

In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. **Examples of Indicative Barrier Materials:** plastic chains, buckets, reflective paint or plastic cones, fiberglass fences, and poles mounted in cinderblocks.

Antenna Safety

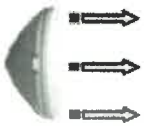
Antenna Types

Yagi - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**

Panel - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**

Whip - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**

Microwave - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**



When In An Environment With Antennas:

⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.

⇒ Never touch an antenna. Assume all are active.

⇒ Read and obey ALL signs on an access point.

⇒ Read and obey ALL signs in the environment with antennas.

⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.

⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.

⇒ Contact all wireless licensees **at least 24 hours in advance** of scheduled maintenance.

verizon

5/6/2020

To:

RE: Verizon Wireless Small Cell Site to be Located in the Right of Way Near: **28 Raymond Road, Salem, MA**

Dear,

Verizon is installing additional wireless telecommunications facilities in order to meet the growing demand for Verizon Wireless service by first responders and health care professionals, residents, businesses, and visitors.

Enclosed is information about a small cell telecommunications facility to be located on an existing utility pole in the right of way near 28 Raymond Road, Salem, MA. Please note that the purpose of this installation is to provide emergency service providers and customers with enhanced and more reliable wireless, voice, and data services in the vicinity of the facility. We conducted a search for utility poles available to the small cell installation project using the pole owner attachment criteria, the City of Salem's Process and Guidelines for Access to Right of Way/Pole Attachments for Telecommunications Providers, and the Verizon system coverage and/or capacity location requirements. We evaluated several candidate pole locations in selecting the proposed pole for the facility. Our location survey demonstrated that the subject utility pole is located at a distance of 23 feet from the nearest residence. We have enclosed detailed plans showing what the wireless facility will look like when it is installed and a brochure describing small cell technology.

The Federal Communications Commission (FCC) has developed safety rules for human exposure to Radio Frequency (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 must comply with these safety requirements.

The FCC supported and adopted the standards after examining the RF research that scientists in the U.S. and around the world have 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 cellular facilities on the FCC's website, which you can access via this link: http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

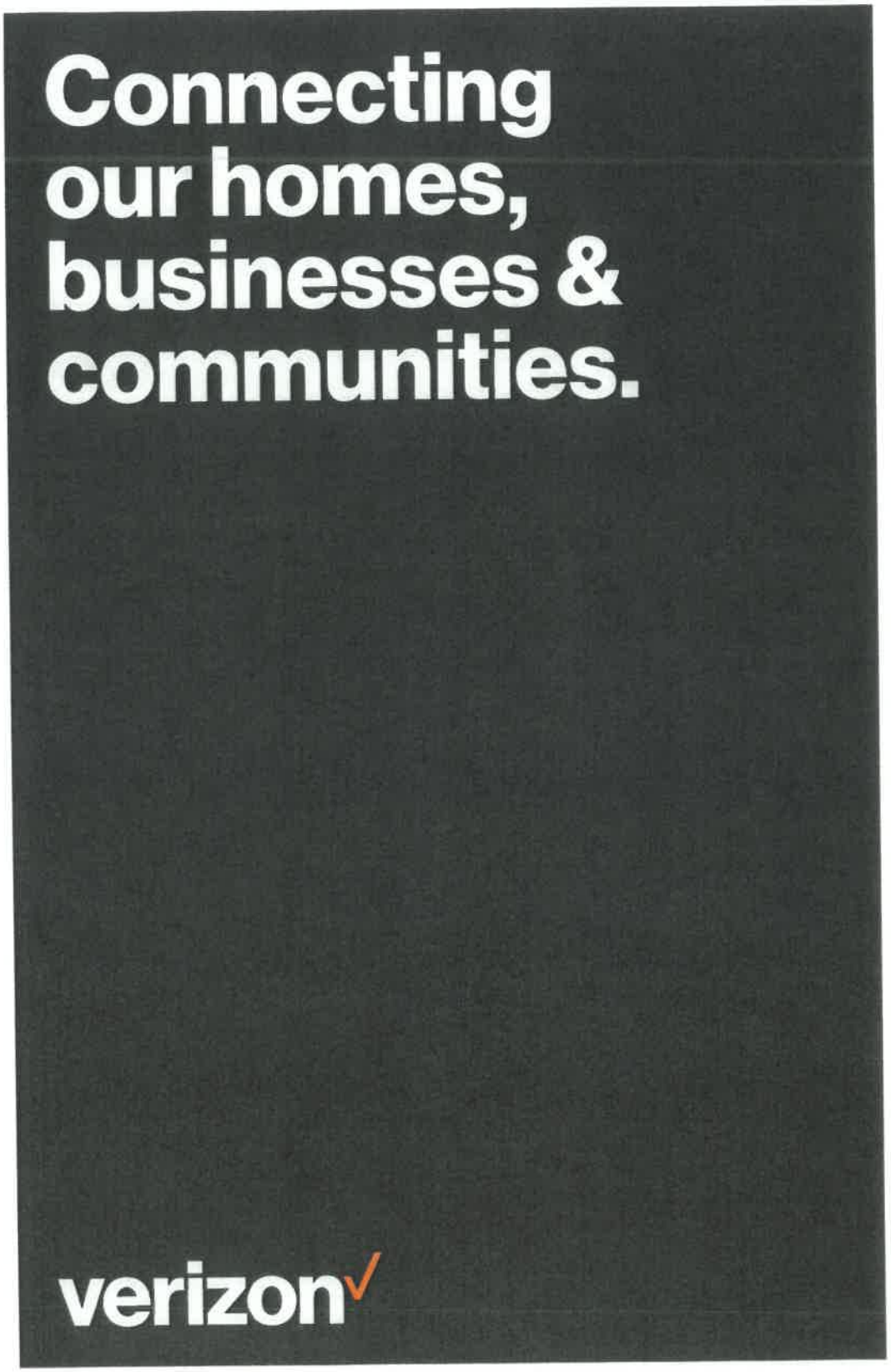
We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional questions.

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

Sincerely,

Rabeya Ahmad
Manager-RF System Design, Verizon Wireless

Attachments


Connecting
our homes,
businesses &
communities.
verizon

Why are we expanding the wireless network?

More people than ever before rely on wireless connections to manage their lives and businesses.

Verizon is expanding its wireless network to meet the growing demands of today and tomorrow.

But it takes time.

39GB
of data per month
Mobile data traffic per smartphone will rise from 7 GB per month in 2018 to 39 GB per month in 2024.[1]

57%
are now wireless
Around 57 percent of American households are now wireless only for voice service.[2]

31
billion devices
It is projected that there will be 31 billion connected devices by 2023.[3]

What it takes to keep families and businesses connected.

How does wireless service work?

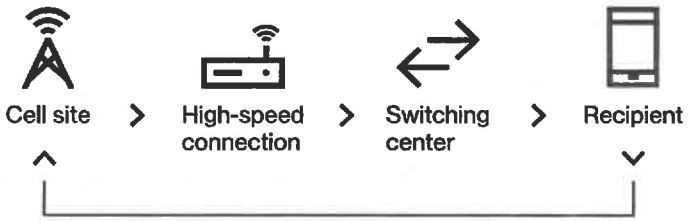
Radio frequencies can carry signals from radios and televisions, to baby monitors, garage door openers,home Wi-Fi service, and cordless phones.

Cell service uses these radio frequencies to wirelesslyconnect a mobile device with the nearest antenna. That antenna may be hidden in a church steeple, sitting on a rooftop, attached to a building façade or mounted on a freestanding tower structure. All are known generically as cell sites.

From the cell site, the call or data session then travels through a high-speed connection to a network switching center where it is then directed to the recipient.

This all happens in fractions of a second.

The many types of wireless technologies include cellular and fixed wireless, or Wi-Fi.



1. Ericsson Mobility Report, June 2019
2. CDC's 2016 Wireless Substitution: Early Release of Estimates From the National Health Interview Survey, July-December
3. CTIA Infographics, January 2020

Different locations require different solutions.

Verizon uses a balanced approach to engineering the best possible network given the local community's needs.

Traditional, or macro cell sites, are most often the best choice for meeting coverage and capacity needs. Macro sites are traditional cell sites or towers that provide coverage to a broad area, up to several miles.

Small cells are just like the name implies – short range cell sites used to complement macro cell towers in a smaller geographic area ranging from a few hundred feet to upwards of 1,000 feet. These lower power antennas enhance capacity in high traffic areas, dense urban areas, suburban neighborhoods, and more. Small cells use small radios and a single antenna placed on existing structures including utility poles and street lights.

Distributed Antenna Systems (DAS) are a group of antennas in outdoor or indoor locations that connect to a base station. DAS systems are typically used in large venues including stadiums and shopping centers.

Staying ahead of demand.

A wireless network is like a highway system...

More wireless traffic needs more wireless facilities just like more vehicle traffic needs more lanes.

- Many wireless users share each cell site and congestion may result when too many try to use it at the same time.
- Wireless coverage may already exist in an area, but with data usage growth increasing exponentially each year, more capacity is needed.
- To meet capacity demands, we need to add more wireless antennas closer to users and closer to other cell sites to provide the reliable service customers have come to expect from Verizon.

In the US, mobile data traffic was 1.3 Exabytes per month in 2016, the equivalent of 334 million DVDs each month or 3,687 million text messages each second.*

*Cisco VNI Mobile Forecast Highlights, 2016-2021, February 201[illegible]

Finding the right location.

To meet customer needs and expectations, wireless providers need the ability to expand and enhance their networks where users live, work, travel and play.

Verizon gathers information from many sources including customer feedback, results of our own exhaustive network testing, and data from third parties.

When an area for improvement is identified, utilizing our existing network is always our first effort. If that is not possible, we then look at adding a new site.

Steps to finding a new site

Our engineers analyze the areas that need improvement to figure out the ideal location based on customer needs, terrain and modeling results.

Using existing structures is considered first.

Network teams perform exhaustive searches in the area needing improvement to find a location that will meet our technical needs. We also look at interest from property owners.

We pick a location that has the highest likelihood of meeting technical needs and works for the community.

Guidelines for new sites

We comply fully with all requirements for community notification and review, zoning and permitting.

Potential antenna locations must meet all local, state and federal regulations.

Verizon holds Federal Communications Commission (FCC) licenses for the frequencies utilized and we strictly follow their regulations.

Wireless facilities and property values.

Cell service in and around the home has emerged as a critical factor in home-buying decisions.

National studies demonstrate that most home buyers value good cell service over many other factors including the proximity of schools when purchasing a home.

75%

More than 75% of prospective home buyers said a good cellular connection was important to them.[1]

83%

The same study showed that 83% of Millennials (those born between 1982 and 2004) said cell service was the most important fact in purchasing a home.

90%

90% of U.S. households use wireless service. Citizens need access to 911 and reverse 911 and wireless may be their only connection.[2]

1. RootMetrics/Money, The Surprising Thing Home Buyers Care About More than Schools, June 2, 2015
2. CTIA, June 2015

Health and safety background.

Health and safety organizations worldwide have studied potential health effects of RF emissions for decades, and studies continue.

The Federal Communications Commission (FCC) guidelines for operating wireless networks are based on the recommendations of federal health and safety agencies including:

- The Environmental Protection Agency (EPA)
- The Food and Drug Administration (FDA)
- The National Institute for Occupational Safety and Health (NIOSH)
- The Occupational Safety and Health Administration (OSHA)
- The Institute of Electrical and Electronics Engineers (IEEE)
- The National Council on Radiation Protection and Measurements (NCRP)

Wireless technology, equipment and network operations are highly regulated.

For more information go to:
Federal Communications Commission: fcc.gov
Food and Drug Administration: fda.gov
World Health Organization: who.int
American Cancer Society: cancer.org

Hundreds
of times less

According to the FCC, measurements made near a typical 40 foot cell site have shown that groundlevel power densities are 1,000 times less than the FCC's limits for safe exposure.

Building a wireless network you can rely on in a crisis.

The reliability of your cell phone is never more important than when crisis strikes. That's when a simple call or text message can make the difference between life and death.

We build reliability into every aspect of our wireless network to keep customers connected when you need it most. Reliability starts when we choose the safest, most secure locations for our wireless equipment. The likelihood of earthquakes, and risk from wildfires, mudslides, floods, hurricanes and more are all considered. When disaster strikes, we coordinate with first responders and can mobilize charging stations, special equipment, emergency vehicles and more to support local, state and federal agencies in all 50 states.

80% 76% of 911 calls originate from a cell phone.[1]

240 240 million 911 calls are made annually. In many areas, 80% or more are from wireless devices.[1]

1. National Emergency Number Association, About and FAQ
2. EMS World, April 24, 2014

Wireless connectivity is critical in schools and communities.

Wireless is a critical component in schools and for today's students.

20k learning apps are available for iPads.

72% of iTunes top selling educational apps are designed for preschool and elementary students.

600+ school districts replaced text books with tablets in classrooms.

77% of parents think tablets are beneficial to kids.

74% of school administrators feel digital content increases student engagement.

70% of teens use cellphones to help with homework.

Source: CTIA's Infographics Today's Wireless Family, October 2017

Wireless is a critical component in today's medical fields.

Smart pill bottles and cases can help patients and their care-givers track medication usage, ensuring medications are taken on time and correctly. This supports increased medical compliance, provides more consistent care, and enables preventative care, keeping patients in their homes longer and reducing the number of emergency visits to the doctor's office or hospital.

Wireless connected glucose monitors, blood-pressure cuffs, and EKGs can track a patient's vital signs and catch an issue before it turns into an emergency.

Pace makers and sleep apnea monitors can be tracked remotely.

Routine eye exams can be conducted with a wireless device connected to a smart phone, bringing solutions and services to low-income and remote areas that would otherwise go unsupported.

Source: Verizon Innovation Center, February. 2018

Wireless is a critical component in today's communities.

Wireless smart city solutions are being used to track available parking and minimize pollution and wasted time.

These same solutions are being used to track pedestrian and bike traffic to help planning and minimize accidents.

Smart, wireless connected lighting enables cities to control lighting remotely, saving energy and reducing energy costs by 20%.

