

Kimberley Driscoll Mayor

Office of the Mayor

April 9, 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, Rebecca Christie of 17 Marlborough Road to the Commission on Disabilities for a term of 3 years to expire April 13, 2023.

I recommend confirmation of her reappointment to the Commission and ask that you join me in thanking Ms. Christie for her continued dedicated service and commitment to our community.

Very truly yours,

Kimberley Driscoll

Kin Drivel

Mayor

City of Salem



CITY OF SALEM

In City Council,

Ordered:

April 9, 2020

That the sum of Twenty Thousand Dollars (\$20,000.00) is hereby appropriated and transferred from the "Capital Outlay Fund 2000" to the ST CIP Health Mack Park Farm Project account for the construction of a split-farm fence, French drain and irrigation pond in accordance with the recommendation of Her Honor the Mayor.



CITY OF SALEM, MASSACHUSETTS Kimberley Driscoll

Mayor

April 9, 2020

To the City Council City Hall Salem, Massachusetts

Ladies and Gentleman of the Council:

Enclosed herewith is a request to transfer twenty Thousand Dollars (\$20,000.00) within the "Capital Outlay Fund 2000" to the ST CIP Health Mack Park Food Farm Project account.

This transfer is requested to be expended for the construction of a split-rail farm fence, French drain and irrigation pond that will be used as a sustainable water supple to irrigate the farm.

I recommend passage of the accompanying Order.

Very truly yours,

Kimberley Driscoll

Mayor



MAYOR

CITY OF SALEM, MASSACHUSETTS

BOARD OF HEALTH

UR WASHINGTON STREET, 3th FLOOR SALEM, MA 01970 Tel. (978) 741-1800 health@astem.com



DAVID GREENBAUM, RS HEALTH AGENT

April 3, 2020

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

Dear Mayor Driscoli,

The Health Department would like to request funding in the amount of \$20,000 for the Mack Park Food Farm project. These funds will be needed for spring 2020 for materials and labor for the construction of a split-rail fence that will surround the perimeter of the farm, as well as a French drain and irrigation pond that will be used as a sustainable water supply to irrigate the farm.

Thank you for your consideration of this request.

Sincerely,

David Greentlaum, RS

Health Agent

Kerry Murphy, RDN

Health & Wellness Coordinator

CITY OF SALEM

ST Capital Outlay Expenditure Request Form - FY 2020

From Department: Lea H. Date: 43 20	
Department Head Name: Days Greenbaum	
Authorization Signature:	
Amount: \$ 20,000	
Description:	
Funding to be used for the Construction of the Nack Park Ford Farm Project	
For Finance Department Use Only:	
City Council Approval Needed (Y/N)	
CIP Balance: \$ 1674,513.55	
Recommendation: Approved Denied	
Finance Director	
Org Object 20002012-5846B	\mathbb{C}
Processed: Date: By:	
CO # JE# Trans #	
Org:Obj:	



CITY OF SALEM

In City Council,

Ordered:

April 9, 2020

That the sum of Ten thousand Nine Hundred Thirty-One dollars and six cents (\$10,931.06) is hereby transferred from the "City Council Advertising Account" (11112-5306) to the "Elections Overtime Account" and the "Elections Part Time Salary Account" as provided below to cover early voting costs and those costs resulting from the March 3, 2020 Presidential Primary Election in accordance with the recommendation of Her Honor the Mayor.

Description	Fund	Amount		
Election Overtime	11 6 21-5131	\$ 7,735.64		
Elections Part-Time Salary	11621-5113	\$ 3,195.42		
		\$ 10,931.06		



CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll Mayor

April 9, 2029

To the City Council City Hall Salem, Massachusetts

Ladies and Gentleman of the Council:

Enclosed herewith is a request for a transfer of Ten Thousand Nine Hundred Thirty-one dollars and six cents (\$10,931.06) transferred from the "City Council Advertising Account" (11112-5306) to the "Elections Overtime Account" and the "Elections Part Time Salary Account."

This transfer is requested to cover early voting costs resulting from the March 3, 2020 Presidential Primary Election.