4G technology is utilized to track and plan vehicle deliveries to minimize travel, maximize efficiency, and minimize carbon footprint.

4G technology is also used to monitor building power usage down to the circuit level remotely, preventing energy waste and supporting predictive maintenance on machines and equipment.

Wireless sensors placed in shipments are being used to track temperature-sensitive medications, equipment, and food. This is important for preventing the spread of food-borne diseases that kill 3,000 Americans each year.

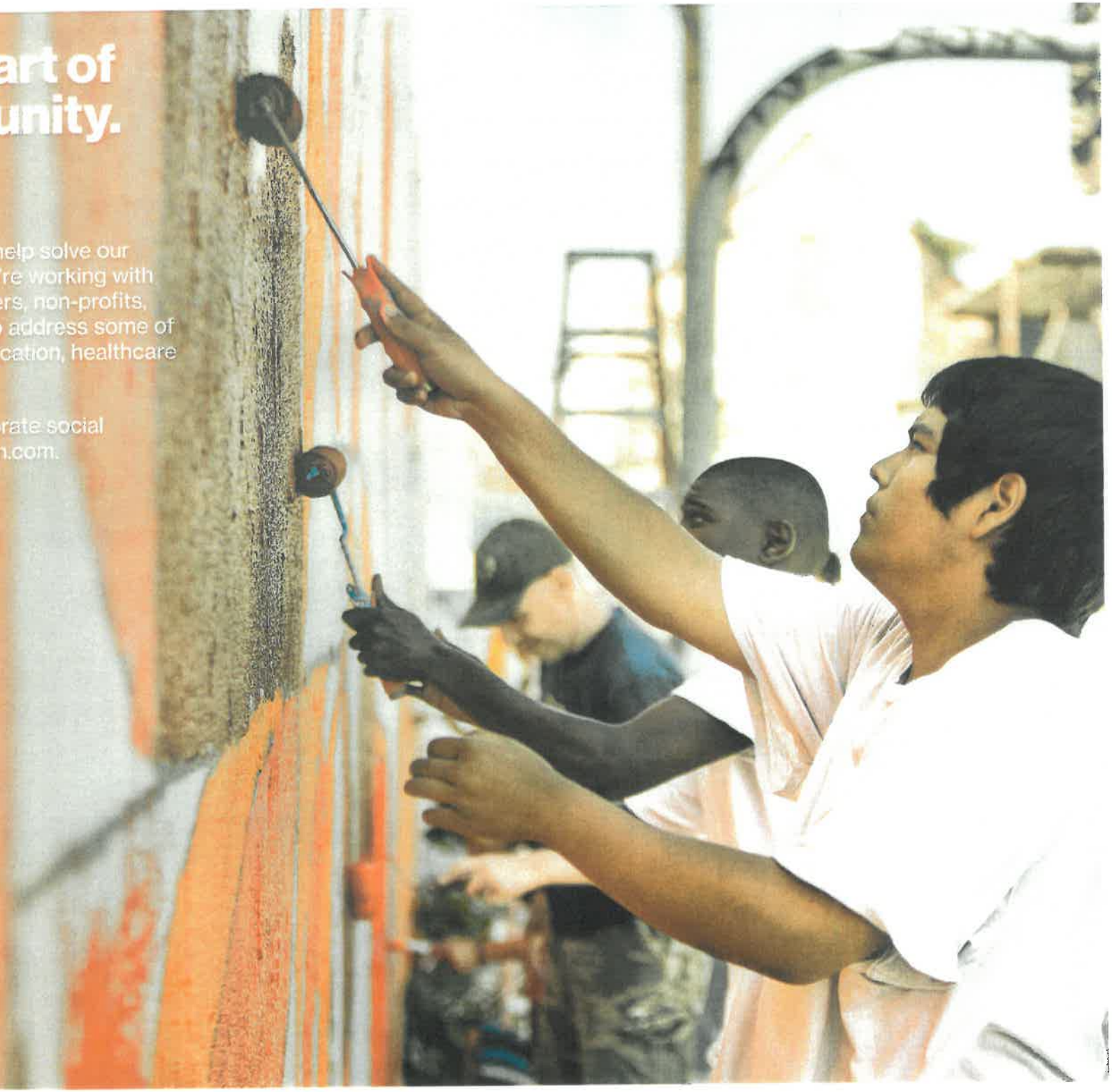
Source: Verizon Innovation Center, February. 2018

Verizon is part of your community.

Because we live and work there too.

We believe technology can help solve our biggest social problems. We're working with innovators, community leaders, non-profits, universities and our peers to address some of the unmet challenges in education, healthcare and energy management.

Learn more about our corporate social responsibility at www.verizon.com.



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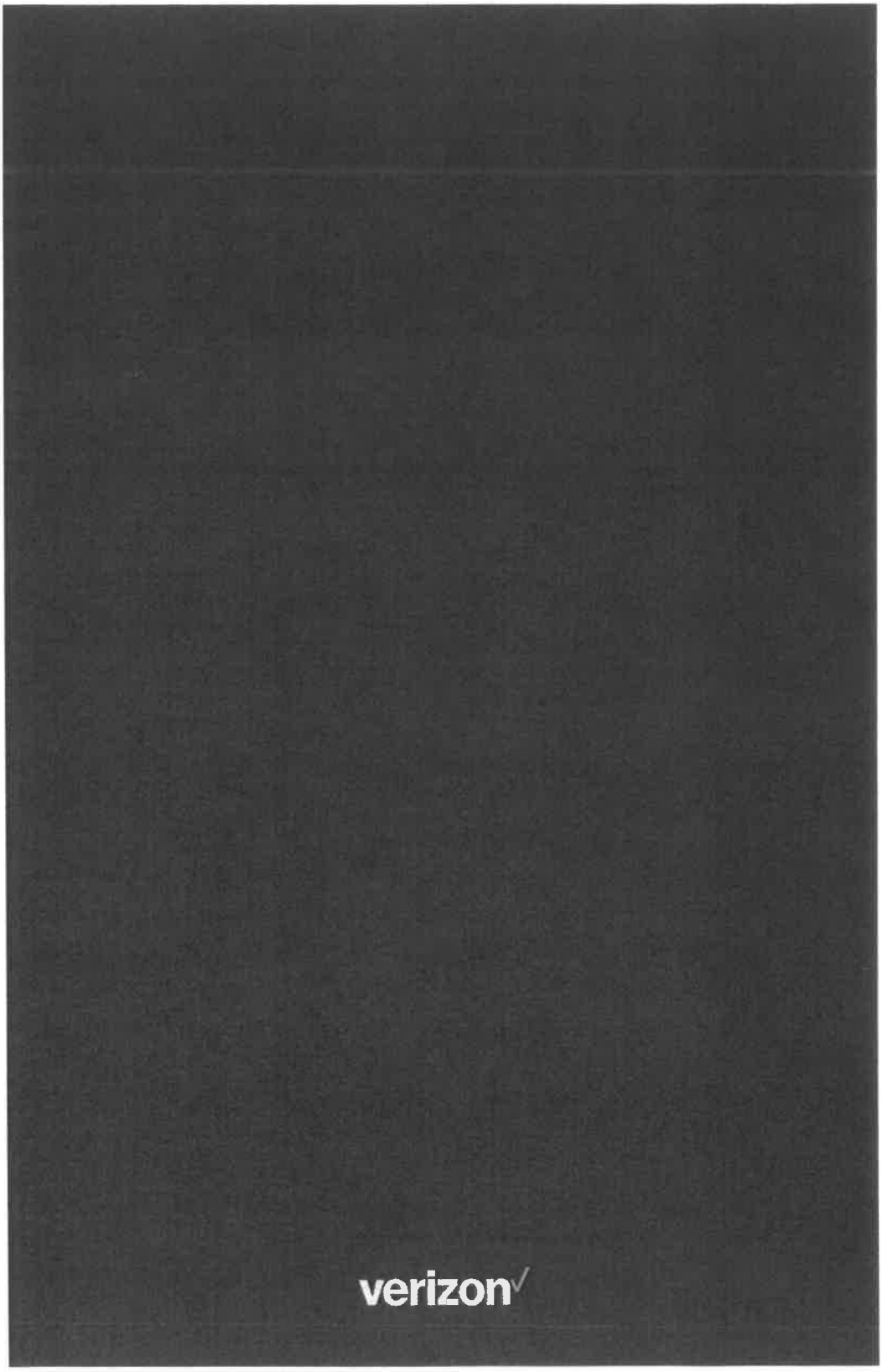
verizon

SALEM_SC13_MA

CLUSTER: SALEM MA

UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
28 RAYMOND ROAD
SALEM, MA 01970

SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
N 42.499903° (42°-29'-59.65")
W 70.892019° (70°-53'-31.27")
APPROXIMATE GROUND ELEVATION = 13'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 50' 100' 150'

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 DETAILS AND ONE-LINE DIAGRAM	0

verizon
"Because Better Matters"

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R.K. EXECUTIVE CENTRE
201 BOSTON POST ROAD WEST, SUITE 101
MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC13_MA
UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
28 RAYMOND ROAD
SALEM, MA 01970

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

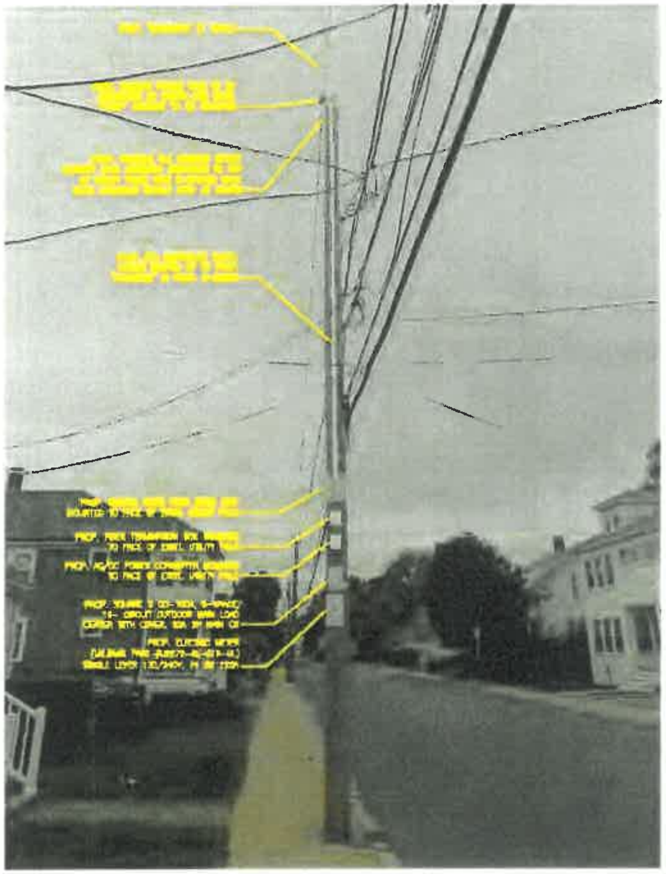
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

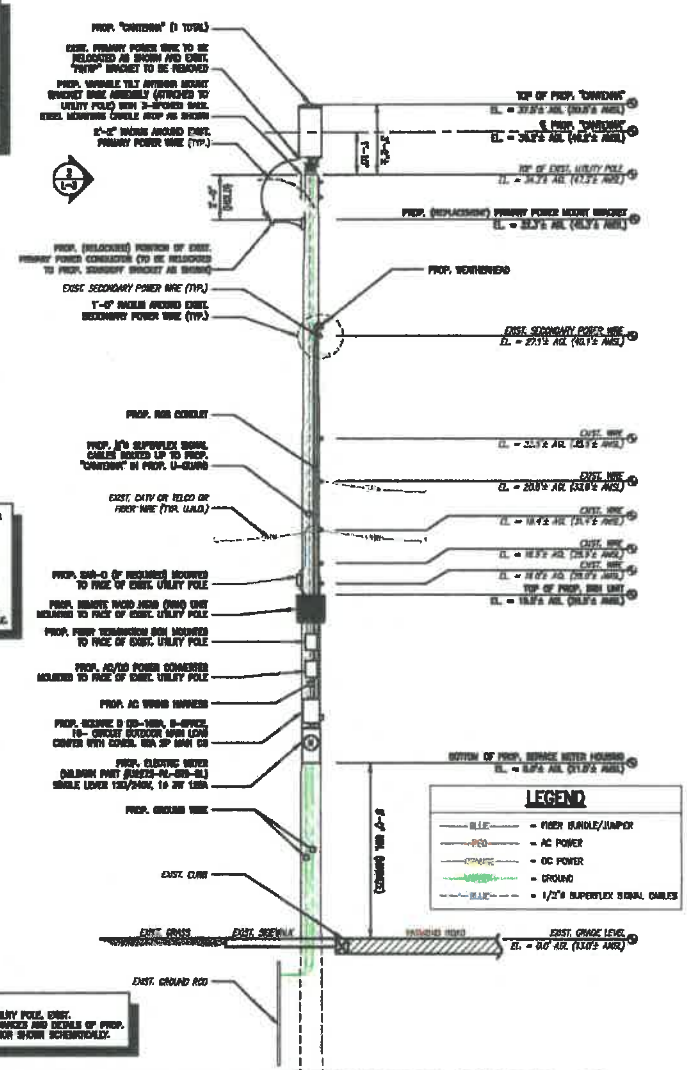
SCALE:	DESIGNED BY: DJD	NEW LOCATION
AS SHOWN	DRAWN BY: MMC	
	CHECKED BY: DJD	
VZW PROJECT NO.: 1480.310	ORIGINAL ISSUE DATE: 10/30/19	888881

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION ON THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC PLACARDS ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP & 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 THUS, 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 EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.