I recommend passage of the accompanying Order.

Very truly yours,

Kimberley Driscoll

Mayor

City of Salem, Massachusetts Office of the City Clerk

Flene Simons Ciţy Clerk



Room 1 City Kall

March 30, 2020

The Honorable Kimberley Driscoll Mayor of Salem 93 Washington Street Salem, MA 01970

Dear Mayor Driscoll:

Attached you will find three budget transfer requests. Two are from the City Council Advertising Account and one is from free cash. Since the Elections Office has been through some unusual circumstances this year and level funded from last fiscal year, certain Election's salary and expense lines need attention.

- 1. I am transferring \$10,931.06 from City Council Advertising Account to the following two accounts:
- A. 11621-5131 Elections Overtime Account in the amount of \$7,735.64

This amount is needed to cover overtime costs for the extra hours worked during the State Mandated 5 days of Early Voting which lead to more overtime hours during that week to keep up with processing of Early Voting Ballots and Absentee Ballots and on the weekends to prepare for the March 3rd election. There was also set-up and break-down for eight polling locations for this additional election.

B. 11621-5113 - Elections Part-Time Salary Account - in the amount of \$3,195.42

This amount is needed to cover the remaining fiscal year payroll for my part-time employee. He worked additional days and hours in the election office while Rochelle, Maureen and I attended nine days of court. He also worked extra hours due to early voting and preparing for the March 3rd election.

2. I am also asking for an appropriation of \$8,090.00 to the Elections Poll Worker Account 11622-5309.

Due to 3 elections during Fiscal Year 2020, this money is to cover the remaining costs for paying poll workers who worked for the City on the March 3, 2020 Presidential Primary Election. As well as the additional workers added to help process Early Voting ballots at the polling locations that day. Minimum Wage also increased on January 1, 2020 which lead to increase costs to pay the worker.

If you have any further questions, please feel free to reach out to me.

Thank you for your consideration of this request.

Very truly yours,

Ilene Simons City Clerk

CITY OF SALEM – Finance Department Free Cash, W & S R/E, R/Res & Budget Transfer Request Form

From: City Clark Department Head Authorizing Signature Department Head Authorizing Date
Budget or R/Res To: 11621-5131 Desc: Clechars O1 Balance: Budget Amt: 5,000 Budget Amt: 40,000 From: 1112-326 Desc: Covil Advanty Balance: 10,931.07 (*Note-Please include letter to Mayor for Transfers from different Personne Non-personnel lines) Current Balance in Receipts Reserved Fund Above (if applicable) - \$ Date:
Budget Amt: Free Cash or To: Desc: Balance: Retained Earnings (W/S) (Org/Object) Raise & Appropriate Please circle one
Amount Requested: \$ 7,735.64 Reason (Be Specific) Due to March Election 5 clays of Early Voting and setup to break down of polling location for March additional O.T was paid then if there was only 2 elections
For Finance Department and Mayor's Use Only:
Budget Transfer Mayor Approval City Council Approval
Free Cash Appropriation – City Council Approval – Gen Fund Free Cash Balance
R/E Appropriation –Water \$ R/E Balance R/E Appropriation Sewer \$ R/E Balance
Receipts Reserve - City Council Approval \$
Raise & Appropriate Other
Recommendation:ApprovedDenied Finance Director
Completed: Date: By: CO # JE#: Transfer #:

CITY OF SALEM – Finance Department Free Cash, W & S R/E, R/Res & Budget Transfer Request Form