UTILITY POLE #3412 & #132/10 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING) 1/L-2
SCALE: NO SCALE



UTILITY POLE #3412 & #132/10 ELEVATION (PROPOSED CONDITIONS) 2/L-2
SCALE: 3/16" = 1'-0"
0 5'-4" 10'-8" 16'-0"

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(508) 481-7400
www.chappellengineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS		
NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

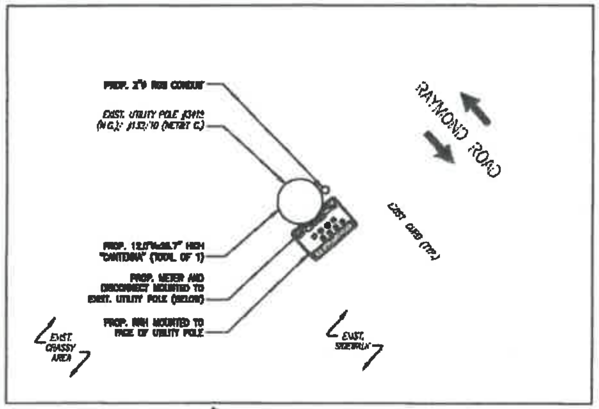
SITE NAME:
SALEM_SC13_MA
UTILITY POLE #3412 (N.G.)/ #132/10 (VERIZON)
28 RAYMOND ROAD
SALEM, MA 01970

DRAWING TITLE:
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:
L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN
CEA PROJECT NO.: 1460.310
ORIGINAL ISSUE DATE: 10/30/19



(INDICATES DIRECTION OF VEHICULAR TRAFFIC)

EQUIPMENT AND ANTENNA ORIENTATION PLAN (1 / L-3)

SCALE: 3/8" = 1'-0"

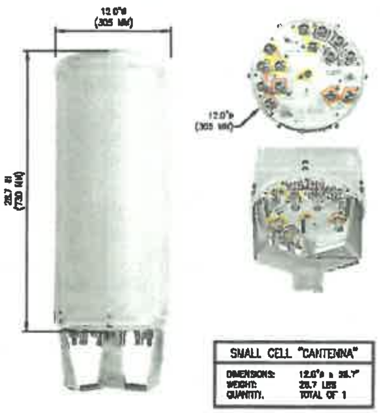
0 2'-8" 5'-4" 8'-0"

NOTES:

1.) CONFIRM CONDUIT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.

2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".

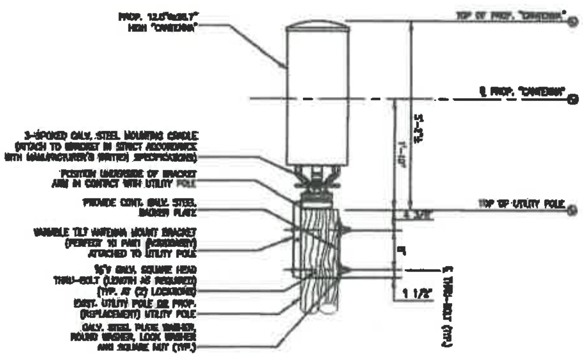
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.



SMALL CELL "CANTENNA"	
DIMENSIONS:	12.0"Ø x 28.7"
WEIGHT:	28.7 LBS
QUANTITY:	TOTAL OF 1

TYPICAL "CANTENNA" SPECIFICATIONS (3 / L-3)

SCALE: N.T.S.



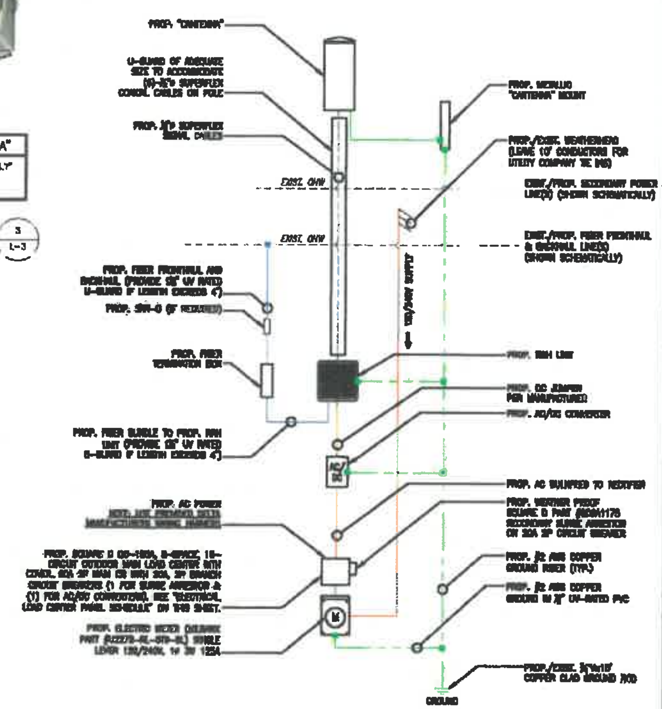
"CANTENNA" MOUNT DETAIL (2 / L-3)

SCALE: 1/2" = 1'-0"

PCS–AWS (1900/2100 MHz) REMOTE RADIO HEAD UNIT	
DIMENSIONS:	15.0"H x 15.0"W x 10.0"D
WEIGHT:	84.4 LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (4 / L-3)

SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:

1) PROVIDE WEATHER TIGHT SEAL CONNECTIONS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.

2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE (dashed)	= 1/2"Ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRICAL ONE-LINE DIAGRAM (5 / L-3)

SCALE: N.T.S.

verizon

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REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC13_MA
UTILITY POLE #3412 (N.G.)/ #132/10 (NETBT C.)
28 RAYMOND ROAD
SALEM, MA 01970

DRAWING TITLE:
ANTENNA & ANCILLARY EQUIPMENT DETAILS AND ONE-LINE DIAGRAM

DRAWING NO:
L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN
CEA PROJECT NO: 1460.310
DATE: 10/30/19

PETITION FOR SMALL CELL POLE ATTACHMENT

Under MGL Chapter 166, Section 22.

To the Honorable City Council of Salem, Massachusetts

Cellco Partnership d/b/a Verizon Wireless hereby respectfully requests permission to locate a small cell wireless antenna and necessary sustaining and protecting fixtures, on an existing utility pole #3412, located in the right of way adjacent to 28 Raymond Road in the City of Salem, as more particularly shown on the plans attached hereto.

Wherefore it prays that after due notice and hearing as provided by law, it be granted permission to install and maintain a small cell wireless antenna including the necessary sustaining and protecting fixtures in accordance with the plan filed herewith marked SALEM_SC13_MA.

The following are the public ways or part of ways along which the above referred attachment may be installed thereon:

Cellco Partnership d/b/a Verizon Wireless proposes to attach equipment to an existing utility pole #3412, located in the right of way near the property line of 28 Raymond Road with location as shown on the plan attached.

PETITIONER:

Cellco Partnership d/b/a
Verizon Wireless

By _____

Bryan Sarchi
Airosmith Development
318 West Avenue
Saratoga Springs, NY. 12866
480-734-4970

ORDER FOR POLE ATTACHMENT

In the City of Salem, 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 is granted a location for and permission to attach equipment to an existing utility pole, including the necessary sustaining and protecting fixtures as said company may deem necessary, in the public way or ways hereinafter referred to, as requested in petition of said Company dated the ___ day of _____, 2020.

All construction under this order shall be in accordance with the following conditions:

Equipment shall be installed as indicated upon the plan marked - Site ID: SALEM_SC13_MA, 28 Raymond Road, Salem, MA 01970, dated October 30, 2019 and filed with this order.

The following are the public ways or part of ways along which the above referred attachment may be installed thereon under this order:

Cellco Partnership d/b/a Verizon Wireless proposes to attach equipment to an existing utility pole #3412, in the right of way near the property line of 28 Raymond Road with location as shown on the plan attached.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of the City of Salem, Massachusetts held on the ____ day of _____, 2020., with the following conditions set below. *

Received and entered in the records of location orders of the City of Salem Book _____, Page _____.

Attest: _____
City Clerk

*

SARAH SCB-MA

ROUTING SLIP

Telecommunications Attachments in the Public Right of Way

Pursuant to the Code of Ordinances, Sections 12-86 through 12-200, each applicant who seeks access to the public right of way for telecommunications purposes must submit a petition and plans along with a $500 application fee to the Electrical Department. Once the City Electrician has signed off, please circulate to the Departments listed on the reverse side of this Routing Slip for signature and return it to the City Clerk's Office prior to the petition being placed on the City Council Agenda for a grant of location pursuant to MGL Chapter 166, Section 22.

Right of Way Location Requested: 28 Raymond Rd. / 42.499903°, 70.892019°

Application Fee Received: Yes ☑ **Check No.** 6477 **Date:** 2/27/20

City Electrician Approval: John J. Scarsdi

BUSINESS NAME

Corporate name: VERIZON WIRELESS

d/b/a:

Address: 118 FLANDERS RD 3RD FLOOR, WESTBOROUGH, MA. 01581 **Tele. #**

CONTACT: BRYAN SARCHI / AGENT W/ AIROSMITH DEVELOPMENT

Street: 378 WEST AVE **Tele. #** 480-734-4970

City: SARATOGA SPRINGS **State:** NY **Zip:** 12866

Email Address: BSARCHI@AIROSMITHDEVELOPMENT.COM

Pole Ownership

☑ **To be attached to utility-owned pole** ☐ **To be attached to City-owned pole**

☑ **Pole Attachment Agreement attached*** ☐ **Pole Attachment Agreement to follow***

***All grants of location for telecommunications attachments to poles are conditioned upon evidence of a valid pole attachment agreement.**

Conduits

Will the attachment also require a conduit? ☑ **Yes** ☐ **No**

TO ALL CITY DEPARTMENTS: By signing this slip you are only acknowledging that the applicant has made your department aware of its plans. All grants of location will be conditioned upon compliance with all departmental requirements and require a vote of the City Council after a public hearing. Please attach comments on separate sheet.

Planning Department — DATE 3/11/2020 (see letter)
City Hall Annex, 98 Washington Street

Engineering Department — DATE 3/30/2020 (please see memo)
City Hall Annex, 98 Washington Street

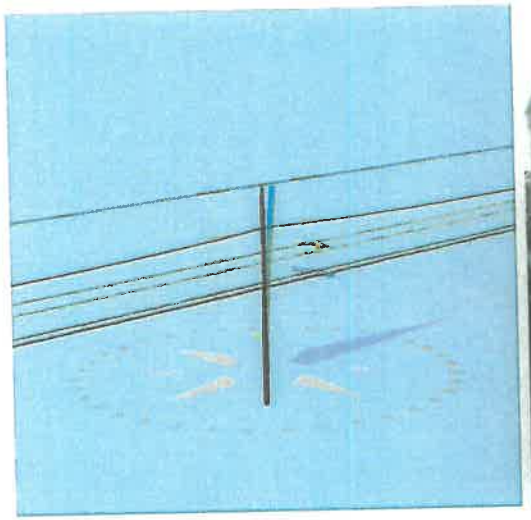
Salem Historical Commission — DATE 3/10/20 (please see comment letter)
City Hall Annex, 98 Washington Street

Office of Information Technology — DATE 5/27/2020
29 Highland Avenue

Legal Department — DATE 3/30/2020
City Hall, 93 Washington Street

RETURN ROUTING SLIP, ANY COMMENTS, PETITION, PLANS, ABUTTER LABELS, AND PROPOSED ORDER TO CITY CLERK'S OFFICE, CITY HALL, 93 WASHINGTON STREET WHEN COMPLETE SO THAT IT MAY BE PLACED ON THE COUNCIL'S AGENDA.

Pole Num:	3412	Pole Length / Class:	40 / 3	Code:	NESC	Structure Type:	Unguyed Tangent
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Unguyed
Aux Data 2	Unset	Setting Depth (ft):	6.11	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	38.00	Loading District:	Heavy	Transverse Wind LF:	1.75
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.50	Wire Tension LF:	1.00
Aux Data 5	Unset	Allowable Stress (psi):	6,800	Wind Speed (mph):	39.53	Vertical LF:	1.90
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.00		
Latitude:	0.000000 Deg	Longitude:			0.000000 Deg	Elevation:	0 Feet



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	23.8	0.0	90.0
Groundline	23.8	0.0	90.0
Vertical	5.5	18.6	90.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	22,973	90.1	90.0
Groundline	22,973	90.1	90.0
GL Allowable	98,453		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 90.1°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	318	31.3	9,454	41.2	9.6	651	641	6	657	9.7
Comms	507	49.8	10,152	44.2	10.3	699	1,142	10	709	10.4
Pole	192	18.8	3,292	14.3	3.3	227	2,026	18	244	3.6
Insulators	2	0.2	75	0.3	0.1	5	51	0	6	0.1
Pole Load	1,019	100.0	22,973	100.0	23.3	1,583	3,860	34	1,616	23.8
Pole Reserve Capacity			75,480		76.7	5,217			5,184	76.2

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 90.1°

	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
NGrid	320	31.4	9,506	41.4	9.7	655	654	6	661	9.7
Fiber	218	21.4	4,931	21.5	5.0	340	380	3	343	5.0
Catv	120	11.8	2,174	9.5	2.2	150	215	2	152	2.2
Telco	169	16.6	3,048	13.3	3.1	210	547	5	215	3.2
Pole	192	18.8	3,292	14.3	3.3	227	2,026	18	244	3.6
Communication	0	0.0	23	0.1	0.0	2	38	0	2	0.0
Totals:	1,019	100.0	22,973	100.0	23.3	1,583	3,860	34	1,616	23.8

Detailed Load Components:

Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	AAAC 123.3 KCM AZUSA	NGrid	34.52	3.66	0.3980	0.20	0.115	100.0	0.0	100.0	1,281	-82	0	1,408	1,326
Primary	AAAC 123.3 KCM AZUSA	NGrid	34.52	3.66	0.3980	0.20	0.115	100.0	180.0	100.0	1,281	82	0	1,408	1,490
Secondary	TRIPLEX 1/0 10-5	NGrid	26.77	6.41	1.0300	2.98	0.399	200.0	0.0	200.1	1,065	-53	137	3,170	3,254
Secondary	TRIPLEX 1/0 10-5	NGrid	26.77	6.41	1.0300	2.98	0.399	200.0	180.0	200.1	1,065	53	137	3,170	3,359
											Totals:	0	274	9,155	9,430