From: City Cless	Department Head Authorizing Signs	3/25-/>6 Date
Budget or R/Res Transfers To: 116 21-5// 3 (Org/Object)	Clechons Desc: Solwies P.T.	Budget Amt: 13 481, 00 Balance: 201, 51
From: 11/12-5306 (*Note - Please include letter to	Desc: Carcil Adv Mayor for Transfers from different Personn	Budget Amt: 40000 Balance: 16 931.07 rel & Non-personnel lines)
Current Balance in Receipts Reserved Fund	d Above (if applicable) - \$	Date:
Free Cash or To: Retained Earnings (W/S) (Org/Object) Raise & Appropriate Please circle one	Desc:	Budget Amt:Balance:
Reason (Be Specific) to Cover remains during Early Voling.		Election + worlded
For Finance Department and Mayor's Use (Only:	
Budget Transfer	Mayor Approval	City Council Approval
Free Cash Appropriation - City Co		Cash Balance
R/E Appropriation –Water \$	Balance R/E A	Appropriation Sewer \$
Receipts Reserve - City Council A	pproval \$R/Res	Fund Balance
Raise & Appropriate Recommendation: Approved Denie		En Diale lle
Completed: Date: By:	V	Transfer #:



CITY OF SALEM

In City Council,

Ordered:

April 9, 2020

That the sum of Eight Thousand Dollars Ninety dollars (\$8,090.00) is hereby transferred and appropriated from the "Fund Balance Reserved for Appropriation – Free Cash" account (1-3245) to the General Fund Election Poll Worker Account to cover the cost of poll workers for the March third Presidential Primary election in accordance with the recommendation of Her Honor the Mayor.

Description	Fund	Amoun	
Election Poll Worker Account	11622-5309	\$	8,090.00
		\$	8,090.00



CITY OF SALEM, MASSACHUSETTS

Kimberley Driscoll Mayor

April 9, 2020

To the City Council City Hall Salem, Massachusetts

Ladies and Gentlemen of the Council:

Enclosed herewith is an order for Eight Thousand and ninety dollars (\$8,090.00) from the "Fund Balance Reserved for Appropriation – Free Cash" account (1-3245) to the "General Fund Election Poll Worker account 11622-5309.

This request is necessary to cover the cost of poll workers for the March 3, 2020 Presidential Primary Election.

I recommend passage of the accompanying Order.

Very truly yours,

Kimberley Driscoll

Lai Drivel

Mayor

Gity of Salem, Massachusetts Office of the Gity Glerk

Flene Simons Ciţy Glerk



Room 1 City Kall

March 30, 2020

The Honorable Kimberley Driscoll Mayor of Salem 93 Washington Street Salem, MA 01970

Dear Mayor Driscoll:

Attached you will find three budget transfer requests. Two are from the City Council Advertising Account and one is from free cash. Since the Elections Office has been through some unusual circumstances this year and level funded from last fiscal year, certain Election's salary and expense lines need attention.

1. I am transferring \$10,931.06 from City Council Advertising Account to the following two accounts:

A. 11621-5131 - Elections Overtime Account - in the amount of \$7,735.64

This amount is needed to cover overtime costs for the extra hours worked during the State Mandated 5 days of Early Voting which lead to more overtime hours during that week to keep up with processing of Early Voting Ballots and Absentee Ballots and on the weekends to prepare for the March 3rd election. There was also set-up and break-down for eight polling locations for this additional election.

B. 11621-5113 - Elections Part-Time Salary Account - in the amount of \$3,195.42

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If you have any further questions, please feel free to reach out to me.

Thank you for your consideration of this request.

Very truly yours,

Ilene Simons City Clerk

CITY OF SALEM – Finance Department Free Cash, W & S R/E, R/Res & Budget Transfer Request Form

From: City Coll Department Head Authorizing Signature Date
Budget or R/Res Budget Amt: Transfers To: Desc: Balance: Budget Amt: Budget Amt:
From: Desc: Balance: (*Note - Please include letter to Mayor for Transfers from different Personnel & Non-personnel lines)
Current Balance in Receipts Reserved Fund Above (if applicable) - \$ Date:
Budget Amt: \$50,000 Free Cash or To: 1/6 22-5309 Retained Earnings (W/S) (Org/Object) Raise & Appropriate Please circle one
Amount Requested: \$ 8,090.00 Reason (Be Specific) Due to three (3) elections this fiscal year, this Money is to cover the remaining costs for paying poll- workers on March 3rd. Due to early voting had extra workers
For Finance Department and Mayor's Use Only:
Budget Transfer Mayor Approval City Council Approval
Free Cash Appropriation – City Council Approval – Gen Fund Free Cash Balance
R/E Appropriation –Water \$ R/E Balance R/E Appropriation Sewer \$ R/E Balance
Receipts Reserve – City Council Approval \$ R/Res Fund Balance
Raise & Appropriate Cother Approved Denied Finance Director
Completed: Date: By: CO # JE#: Transfer #:



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

March 26,2020

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

RE: 125 Essex 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 125 Essex 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 telecommunications under the public way or ways hereinafter specified.

Essex Street: Starting at the existing Comcast Manhole excavating to place (1) 4" PVC Conduit 31'+/- to provide the Comcast Service to number 125 Essex 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 <u>Dewsnap Engineering</u> dated <u>March 18, 2020</u> 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 March 2	6, 2020	
City of Salem	Massachusetts	
Received and filed_		, 2020

ORDER FOR CONDUIT & POLE LOCATION

In the City Council for the City of Salem, Massachusetts.

ORDERED:

That permission be and hereby is granted to Comcast Cable Communications Management LCC., to lay and maintain underground conduits, manholes and poles, with the wires and cables to be placed therein, under and above the surface of the following public way or ways as requested in petition of said Company dated March 26,2020

Essex Street: Starting at the existing Comcast Manhole excavating to place (1) 4" PVC Conduit 31'+/- to provide the Comcast Service to number 125 Essex Street..

Substantially as shown on plan, filed with said petition.

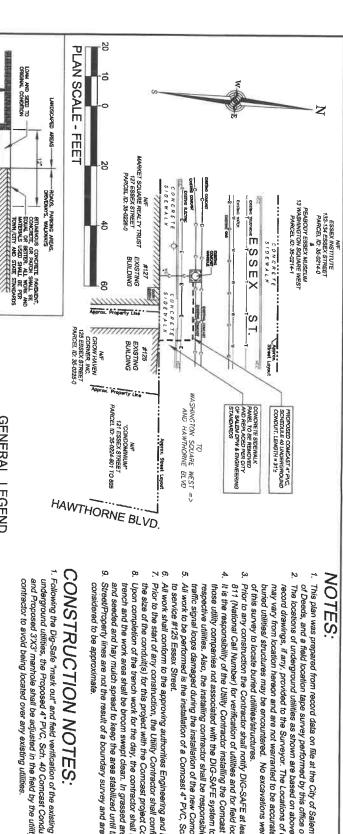
Also that permission be and hereby is granted said Comcast to lay and maintain underground conduits, manholes, cables and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as it may desire for distributing purposes.

The foregoing permission is subject to the following conditions:

- 1. The conduits and manholes shall be of such materials and construction and all work done in such manner as to be satisfactory to the City Council or to such officers as it may appoint to the supervision of the work.
- 2. Said Company shall indemnify and save the City harmless against all damages, costs and expense whatsoever to which the City may be subjected in consequence of the acts or neglect of said Company, its agents or servants, or in any manner arising from the rights and privileges granted it by the City.
- 3. In addition said Company shall, before a public way is disturbed for the laying of its wire or conduits, execute its bond in a penal sum of One Hundred Thousand Dollars (\$100,000) (reference being had to the bond already on file with said City) conditioned for the faithful performance of its duties under this permit.
- 4. Said Company shall comply with the requirements of existing by-laws and such as may hereafter be adopted governing the construction and maintenance of conduits and wires, so far as the same are not inconsistent with the laws of the Commonwealth.

I hereby certify that the foregoing	g order was adopted a	t a meeting of the City Council for the City
of Salem, Massachusetts, held on the	day of	2020.
(over)		
	· · · · · · · · · · · · · · · · · · ·	City Clerk

a public hearing was held on the peti conduits, manholes and connections, herewith recorded, that we mailed at place of said hearing to each of the of taxation along the ways parts of way	tion of the Comcast for with the wires and cable t least seven days befor owners of real estate det ys upon which the Com	o'clock M., at Salem, Massachusetter permission to lay and maintain undergroundles to be placed therein, described in the order said hearing a written notice the time and etermined by the last preceding assessment for mpany is permitted to construct the lines said
Company under said order. And that	inereupon said order wa	as duly adopted.
		W. The second se
	Salem City Counc	cil; Salem, Massachusetts
CERTIFICATE		
hearing with the notice adopted by day of	the City Council for 2020, recorded w This certified copy	ne copy of a location order, and certificate of the City of Salem, Massachusetts, on the with the records of location orders of said City by is made under the provision of Chapter 160 ereof.
		City Clerk