Comm		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Overlashed Bundle	6.6M Strand .75 Fiber	Fiber	22.42	6.97	0.2500	0.14	0.121	100.0	180.0	100.0	1,663	69	32	975	1,076
Fiber	Fiber	Fiber	22.38	6.97	0.7500		0.035	100.0	180.0	100.0			27	321	348
Overlashed Bundle	6.6M Strand .75 Fiber	Fiber	22.42	6.97	0.2500	0.14	0.121	100.0	0.0	100.0	1,663	-69	32	975	939
Fiber	Fiber	Fiber	22.38	6.97	0.7500		0.035	100.0	0.0	100.0			27	321	348
Overlashed Bundle	6.6M Strand .5 Fiber	Fiber	20.60	7.10	0.2500	0.13	0.121	100.0	180.0	100.0	1,663	63	29	826	918
Fiber	Fiber	Fiber	20.57	7.10	0.5000		0.023	100.0	180.0	100.0			23	225	248
Overlashed Bundle	6.6M Strand .5 Fiber	Fiber	20.60	7.10	0.2500	0.13	0.121	100.0	0.0	100.0	1,663	-63	29	826	791
Fiber	Fiber	Fiber	20.57	7.10	0.5000		0.023	100.0	0.0	100.0			23	225	248
Overlashed Bundle	6.6M Strand .75 Catv	Catv	16.94	7.35	0.2500	0.15	0.121	100.0	0.0	100.0	1,663	-52	35	756	740
CATV	CATV .75	Catv	16.90	7.35	0.8200		0.038	100.0	0.0	100.0			30	262	292
Overlashed Bundle	6.6M Strand .75 Catv	Catv	16.94	7.35	0.2500	0.15	0.121	100.0	180.0	100.0	1,663	52	35	756	844
CATV	CATV .75	Catv	16.90	7.35	0.8200		0.038	100.0	180.0	100.0			30	262	292
Overlashed Bundle	10M STRAND	Telco	16.03	7.42	0.3060	0.81	0.165	100.0	0.0	100.0	2,500	-74	53	910	889

Telco	Telco 1.25	Telco	15.96	7.42	1.7500		1.225	100.0	0.0	100.0			116	441	556
Overlashed Bundle	10M STRAND	Telco	16.03	7.42	0.3060	0.81	0.165	100.0	180.0	100.0	2,500	74	53	910	1,038
Telco	Telco 1.25	Telco	15.96	7.42	1.7500		1.225	100.0	180.0	100.0			116	441	556
											Totals:	0	692	9,434	10,126

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Pin	Pin 7.5	NGrid	33.89	0.00	180.0	0.0	6.00	3.50	7.50	0	44	44
Spool	Spool Insulator	NGrid	26.77	0.00	90.0	0.0	1.00	2.50	2.12	1	7	8
Bolt	Three Bolt	Communication	22.42	0.00	90.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Three Bolt	Communication	20.60	0.00	90.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Three Bolt	Communication	16.94	0.00	90.0	0.0	5.00	3.00	0.00	6	0	6
Bolt	Three Bolt	Communication	16.03	0.00	90.0	0.0	5.00	3.00	0.00	6	0	6
									Totals:	24	51	74

Pole Buckling

Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
2.00	18.61	33.25	11.22	5.87	7.32	12.10	2.13e+6	60.00	57.00	33.89	69,784	**701.84**	**18.18**

verizon

2/7/202020
To: City of Salem
Transmitted via email
RE: Verizon Wireless Small Cell Sites

Dear City of Salem,

Verizon is installing 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.

Thank you for your inquiry. 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.

You also expressed concerns about the health effects of RF emissions from Verizon's network equipment. 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 must comply 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 towers on the FCC's website, which you can access via this link: http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

Thank you for reaching out to us regarding your concerns. We appreciate the chance to explain our activities regarding the wireless facility at issue. Questions related to compliance with federal regulations should be directed to VZWRFCompliance@verizonwireless.com. Please contact your local Verizon Wireless resource below if you have any additional questions.

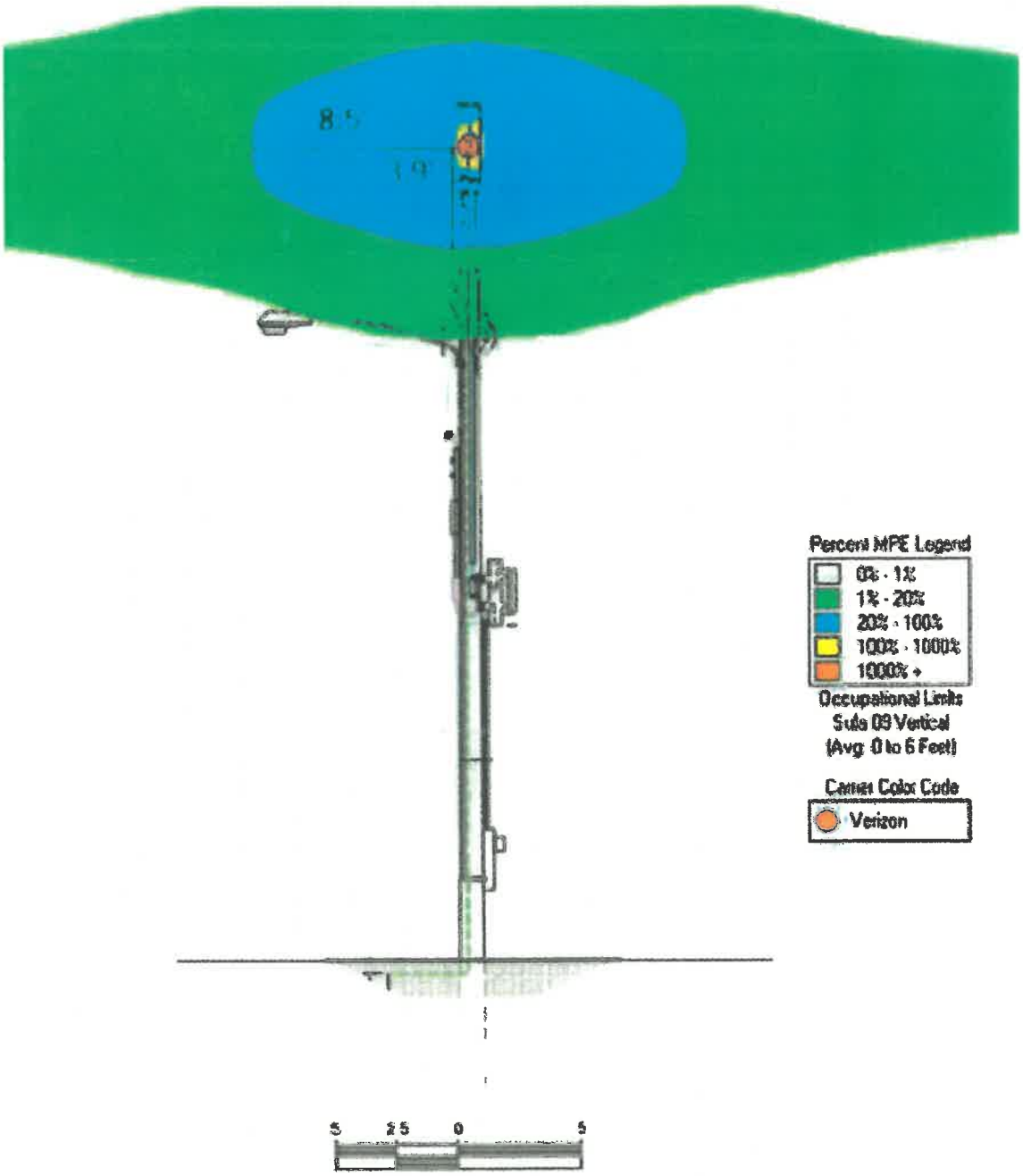
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

Sincerely,

Michael Creamer
Sr 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 this facility. Contact Verizon Wireless should maintenance need to be performed in any non-green areas.



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

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:

⇒ **Maintaining** all necessary wireless licensee contact information.

⇒ **Enforcing** restricted access (help maintain a Controlled Environment). **Ensuring** all building/maintenance personnel are aware that the potential for exposure exists, and follow all appropriate entry and safety procedures.

⇒ **Notifying** all licensees when any non-carrier requests access to any area with antennas at least 24 hours in advance.

⇒ **Understanding** 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.

For General RF Safety & Awareness Questions

Verizon Wireless

E-mail: VZWRFCompliance@vzw.com

E-mail Subject: "ATTN: RF Compliance"

In The Event That Emergency Maintenance Is Required

24-Hour Network Operations Center:

1-800-264-6620

RF Safety & Awareness Training Contacts

Dtech Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

SiteSafe

(cbagley@sitesafe.com)

Waterford Consultants

Sbaier-anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions

SAFETY & AWARENESS

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. The following represents an overview of the most applicable information:

Classifications for Exposure Limits

Occupational	General Population
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".	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 have 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** (lock doors/ladders)
- **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.

Compliance Materials

Notification Signage

(Notice) RF Guidelines - Informs viewer of the basic safety guidelines for working in an RF Environment.

Information– Provides relevant contact information for any questions or requests.

(Blue) Notice - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population MPE limit but will remain below the Occupational MPE limit.

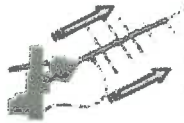
(Yellow) Caution - Informs viewer that beyond the sign, RF exposure levels may exceed the General Population and Occupational MPE limit.

(Red) Warning - Informs viewer that beyond the sign, RF exposure levels may substantially exceed the General Population and Occupational MPE limit.

Indicative Barriers

In addition to physical barriers such as locked doors or ladders, wireless licensees may also be required to place indicative barriers as a means of visually demarcating an area where RF levels are expected to exceed the FCC's limits. Examples of Indicative Barrier Materials: plastic chains, buckets, reflective paint or plastic cones, fiberglass fences, and poles mounted in cinderblocks.

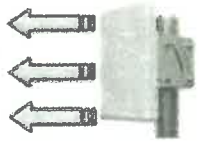
Antenna Safety



Antenna Types

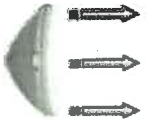
Yagi - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk behind or under this antenna.**

Panel - Antenna that radiates energy in one direction. RF energy beam can range from narrow to very wide. **Walk behind this antenna. Stay out of the general direction that the antenna is pointing.**



Whip - Antenna that radiates energy equally in all directions. **Maintain as much distance as possible from this antenna.**

Microwave - Antenna that radiates energy in one direction. RF energy has a narrow beam. **Walk under or behind this antenna.**



When In An Environment With Antennas:

⇒ Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.

⇒ Never touch an antenna. Assume all are active.

⇒ Read and obey ALL signs on an access point.

⇒ Read and obey ALL signs in the environment with antennas.

⇒ Never walk past an indicative barrier without first confirming transmitter inactivity.

⇒ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.

⇒ Contact all wireless licensees **at least 24 hours in advance** of scheduled maintenance.

SALEM_SC13_MA

CLUSTER: SALEM MA

UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
28 RAYMOND ROAD
SALEM, MA 01970

SITE CONTROL POINT:
CENTER OF EXISTING UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
N 42.499903° (42°-29'-59.65")
W 70.892019° (70°-53'-31.27")
APPROXIMATE GROUND ELEVATION – 13'± AMSL

LOCATION PLAN/AERIAL IMAGE (1 / L-1)
SCALE: 1" = 50'
0 50' 100' 150'

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 DETAILS AND ONE-LINE DIAGRAM	0

verizon
"Because Better Matters"

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

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:
SALEM_SC13_MA
UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
28 RAYMOND ROAD
SALEM, MA 01970

DRAWING TITLE:
LOCATION PLAN/ AERIAL IMAGE

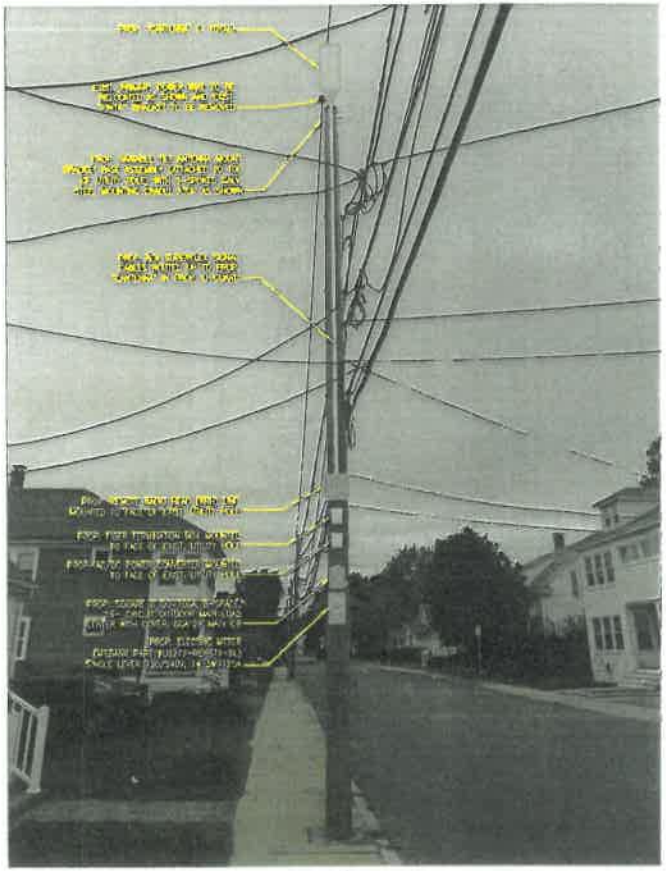
DRAWING NO:
L-1

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE: AS SHOWN
CEA PROJECT NO: 1460.310
ORIGINAL ISSUE DATE: 10/30/19
398581

GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION, SIZE AND ORIENTATION OF THE PROPOSED WIRELESS TELECOMMUNICATIONS EQUIPMENT INSTALLATION ON THE UTILITY POLE AND ARE NOT SPECIFICALLY INTENDED FOR CONSTRUCTION.
2. VERIZON WIRELESS SHALL PLACE WEATHER RESISTANT PHENOLIC PLACARDS ON UTILITY POLE AND ANCILLARY EQUIPMENT TO IDENTIFY EQUIPMENT OWNERSHIP & 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 THUS, 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 EXISTING UTILITY COMPANY OR COMPANIES CURRENTLY OCCUPYING THE UTILITY POLE AND THE 2017 NATIONAL ELECTRICAL SAFETY CODE.

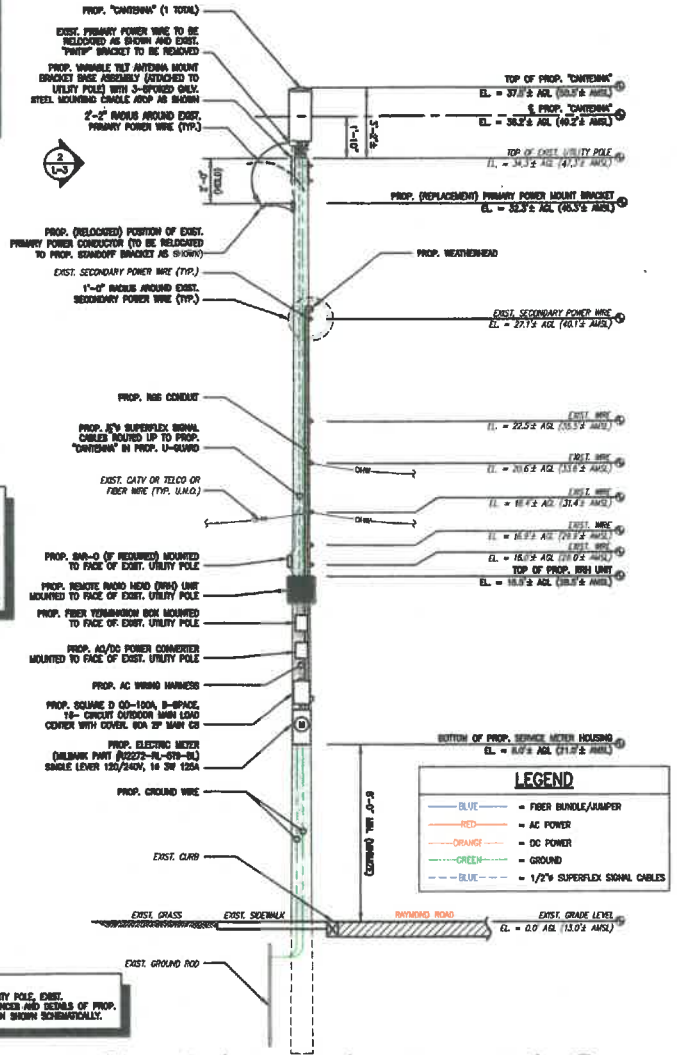


UTILITY POLE #3412 & #132/10 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING) (1 / L-2)

SCALE: NO SCALE

ANTENNA AND MOUNT NOTE: CONTRACTOR SHALL POSITION/INSTALL PROP. ANTENNA MOUNT/BRACKET IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXIST. STREET LIGHT, PRIMARY POWER CROSSARM(S) (IF PRESENT), BRACKETS, BRACES, SECONDARY POWER SUPPORTS OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE EXIST. UTILITY POLE.

EQUIPMENT AND MOUNT NOTE: CONTRACTOR SHALL POSITION/INSTALL PROP. EQUIPMENT AND ASSOCIATED MOUNTS/BRACKETS IN SUCH A WAY SO AS TO NOT INTERFERE WITH EXIST. WIRES/PANELS ETC. OR ANY OTHER MISCELLANEOUS APPURTENANCES AND RELATED SUPPORT BRACKETS ENCOUNTERED LOCATED ON THE FACE OF THE EXIST. UTILITY POLE.



NOTE: EXIST. UTILITY POLE, EXIST. APPURTENANCES AND DETAILS OF PROP. INSTALLATION SHOWN SCHEMATICALLY.

UTILITY POLE #3412 & #132/10 ELEVATION (PROPOSED CONDITIONS) (2 / L-2)

SCALE: 3/16" = 1'-0"

0 5'-4" 10'-8" 16'-0"

verizon

"Because Better Matters"

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

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/19

SITE NAME:

SALEM_SC13_MA

UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
28 RAYMOND ROAD
SALEM, MA 01970

DRAWING TITLE:

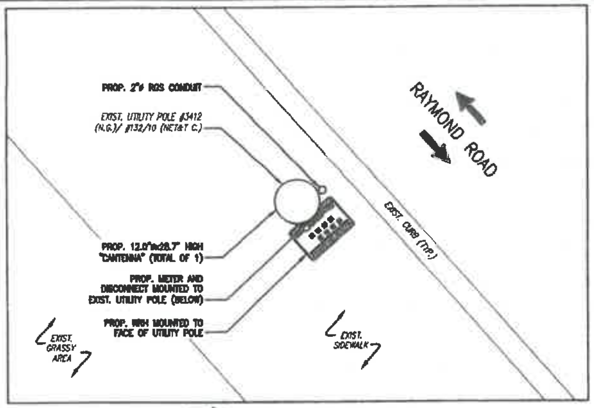
UTILITY POLE PHOTOGRAPH AND ELEVATION

DRAWING NO:

L-2

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DRAWN BY:	NEW LOCATION
AS SHOWN	CHECKED BY:	388551
CEA PROJECT NO.:	CURRENT ISSUE DATE:	
1480.310	10/30/19	

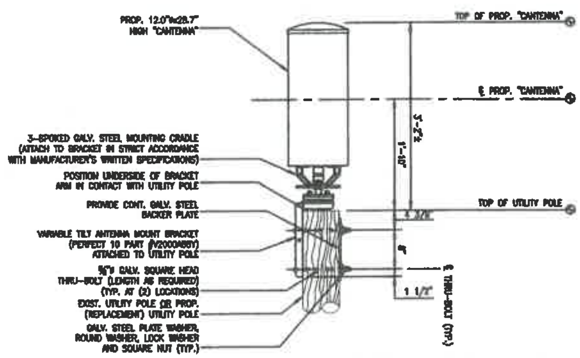


EQUIPMENT AND ANTENNA ORIENTATION PLAN (1 / L-3)
SCALE: 3/8" = 1'-0"
0 2'-8" 5'-4" 8'-0"

NOTES:
1.) CONFIRM DOWNTILT REQUIREMENTS (IF ANY) AND AZIMUTH SPECIFICATIONS WITH VERIZON WIRELESS RF ENGINEER AT TIME OF CONSTRUCTION.
2.) MOUNT SHALL BE INSTALLED IN SUCH A WAY TO ENSURE PLUMB INSTALLATION OF "CANTENNA".
3.) UTILITY POLE APPURTENANCES NOT SHOWN FOR CLARITY.

SMALL CELL "CANTENNA"	
DIMENSIONS:	12.0"Ø x 28.7"
WEIGHT:	28.7 LBS
QUANTITY:	TOTAL OF 1

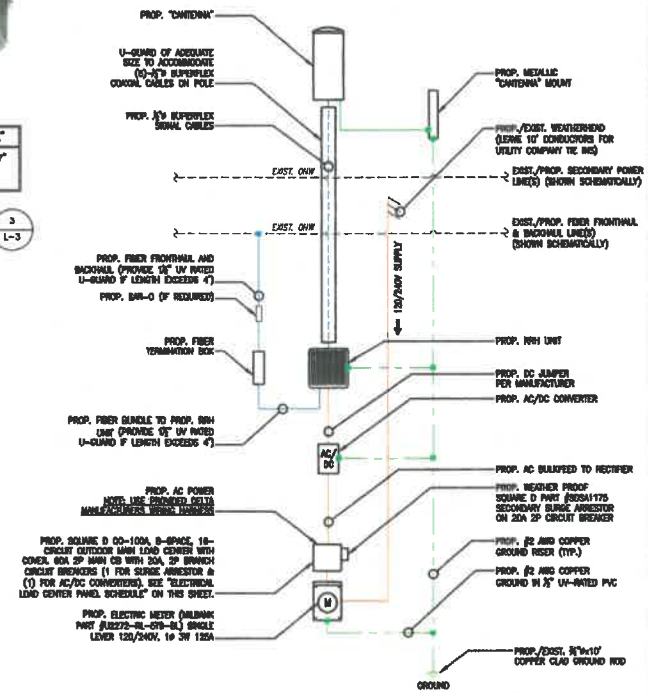
TYPICAL "CANTENNA" SPECIFICATIONS (3 / L-3)
SCALE: N.T.S.



"CANTENNA" MOUNT DETAIL (2 / L-3)
SCALE: 1/2" = 1'-0"

PCS–AWS (1900/2100 MHz) REMOTE RADIO HEAD UNIT	
DIMENSIONS:	18.0"H x 15.0"W x 10.0"D
WEIGHT:	84.4 LBS
QUANTITY:	TOTAL OF 1

TYPICAL REMOTE RADIO HEAD (RRH) UNIT DIMENSIONS (4 / L-3)
SCALE: N.T.S.



ONE-LINE DIAGRAM NOTES:
1) PROVIDE WEATHER TIGHT SEAL CONNECTORS ON ALL CONNECTIONS EACH SIDE OF ENCLOSURE HOUSING.
2) COORDINATE ANY FURTHER MISCELLANEOUS WIRING AND CONDUIT REQUIREMENTS WITH VERIZON WIRELESS AND ELECTRIC COMPANY.

LEGEND

BLUE	= FIBER BUNDLE/JUMPER
RED	= AC POWER
ORANGE	= DC POWER
GREEN	= GROUND
BLUE (dashed)	= 1/2"Ø SUPERFLEX SIGNAL CABLES

FIBER/ELECTRICAL ONE-LINE DIAGRAM (5 / L-3)
SCALE: N.T.S.

verizon
" Because Better Matters "

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MARLBOROUGH, MA 01752
(508) 481-7400
www.chappellengineering.com

REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR REVIEW	10/30/18

SITE NAME:
SALEM_SC13_MA
UTILITY POLE #3412 (N.G.)/ #132/10 (NET&T C.)
28 RAYMOND ROAD
SALEM, MA 01970

DRAWING TITLE:
ANTENNA & ANCILLARY EQUIPMENT DETAILS AND ONE-LINE DIAGRAM

DRAWING NO:
L-3

LEASE EXHIBIT
NOT FOR CONSTRUCTION

SCALE:	DESIGNED BY / DRAWN BY / CHECKED BY	NEW LOCATION CODE:
AS SHOWN	[illegible]	398581
CEA PROJECT NO.:	ORIGINAL ISSUE DATE:	
1480.310	10/30/18	

Salem
Abutters List

Subject Parcel ID: ***b***

Subject Property Location:

ParcelID	Location	Owner	Co-Owner	Mailing Address	City	State	Zip
32-0002-0	30 RAYMOND ROAD	ABRAMO VINCENT J	ABRAMO MARIE L	30 RAYMOND ROAD	SALEM	MA	01970
32-0003-0	28 RAYMOND ROAD	DOWARD DORIS P		28 RAYMOND ROAD	SALEM	MA	01970
32-0004-0	26 RAYMOND ROAD	GAUTHIER MARY LOU	GAUTHIER DONALD J	26 RAYMOND ROAD	SALEM	MA	01970
32-0150-0	27 RAYMOND ROAD	SABELLA STEPHEN		18 MOHAWK STREET	DANVERS	MA	01923
32-0151-0	31 RAYMOND ROAD	DELA CRUZ VICTORIA		31 RAYMOND RD	SALEM	MA	01970

Parcel Count: **5**

End of Report

CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll
Mayor

Office of the Mayor

May 14, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

I am pleased to appoint Susan Yochelson of 5 Eden Street to the Tree Commission as an Alternate Member for a three-year term to expire July 18, 2022. Ms. Yochelson will complete the remainder of the unexpired term previously filled by Ms. Charlotte Enfield, who stepped down from the Commission due to work constraints.

Ms. Yochelson worked for 12 years as the Outreach Coordinator of Salem Sound Coastwatch and has been an active member of SalemRecycles since the committee's inception. She holds a Masters in Social Work from the University of Maryland and studied urban and environmental policy and planning in the Community Environmental Studies graduate program at Tufts University. Ms. Yochelson is a board member of the Salem Alliance for the Environment and is dedicated to the protection of our community's natural and ecological resources.

I recommend confirmation of Ms. Yochelson to the Tree Commission. We are fortunate that she is willing to serve our community in this important role and lend her insights and expertise to the Commission and its work.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll
Mayor

Office of the Mayor

May 14, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

I am pleased to appoint Cynthia Nina-Soto to the Salem Redevelopment Authority for a five-year term to expire December 8, 2021. Ms. Nina-Soto will complete the remainder of the unexpired term previously filled by Mr. Gary Barrett, who stepped down from the Authority earlier this year to accept an appointment to the Licensing Board.

Ms. Nina-Soto earned her degree in business administration from Salem State and today owns her own real estate brokerage. In her professional work, Ms. Nina-Soto has been focused on helping first-time homebuyers and Latino families especially. She is deeply committed to building a strong community here in Salem. Ms. Nina-Soto is President of the North Shore Association of Realtors and currently volunteers on the City's Scholarship & Education Committee. She has served on the Affordable Housing Trust Fund Board, but will step down from that board to take on this new role.

I recommend confirmation of Ms. Nina-Soto to the Salem Redevelopment Authority. We are fortunate that she is willing to serve our community in this important role and lend her insights and expertise to the Authority and its work.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

CITY OF SALEM, MASSACHUSETTS
Kimberley Driscoll
Mayor

Office of the Mayor

May 28, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

I am pleased to appoint Patricia Small, 18 Dalton Parkway, to the Council on Aging Board for a three-year term to expire December 7, 2020. Ms. Small will complete the remainder of the unexpired term previously filled by Ms. Elaine Heredeen, who has chosen to step down from the board after 14 years of dedicated service. I hope you will join me in thanking Ms. Heredeen for her many years of commitment to the COA and to Salem's seniors.