NOTES:

- This plan was prepared from record data on file at the City of Salem, the Essex South Registry
 of Deeds, and a field location tape survey performed by this office on March 16, 2020.
- The locations of underground utilities as shown are based on above ground structures and may vary from location hereon end are not warranted to be accurate and/or correct. Additional buried utilities/ structures may be encountered. No excavations were performed during the progress record drawings, if any, provided to the Surveyor. The Locations of underground utilities/structures
- 3. Prior to any construction the Contractor shall notify DIG-SAFE at least 72 hours in advance at of this survey to locate buried utilities/structures. 811 (National Call Number) for verification of utilities and for field locations.
- It is the responsibility of the Utility Contractor installing the Comcast underground conduit to notify 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. those utility companies not associated with the DIG-SAFE system to verify the locations of their
- All work to be performed is the installation of a Comcast 4" PVC, Sch. 40 underground conduit
- to service #125 Essex Street.

 All work shall conform to the approving authorities Engineering and DPW Standards.
- 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.
- Upon completion of the trench work for the day, the confractor 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.
- Street/Property lines are not the result of a boundary survey and are considered to be approximate.

GENERAL LEGEND

contractor to avoid being located over any existing utilities. and Proposed 3'X3' manhole shall be adjusted in the field by the utility underground utilities, the Proposed 4" PVC, Sch. 40 Comcast Conduit

BASE COURSE AS REQUIRED
BY CITY/TOWN AND/OR
STATE STANDARDS

CRIGINAL CONDITION

VGC	83 🗆	g G	OEMH	99 0	ODMH	o WG	HMS
VERT. GRANITE CURB	CATCH BASIN	UTILITY POLE	ELECTRIC MANHOLE	GAS GATE	DRAIN MANHOLE	 WG WATER GATE 	OSMH SEWER MANHOLE
1			s	w	ြ ြ		°
PROPOSED COMCAST UNDERGROUND CONDUITS	UNDERGROUND TELEPHONE	UNDERGROUND ELECTRIC LINE	SEWERLINE	WATER LINE	GAS LINE	OVERHEAD WIRES	COMCAST UNDERGROUND CABLE

SUTTABLE BACKFILL
MATERIAL AS REQUIRED
BY THE CITY/TOWN,
STATE DPW STANDARDS

-1-4" PVC (SCH'D 40)



DETAIL NOTES.

GENERAL CATV TRENCH DETAIL

SUITABLE BACKFILL
MATERIAL AS REQUIRED
BY THE CITY/TOWN.
STATE DPW STANDARDS

12*

The details depicted are for general reference only. The final product used shell be the responsibility of the general contents and shall be of equal or greater material than that depicted and shall contain to the EnglishmenthysDPW Standards for the oblythem when the project is located.