Ms. Small is a retired counselor for Lahey Behavioral Health Services and has a long career in human services, including as northeast regional Housing Director for the Massachusetts Department of Mental Health and case management director for the Department's North Shore site prior to that. Ms. Small holds a Bachelor's of Science degree in Health Sciences from Boston University and earned her Ed.M in Counseling and Consulting Psychology from Harvard University. She volunteers as a member of the Salem for All Ages Task Force's Housing Subcommittee and at the Mayor Jean Levesque Community Life Center, where she convened the "Third Age Conversation" group for "younger" seniors. Ms. small is also the co-founder of the Manna Project, a multi-faith charity that works regionally to address hunger and food insecurity.

I recommend confirmation of Ms. Small's appointment to the Council on Aging Board. We are fortunate that she is willing to serve our community in this important role and lend her insights and expertise to the board and its work.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll
Mayor

Office of the Mayor

May 28, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

I reappoint, subject to City Council confirmation, Robert Callahan of 8 Stearns Place to the Parks & Recreation Commission for a term of 5 years to expire June 1, 2025.

I recommend confirmation of his reappointment to the Parks & Recreation Commission and ask that you join me in thanking Mr. Callahan for his continued dedicated service and commitment to our community.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

CITY OF SALEM

In City Council,

Ordered:

May 28, 2020

That the sum of Thirty Two Thousand Dollars ($32,000.00) is hereby transferred and appropriated from the "Fund Balance Reserved for Appropriation – Free Cash" account (1-3245) to Planning for the joint Beverly-Salem Climate Action Plan in accordance with the recommendation of Her Honor the Mayor.

CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll
Mayor

Office of the Mayor

May 28, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

The enclosed Order allocates $32,000 from general fund free cash to provide the City's matching share for the Beverly-Salem Climate Action Plan.

As you may recall, we were awarded a grant of $187,500 from the Executive Office of Energy and Environmental Affairs to develop a regional climate change action strategy in partnership with the City of Beverly. Over the last several years Salem has taken substantial steps forward in preparing for the effects of climate change, including our Hazard Mitigation Plan and our Climate Change Vulnerability Assessment. This Action Plan represents a critically important next step in those efforts.

There is no net addition to the City budget as a result of this Order, as it is an appropriation transferring funds from the free cash account to the Planning Department's account. I recommend adoption of this Order and invite you contact Tom Daniel and Jenna Ide if you have additional questions.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

KIMBERLEY DRISCOLL
MAYOR

TOM DANIEL, AICP
DIRECTOR

CITY OF SALEM, MASSACHUSETTS
DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

98 WASHINGTON STREET, 2ND FLOOR ♦ SALEM, MASSACHUSETTS 01970
978-619-5685

May 19, 2020

Mayor Kimberley Driscoll
Salem City Hall
93 Washington Street
Salem, MA 01970

RE: Free Cash Request for Climate Action Plan Grant Match

Dear Mayor Driscoll:

This letter is to request an allocation of $32,000 in free cash to serve as the local match for a State grant to conduct the joint Beverly-Salem Climate Action Plan.

As you know, the cities of Beverly and Salem are collaborating on this important climate action planning project. A team of staff from both municipalities began meeting several months ago to develop the scope of work. Each city is contributing an equal match to the State grant from the Executive Office of Energy and Environmental Affairs. The local funds are leveraging $187,500 in State grant funding.

Total request: **$32,000**

Sincerely,

Tom Daniel

Tom Daniel, AICP

CITY OF SALEM
ST Capital Outlay Expenditure Request Form – FY 2020

From Department: DPCD **Date:** 05/19/20

Department Head Name: TOM DANIEL

Authorization Signature: Tom Daniel

Amount: $32,000.00

Description:
Local match to State EEA grant for Beverly-Salem Climate Action Plan.

For Finance Department Use Only:

☒ City Council Approval Needed (Y/N)

CIP Balance: $ 1,798,631.01

Recommendation:

☒ Approved ☐ Denied

Finance Director

Processed: **Date:** _____ **By:** _____

CO # _____ **JE#** _____ **Trans #** _____

Org: _____ **Obj:** _____

CITY OF SALEM

In City Council, May 28, 2020

Ordered:

That the City Council hereby approves the submittal of the City of Salem's Application for Federal Assistance to the United States Department of Housing and Urban Development (HUD) for CDBG-CARES funds in the amount of $646,477, as well as the submittal of future applications for any additional allocation that the City of Salem may receive from HUD in response to COVID-19.

CITY OF SALEM, MASSACHUSETTS
Kimberley Driscoll
Mayor

Office of the Mayor

May 28, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

Last month, we received notification from the U.S. Department of Housing and Urban Development (HUD) that the City of Salem shall receive an allocation of $646,477 under the Coronavirus Aid, Relief, and Economic Security Act (CARES). In order to accept these funds, one of the steps is that the City must submit an *Application for Federal Assistance* to HUD. Enclosed herewith is an Order to authorize the submission of the City of Salem's federal application for the CARES Act funds. A copy of the application is also attached. CDBG-CARES funds will be utilized to meet urgent basic human service and economic needs in response to COVID-19.

The remaining steps to complete this process are currently underway. A Notice of Public Comment Period for an amendment to the City of Salem's Citizens Participation Plan and a Substantial Amendment to the City of Salem's FY20 Action Plan was issued and a 5-day comment period has been completed. Because Salem is part of the North Shore HOME Consortium, the City of Peabody, the Consortium's lead community, will be responsible for submitting the Substantial Amendment to HUD in the coming days.

I am asking that the City Council promptly approve the submittal of this application, so that it can be transmitted to HUD in a timely manner. It is also anticipated that one or more additional CARES Act allocations may be forthcoming. In this regard, this approval has been drafted to cover any funds allocated to the City of Salem through HUD for coronavirus response.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

OMB Number: 4040-0004
Expiration Date: 12/31/2019

Application for Federal Assistance SF-424

* 1. Type of Submission:
- [ ] Preapplication
- [x] Application
- [ ] Changed/Corrected Application

* 2. Type of Application:
- [x] New
- [ ] Continuation
- [ ] Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received:

4. Applicant Identifier: 04-6001413

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: City of Salem, MA

* b. Employer/Taxpayer Identification Number (EIN/TIN): 04-6001413

* c. Organizational DUNS: 1567710240000

d. Address:

* Street1: 98 Washington Street
Street2:
* City: Salem
County/Parish:
* State: MA: Massachusetts
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 01970/3526

e. Organizational Unit:

Department Name: Planning & Community Developme

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: Mr.
* First Name: Tom
Middle Name:
* Last Name: Daniel
Suffix:

Title: Director

Organizational Affiliation: City of Salem, Dept. of Planning & Community Development

* Telephone Number: 978-619-5685
Fax Number:

* Email: tdaniel@salem.com

Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

C: City or Township Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

U. S. Department of Housing & Urban Development

11. Catalog of Federal Domestic Assistance Number:

14-218

CFDA Title:

Community Development Block Grant

*** 12. Funding Opportunity Number:**

14-218

* Title:

CDBG-CV

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment | Delete Attachment | View Attachment

*** 15. Descriptive Title of Applicant's Project:**

CDBG-CV

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant: 6th MA
* b. Program/Project: 6th MA

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date:
* b. End Date:

18. Estimated Funding ($):

* a. Federal	646,477.00
* b. Applicant	
* c. State	
* d. Local	
* e. Other	
* f. Program Income	
* g. TOTAL	646,477.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment | Delete Attachment | View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:	
* First Name:	Kimberley
Middle Name:	
* Last Name:	Driscoll
Suffix:	
* Title:	Mayor
* Telephone Number:	978-619-5600
Fax Number:	
* Email:	mayor@salem.com
* Signature of Authorized Representative:	
* Date Signed:	

CITY OF SALEM

In City Council, May 28, 2020

Ordered:

The City Council hereby Orders that Fort Avenue, from Memorial Drive to Winter Island Road, shall be closed to thru traffic on June 5, 2020 from 5:00 p.m. to 7:00 p.m. for the purpose of holding a Salem High School Graduation car parade to honor the 2020 graduates of Salem High School. This Order shall also authorize closure on a rain date of June 6, 2020 from 1:00 p.m. to 3:00 p.m.

CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll
Mayor

Office of the Mayor

May 28, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

As you know, the COVID-19 pandemic has impacted so many of facets of our lives. Regrettably, one of those has been the cancellation or delay of many of the graduation celebrations for our students. We have a team working on a plan for a fall graduation event for our seniors, but in the interim we wanted to find some way to safety celebrate their accomplishments this spring. To that end, we are requesting the brief closure of Fort Avenue on June 5th from 5:00 p.m. to 7:00 p.m. so we can hold a rolling car parade to honor our graduates.

Chief Butler and her staff have worked in collaboration with the Salem Public Schools staff and the Salem Fire Department, to develop the plan described in her letter. I am wholly supportive of this event and hope you will approve the brief closure of this road so we can carry out this innovative plan.

While nothing can take the place of a traditional graduation ceremony, we are eager to do what we can to safely and joyfully celebrate our local scholars. If you have additional questions about this proposal, please feel free to contact Chief Butler.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

City of Salem, Massachusetts
Police Department Headquarters
95 Margin Street, Salem, Massachusetts 01970

Mary E. Butler
Chief of Police

May 18, 2020

Mayor Kimberley Driscoll
Salem City Hall
93 Washington Street
Salem, MA 01970

Re: SHS Graduation Celebration

Dear Mayor Driscoll:

The Salem Public Schools, Superintendent Kathleen Smith, and Salem High Principal, Dr. Samantha Meier, have been working to organize a SHS Graduation celebration on Friday, June 5th with a car parade of teachers and family members while the graduate is physically distanced from their classmates along the entire stretch of Fort Avenue. The pandemic has virtually cheated our High School Seniors of experiences that not only mark and celebrate the successful conclusion of a thirteen-year primary school education, but of a time where friends and classmates celebrating together are collected and preserved as one of the highlights of life.

In light of the inability to actually host a true graduation, this is one experience or memory that they can collectively share with their friends and classmates, while recognizing the need to have precautions in place to reduce the spread of the CoVID-19 virus. Both the Police Department and the Fire Department have collaborated with the Salem Public Schools to find a resolution.

As a result, we are respectfully requesting the use of the City streets, including the bicycle lane, on Fort Avenue on Friday, June 5 2020, from 5:00pm until approximately 7:00pm. We anticipate the flow of vehicular traffic will continue in both directions on Fort Avenue until just before 6:00pm, when the car parade will commence coming from the Willows, up Memorial Drive to Fort Avenue and returning to the Willows before departing the park via Memorial Drive.

We will be utilizing the bicycle lane to position students 8' to 10' apart from each other with no more than two relatives standing at least 6' behind them with standard face coverings. Fort Avenue from the entrance to Footprint Power to just past Winter Island Road provides approximately 2,700 feet to accommodate the potential 280 graduates from Salem High School, Salem Prep High School and the Salem Academy Charter School with appropriate spatial and social distancing required. As of this time, we do not know of how many students will participate, but be assured this location was chosen to accommodate all.

We are exploring the possibility of having students park their vehicles at Footprint Power and/or the City lot across from Winter Island Road. At the conclusion, an orderly departure of students will be coordinated with Salem Police Officers while ensuring all maintain proper distancing. Virtual hugs and virtual high fives will be allowed though!!

In the event of rain on June 5, 2020, we are proposing a rain date of June 6, 2020 at approximately 2:00pm, therefore, we would be requesting the use of Fort Ave and the bicycle lane from 1:00pm until 3:00pm.

We will also work with Park and Rec to restrict parking on Restaurant Row in the area of Dead Horse Beach in order to cue the cars for the parade heading up Memorial Drive.

I am available to answer any questions or concerns you may have about this proposed plan, as is Lt. David Tucker, Traffic Supervisor. Superintendent Smith and Dr. Meier also can be available to discuss this plan and the use of the street for this graduation celebration plan.

Thank you for your review and consideration of the proposed plan.

Sincerely,

Mary E. Butler
Chief of Police

Cc: Kathleen Smith, Superintendent, SPS
Dr. Samantha Meier, Principal, SHS
Chief J. Gerry Giunta, Fire Department
Lt. David Tucker, Traffic Supervisor

CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll
Mayor

Office of the Mayor

May 28, 2020

Honorable Salem City Council
Salem City Hall
Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

Our Health Agent David Greenbaum and I would like to request the opportunity to address you at your meeting of May 28th to provide the public and the City Council with an update on the City's response to the COVID-19 outbreak. Thank you.

Very truly yours,

Kimberley Driscoll
Mayor
City of Salem

City of Salem

In the year two thousand and Twenty

An Ordinance to amend an Ordinance relative to Traffic,

Be it ordained by the City Council of the City of Salem, as follows:

Section 1. Amending Chapter 42, Section 50B – "Handicap Parking, Time Limited" is hereby amended by repealing the following:

Moffatt Road, in front of #58 for a distance of eighteen (18) feet, "Handicapped Parking Only, Tow Zone."

Section 2. This Ordinance shall take effect as provided by City Charter.

City of Salem

In the year two thousand and twenty

An Ordinance to amend an Ordinance relative to Traffic, Ch. 42, Sec. 50B

Be it ordained by the City Council of the City of Salem, as follows:

Section 1. Amending Chapter 42, Section 50B – "Handicap Parking, Time Limited" is hereby amended by adding the following:

Orchard Street, in front of #18 for a distance of twenty (20) feet, "Handicapped Parking Only, Tow Zone."

Section 2. This Ordinance shall take effect as provided by City Charter.

Ilene Simons

From: Amanda Chiancola
Sent: Friday, May 22, 2020 11:29 AM
To: Ilene Simons; Maureen Fisher
Cc: Kim Driscoll; Tom Daniel; Dominick Pangallo
Subject: IZ Planning Board Recommendation
Attachments: PB IZ Rec.pdf

Good Morning,

Please find the attached Planning Board recommendation for the Inclusionary Housing Zoning Ordinance. They unanimously voted to provide a positive recommendation, no edits were suggested.

Let me know if you have any questions.

Amanda

Amanda Chiancola, AICP (she/her/hers)| Senior Planner
Department of Planning & Community Development
NEW LOCATION: 98 Washington St., 2nd Floor | Salem, MA 01970
978-619-5685 | achiancola@salem.com

Please be advised that City offices are closed to the public at least until April 7, 2020, in order to help minimize the spread of COVID-19. I will frequently check my emails while working remotely during this temporary closure. Thank you in advance for your patience and cooperation with keeping our community healthy.

CITY OF SALEM
PLANNING BOARD

Report to City Council

May 22, 2020

At its meeting on May 21, 2020 the Planning Board voted eight (8) in favor (Ben Anderson, Matt Veno, Carole Hamilton, Helen Sides, Kirt Rieder, Noah Koretz, and Bill Griset) and none opposed to recommend that the City Council approve the amendment relative Section 5 of the Salem Zoning Ordinance by adding Section 5.4, Inclusionary Housing as proposed and amending the definitions in Section 10 as proposed.

If you have any questions regarding this matter, please feel free to contact Tom Daniel, AICP, Director of Planning & Community Development, at 978-619-5685.

Yours truly,

Ben J. Anderson Chairman

CC: Ilene Simons, City Clerk

nationalgrid

May 13, 2020

City of Salem

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID covering the installation of underground facilities.

If you have any questions regarding this permit please contact:

If this petition meets with your approval, please return an executed copy to:

National Grid Contact: Vincent LoGuidice; 1101 Turnpike Street; North Andover, MA 01845
Phone 978-725-1392.

Very truly yours,

Robert Coulter

Name: Distribution Design Supervisor
Supervisor, Distribution Design

Enclosures

Questions contact – Socrates Perez Morillo 781-388-5231

Petition of the Massachusetts Electric Company d/b/a National Grid
Of NORTH ANDOVER, MASSACHUSETTS
For Electric conduit Location:

To City Council of Salem, Massachusetts

Respectfully represents the Massachusetts Electric Company d/b/a National Grid of North Andover, Massachusetts, that it desires to construct a line of underground electric conduits, including the necessary sustaining and protecting fixtures, under and across the public way or ways hereinafter named.

Wherefore it prays that after due notice and hearing as provided by law, it be granted permission to excavate the public highways and to run and maintain underground electric conduits, together with such sustaining and protecting fixtures as it may find necessary for the transmission of electricity, said underground conduits to be located substantially in accordance with the plan filed herewith marked: Cross St - Salem - Massachusetts.

The following are the streets and highways referred to:

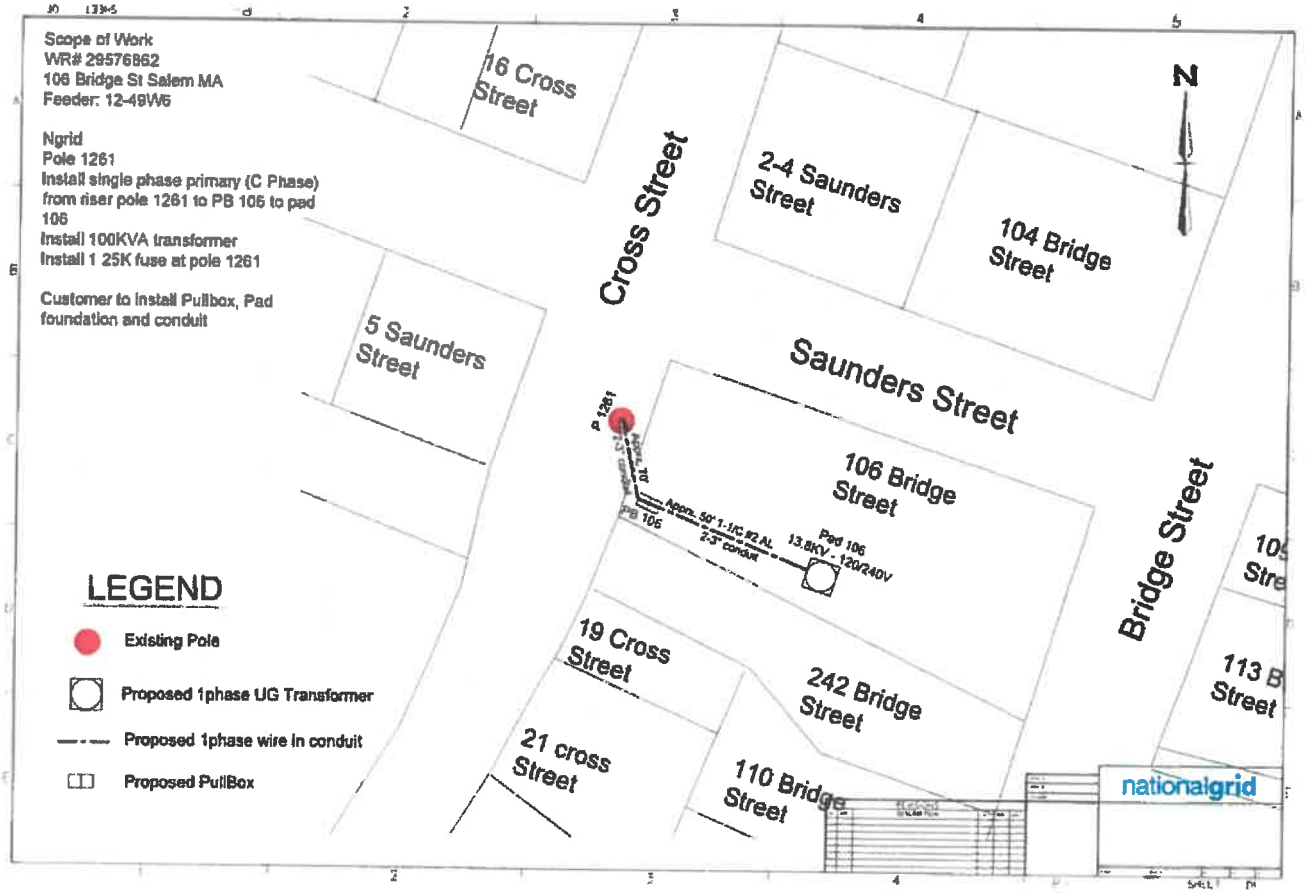
Plan # 29576862 Cross St - National Grid to install beginning at a point approximately 70 feet south of the centerline of the intersection of Saunders St and Cross St and continuing approximately 70 feet in an easterly direction. Customer will be installing 2-3" conduits from pole 1261 (Cross St) to Pullbox located inside the customer's property.

Location approximately as shown on plan attached

Massachusetts Electric Company d/b/a National Grid
BY Robert Coulter
Engineering Department

Dated: May 13, 2020

Name	*Address*	
BRIAN MCCORMICK	10 SAUNDERS	SALEM, MA
LUCIUS JUNIOR	13 SAUNDERS	SALEM, MA
AIMEE JAVUREK	5 SAUNDERS	SALEM, MA
STEVE MCCRORY	10 SAUNDERS	SALEM, MA
HAYLEY WALKUP	13 SAUNDERS	SALEM, MA
CYNTHIA CIFRINO	15 SAUNDERS	SALEM, MA
DONEECA THURSTON	10 SAUNDERS	SALEM, MA
DANIEL J DUGERY	11 SAUNDERS	SALEM, MA
LINDA JOLIE	8 SAUNDERS	SALEM, MA
VALERIE CALAMSE	12 SAUNDERS	SALEM, MA
ANJA EDOHNSDOTTER	106 BRIDGE	SALEM, MA
CYNTHIA GLENNON	16 CROSS	SALEM, MA
JOSEPH DEVINCENTIS	12 SAUNDERS	SALEM, MA
5 SAUNDERS ST CONDO TRUST	5 SAUNDERS	SALEM, MA
SHAWN ODONNELL	8 SAUNDERS	SALEM, MA
THOMAS J MCKINNON	14 SAUNDERS	SALEM, MA
JAMES BEAUDRY	5 SAUNDERS	SALEM, MA
BERNIE PIKE	10 SAUNDERS	SALEM, MA
COROLETTE GOODWIN	8 SAUNDERS	SALEM, MA
CATHERINE NIEVES	14 SAUNDERS	SALEM, MA
COMCAST CORPORATION	5 SAUNDERS	SALEM, MA
LISA STONE	5 SAUNDERS	SALEM, MA
VICTORIA BAVARO	10 SAUNDERS	SALEM, MA
LEE HANNULA	16 SAUNDERS	SALEM, MA
STEPHEN D BLACK	5 SAUNDERS	SALEM, MA


Scope of Work
WR# 29576862
106 Bridge St Salem MA
Feeder: 12-49W5
Ngrid
Pole 1261
Install single phase primary (C Phase) from riser pole 1261 to PB 106 to pad 106
Install 100KVA transformer
Install 1 25K fuse at pole 1261
Customer to install Pullbox, Pad foundation and conduit
LEGEND
Existing Pole
Proposed 1phase UG Transformer
Proposed 1phase wire in conduit
Proposed PullBox
16 Cross Street
Cross Street
2-4 Saunders Street
104 Bridge Street
5 Saunders Street
Saunders Street
106 Bridge Street
Bridge Street
19 Cross Street
242 Bridge Street
21 cross Street
110 Bridge Street
113 B Street
P 1261
Approx. 50' 1-1/C #2 AL 2-3" conduit
PB 106
Pad 106
13.8KV - 120/240V
N
nationalgrid

nationalgrid

May 21, 2020

City of Salem

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID covering the installation of underground facilities.

If you have any questions regarding this permit please contact:

If this petition meets with your approval, please return an executed copy to:

National Grid Contact: Vincent LoGuidice; 1101 Turnpike Street; North Andover, MA 01845
Phone 978-725-1392.

Very truly yours,

Robert Coulter

Name: Distribution Design Supervisor
Supervisor, Distribution Design

Enclosures

Questions contact -- Sibhita Mahabier 781-258-9169

Petition of the Massachusetts Electric Company d/b/a National Grid
Of NORTH ANDOVER, MASSACHUSETTS
For Electric conduit Location:

To City Council of Salem, Massachusetts

Respectfully represents the Massachusetts Electric Company d/b/a National Grid of North Andover, Massachusetts, that it desires to construct a line of underground electric conduits, including the necessary sustaining and protecting fixtures, under and across the public way or ways hereinafter named.

Wherefore it prays that after due notice and hearing as provided by law, it be granted permission to excavate the public highways and to run and maintain underground electric conduits, together with such sustaining and protecting fixtures as it may find necessary for the transmission of electricity, said underground conduits to be located substantially in accordance with the plan filed herewith marked: Riverway Road - Salem - Massachusetts.

The following are the streets and highways referred to:

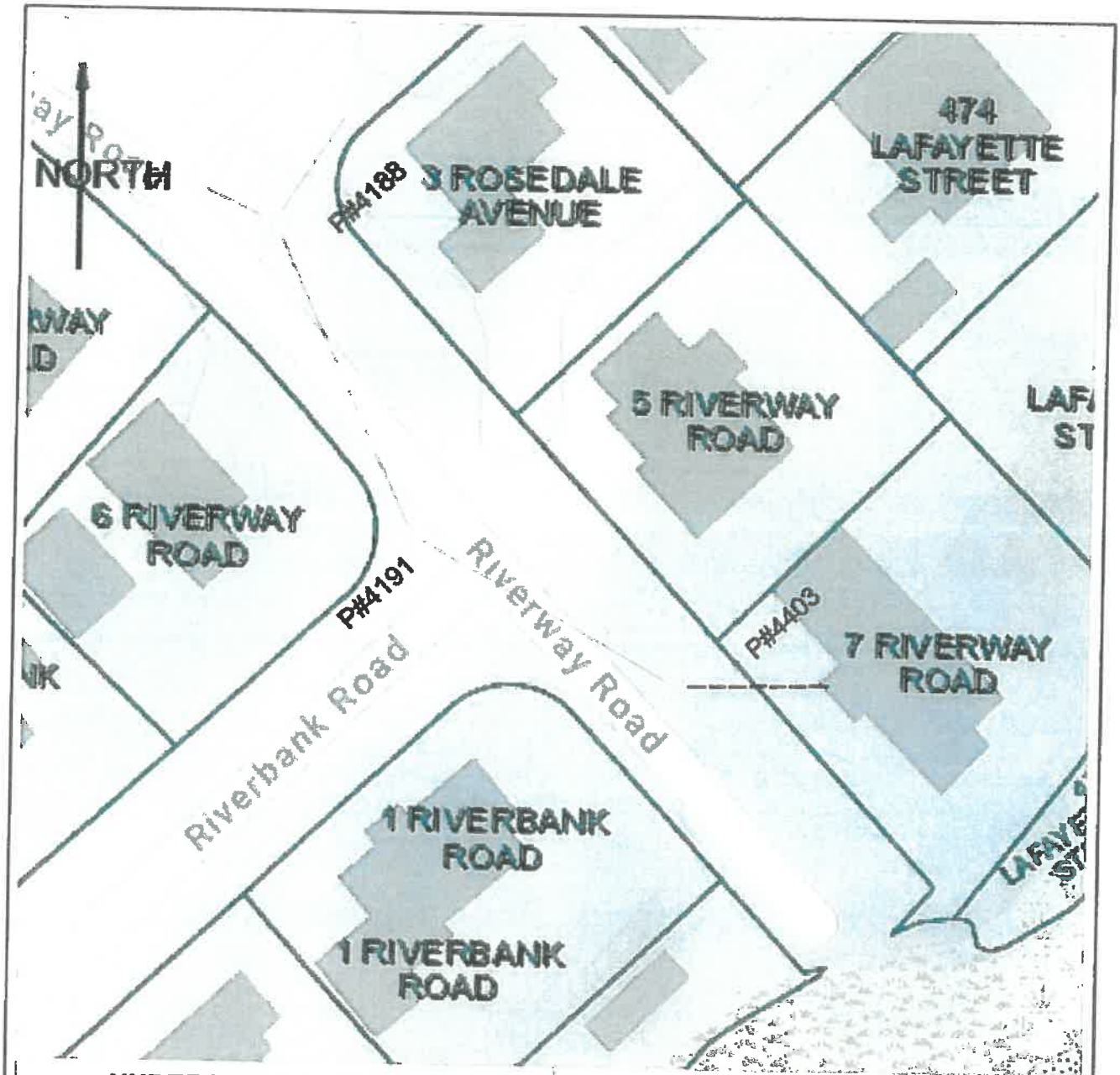
Plan # 29742063 Riverway Road - National Grid to install beginning at a point approximately 54 feet west/southwest of the centerline of the intersection of Riverbank Road & Riverway Road and continuing approximately 5+/- feet in a westerly direction. Installation of 1-3" conduit encased in concrete from P#4403 to the property line of 7 Riverway Rd.

Location approximately as shown on plan attached

Massachusetts Electric Company d/b/a National Grid
BY Robert Coulter
Engineering Department

Dated: May 21, 2020

Parcel ID	Address	Owner	Mailing Address
31-0325-0	9 Riverway Rd.	Forest River Beach Club Inc. C/O Richard Hannan, Treasurer	11 Sunset Rd., Salem, MA 01970
31-0244-0	7 Riverway Rd.	Rollins, Jared	7 Riverway Rd., Salem, MA 01970
31-0282-0	6 Riverway Rd.	Welch, Christopher H.	6 Riverway Rd., Salem, MA 01970
31-0243-0	5 Riverway Rd.	Harrison, Ronald B.	5 Riverway Rd., Salem, MA 01970
31-0245-0	1 Riverbank Rd.	Robert E. Curran Liv Rev Trust Curran, Robert & Dorothy	1 Riverbank Rd., Salem, MA 01970
31-0242-0	3 Rosedale Ave.	Muse, Roymond L. Jr. & Bonnie R.	3 Rosedale Ave., Salem, MA 01970



UNDERGROUND PETITION

POLE (EXISTING) | —— PROPOSED CONDUIT 1-3"

Sketch to accompany Petition for the Installation of 5' +/- of 1-3" PVC Conduits for the Serivce to HSE# 7 Riverway Rd., Salem, MA 01970.

DISTANCES ARE APPROXIMATE

nationalgrid

Date: 05-20-2020

WORK REQUEST: 12-20-29742063

To The: City Of Salem, MA

For Proposed: 5 ft +/- of Conduit Location: 7 Riverway Rd

Drawn By: S. Mahabier-Sheehy

COMCAST

Comcast
David R. Flewelling
Specialist 2 Construction
9 Forbes Road, Suite 9B
Woburn, MA 01801
Cell – 617-279-7864
dave_flewelling@comcast.com

May 26,2020

Ms. Maureen Fisher
Salem Assistant City Clerk
City Hall
93 Washington Street
Salem, MA 01970

RE: 65 Washington St Salem
Grant of Location-Petition

Dear Ms. Fisher:

Enclosed please find materials supporting Comcast request for a grant of location from the Salem City Council. The work associated with the attached petition is for the purpose of installing new underground conduit. To be used to provide the Comcast service to number 65 Washington Street. For a detailed description of the work please refer to the attached construction plans.

I look forward to the opportunity to address this matter in further detail at the next Salem City Council Meeting. Should you have any questions or concerns, please feel free to contact me at (617) 279-7864.

Sincerely,

David R. Flewelling
Comcast
Specialist 2, Construction

Enclosure (4)

PETITION OF COMCAST FOR LOCACTION FOR CONDUITS, MANHOLES AND POLES

To the City Council for the City of Salem, Massachusetts:

Respectfully represents Comcast Cable Communications Management LLC., a company incorporated for the distribution of broadband services, that it desires to construct a line for such broadband under the public way or ways hereinafter specified.

Church Street: Starting at the existing Comcast Vault excavating to place (1) 4" PVC Conduit 115'+/- to provide the Comcast Service to number 65 Washington Street.

Wherefore, your petition prays that, after due notice and hearing as provided by law, the City Council may by Order grant your petitioner permission to construct, and a location for, such a line of conduits, manholes and poles with the necessary wires and cables therein, said conduits manholes and poles to be located, substantially as shown on the plan made by Dewsnap Engineering dated May 21, 2020 and filed here with, under the following public way or ways of said City of Salem.

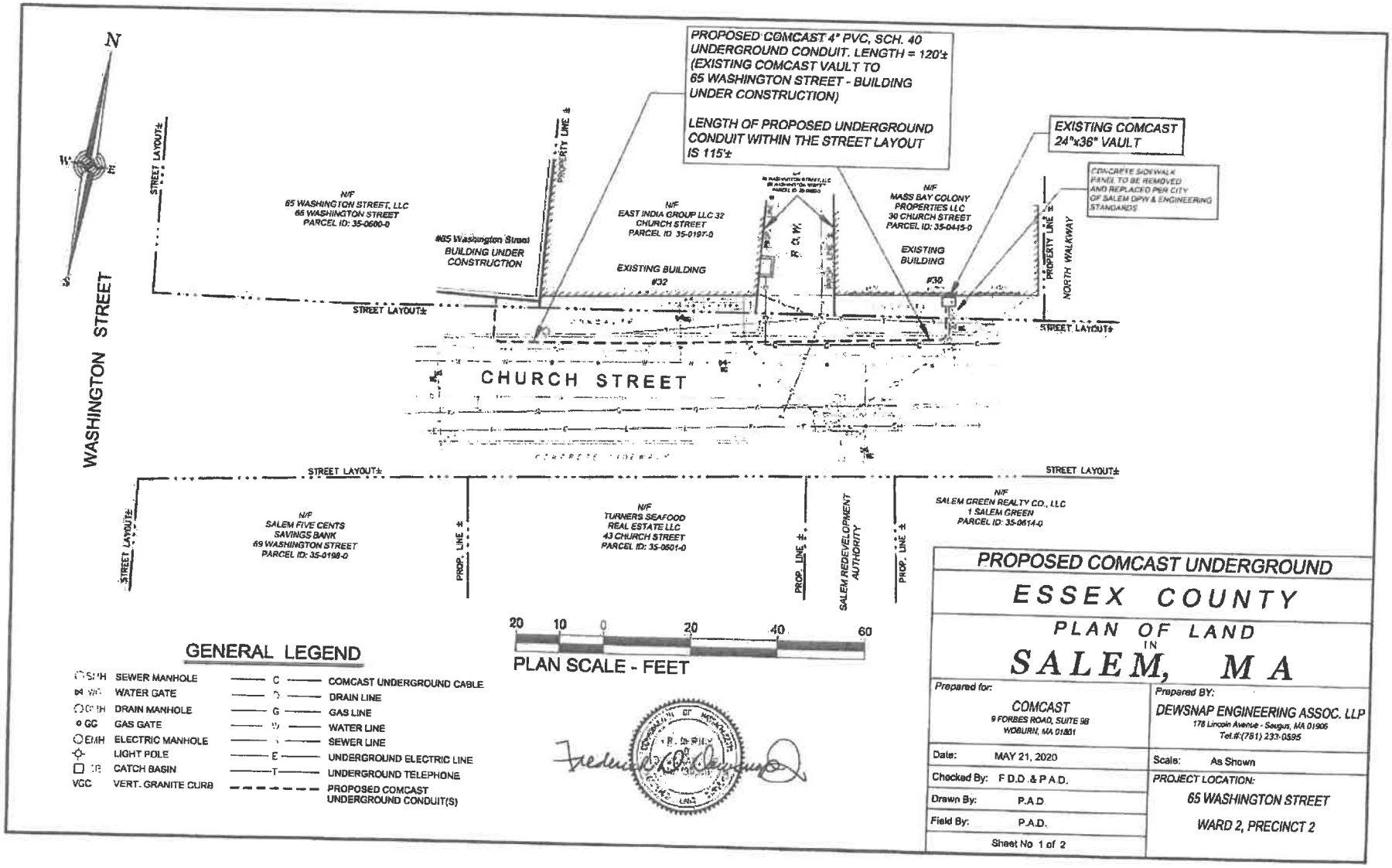
Comcast
By: _____
David R. Flewelling
Specialist 2, Construction

Dated this May 26, 2020

City of Salem Massachusetts

Received and filed _____, 2020

_____



GENERAL LEGEND

SMH	SEWER MANHOLE	C	COMCAST UNDERGROUND CABLE
WG	WATER GATE	D	DRAIN LINE
DMH	DRAIN MANHOLE	G	GAS LINE
GG	GAS GATE	W	WATER LINE
EMH	ELECTRIC MANHOLE	S	SEWER LINE
	LIGHT POLE	E	UNDERGROUND ELECTRIC LINE
CB	CATCH BASIN	T	UNDERGROUND TELEPHONE
VGC	VERT. GRANITE CURB		PROPOSED COMCAST UNDERGROUND CONDUIT(S)

PROPOSED COMCAST UNDERGROUND

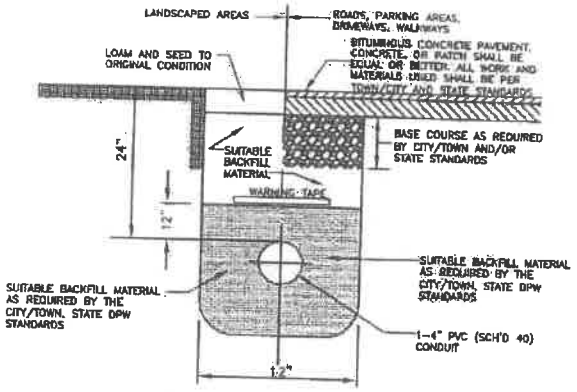
ESSEX COUNTY

PLAN OF LAND IN SALEM, MA

Prepared for: COMCAST, 9 FORBES ROAD, SUITE 98, WOBURN, MA 01801	Prepared BY: DEWSNAP ENGINEERING ASSOC. LLP, 178 Lincoln Avenue - Saugus, MA 01906, Tel.#:(781) 233-0595
Date: MAY 21, 2020	Scale: As Shown
Checked By: F.D.D. & P.A.D.	PROJECT LOCATION: 65 WASHINGTON STREET
Drawn By: P.A.D.	WARD 2, PRECINCT 2
Field By: P.A.D.	
Sheet No. 1 of 2	

DETAIL NOTE:

1. The details depicted are for general reference only. The final product used shall be the responsibility of the general contractor and shall be of equal or greater material than that depicted and shall conform to the Engineering/ DPW Standards for the state, city/town where the project is located.



GENERAL CATV TRENCH DETAIL
FOR 4" PVC, SCH. 40 CONDUIT

NOT TO SCALE

NOTES:

1. This plan was prepared from a utility plan Comcast received from Urban Spaces LLC. site contractor for 65 Washington Street and a field location tape survey performed by this office on May 19, 2020.
2. The locations of underground utilities as shown are based on above ground structures and record drawings, if any, provided to the Surveyor. The Locations of underground utilities/structures may vary from location hereon and are not warranted to be accurate and/or correct. Additional buried utilities/ structures may be encountered. No excavations were performed during the progress of this survey to locate buried utilities/structures
3. Prior to any construction the Contractor shall notify DIG-SAFE at least 72 hours in advance at 811 (National Call Number) for verification of utilities and for field locations.
4. It is the responsibility of the Utility Contractor installing the Comcast underground conduit to notify those utility companies not associated with the DIG-SAFE system to verify the locations of their respective utilities. Also, the installing contractor shall be responsible for repairing or replacing any traffic signal loops damaged during the installation of the new Comcast underground conduit.
5. All work to be performed is the installation of a Comcast 4" PVC, Sch. 40 underground conduit to service #65 Washington Street.
6. All work shall conform to the approving authorities Engineering and DPW Standards.
7. Prior to the start of any construction, the Utility Contractor shall confirm the number of conduits and the size of the conduit(s) for this project with the Comcast project Coordinator.
8. Upon completion of the trench work for the day, the contractor shall backfill, compact and pave the trench and the work area shall be broom swept clean. In grassed areas the trench shall be loamed and seeded and hay mulch spread to keep the area stabilized until the grass has taken hold.
9. Street/Property lines are not the result of a boundary survey and are considered to be approximate.

CONSTRUCTION NOTES:

1. Following the Dig-Safe "mark out" and field verification of the existing underground utilities, the Proposed 4" PVC, Sch: 40 Comcast Conduit and Proposed 3'X3' manhole shall be adjusted in the field by the utility contractor to avoid being located over any existing utilities.

"NOTES & DETAILS"

PROPOSED COMCAST UNDERGROUND

ESSEX COUNTY

PLAN OF LAND

IN

SALEM, MA

Prepared for: COMCAST, 9 FORBES ROAD, SUITE 9B, WOBURN MA 01801	Prepared BY: DEWSNAP ENGINEERING ASSOC. LLP, 178 Lincoln Avenue - Saugus, MA 01906, Tel #:(781) 233-0595
Date: MAY 21, 2020	Scale: As Shown
Checked By: F.D.D. & P.A.D.	PROJECT LOCATION: 65 WASHINGTON STREET
Drawn By: P.A.D.	WARD 2, PRECINCT 2
Field By: P.A.D.	
Sheet No. 2 of 2	

CITY OF SALEM

In the year two thousand and twenty

An Ordinance to amend and Ordinance relative to Traffic, Chapter 42, - crosswalks Including Section 50 – Prohibited in certain specified places: Section 74 – General prohibition towing zones; and Section 17A – Schedule of Fines re: Penalties

Be it Ordained by the City Council of the City of Salem, as follows

SECTION 1.

Amending Section 50, Prohibited in certain specified places by adding to the end of the section: "P. **CROSSWALKS** – Within ten (10) feet of a crosswalk on the side from which traffic approaches, or except where a sign requiring a greater distance has been erected."

Amending Section 74, General Prohibition Towing Zones by adding to the end of the section: "Upon any way within ten (10) feet of a crosswalk on the side from which traffic approaches, or except where a sign requiring a greater distance has been erected."

Amending Section 17A, Schedule of Fine re: Penalties by adding to the end of the section: "Upon any way within ten (10) feet of a crosswalk on the side from which traffic approaches, or except where a sign requiring a greater distance has been erected"....Section 50 and Section 74

SECTION 2. This Ordinance shall take effect as provided by City Charter

In City Council May 14, 2020
Adopted for First Passage by Roll Call Vote: 11 Yeas 0 Nays 0 Absent

ATTEST:

ILENE SIMONS
CITY CLERK