	Field By:		Drawn By:	Checked I Drawn By	Date: Checked I Drawn By	Date: Checked I	Prepared for: Date: Checked By: Drawn By:	Prepared Date: Checked I Drawn By	Prepared Date: Checked I	Prepared Date: Checked I
Sheet No. 1 of 2	P.A.D. & A.P.D.		r. P.A.D.	3y: F.D.	MARCH 18, 2020 By: F.D.D. & P.A.D. F.A.D.	%	9FO NA NA	9FO	S A for COMCA showers now modures, m MARCH 18, yr. F.D.D. & P.A.D.	ES S A S PORES FORMAN MARCH 18. WARROW 18. PAD. 8 P.A.D.
	A.P.D.	N.D.		P.A.D.	18, 2020 LP.A.D.	ACAST NOAD, SUITE BB N, MACHBOY 18, 2020 LP.A.D.	ИСАST комо, зипе ве и ма отвот 18, 2020 1 Р.А.D.	SALEM COMCAST ROBURN MA CHOCK PA D.D. & P.A.D. P. P	PLAN OF LAND ALE M, M ALE M, M MOAST DEWSINAP ENGIN 178 LINCOLD AVEN 178 LINCOLD AVEN 18, 2020 Scale: As Shown 1PAD. PROJECT LOCATION	ESSEX PLAN PLAN SALE COMCAST GRENE PAD. D.D. & PAD.
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	WARD 1, PRECINCT 1	125 ESSEX STREET	OCATIO	AS SHOWN		VAP ENGINEERING ASSC 178 Lincoln Avenue - Seugus, MA 01908 Tel.#(781) 233-0595	DENGII	M ENGII	A N L A N L C C C C C C C C C C C C C	A N E A N E ENGI Tel.#(7)
	, PRE	SEX S	ON:	OWN		ENGINEERING , con Avenue - Seugus, M Tel.#:(781) 233-0595	INEER	M A ENGINEERING Tol.#(7781) 233-05	NEER (781) 23:	D D INEER
	CINC	STREE				RING / Bugus, M	RING / Baugus, M. 233-0595	A RING / Baugus, M	A Saugus, M	RING A
	ICT 1	EET				DEWSNAP ENGINEERING ASSOC, LLP 178 Lincoln Avenue - Saugus, MA 01908 Tel.#5(781) 233-0355	3 ASSO 1 MA 01908	G ASSO 1, MA 01908	G ASSO 585 585	G ASSO
						©C. LL	9C. LL	%C. F.	%C. LL	%C. LT.

03/26/2020	Salem
8:57:29AM	Abutters List

Subject Parcel ID: B

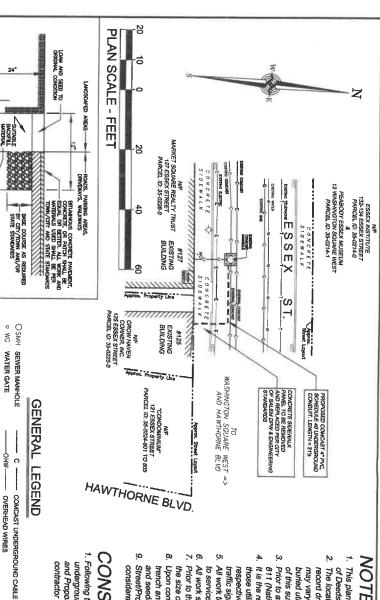
Subject Property Location:

ParcellD	Location	Owner	Co-Owner	Mailing Address	Cify	State	State Zip
35-0214-0 35-0224-801 35-0224-802 35-0224-803 35-0224-804 35-0224-805	132 134 ESSEX STREET 121 ESSEX STREET U1 121 ESSEX STREET U2 121 ESSEX STREET U3 121 ESSEX STREET U4 121 ESSEX STREET U5 125 ESSEX STREET	ESSEX INSTITUTE SALEM HERITAGE VENTURES, L. C/O ATOMIC COFFEE ROAS 107 WATER STREET GOES KATHERINE M. 2 HAWTHORNE BLVD 2-4 HAWTHORNE LLC SUMMER NORTH LAND HOLDING CROW HAVEN CORNER, INC. 125 ESSEX STREET	C/O ATOMIC COFFEE ROAS	0 U2 0 UNIT	SALEM DANVERS SALEM 2 SALEM WINCHESTER BOSTON SALEM	M M M M M M M M M M M M M M M M M M M	01970 01923 01970 01970 01890 02116
0-0220-00	_	MARKET SQUAKE REALTY LLC		55 C BRACKETT PLACE	MARBLEHED	MΑ	01945

End of Report

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Parcel Count:



NOTES:

- 1. This plan was prepared from record data on file at the City of Salem, the Essex South Registry
- 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 buried utilities/ structures may be encountered. No excavations were performed during the progress may vary from location hereon and are not warranted to be accurate and/or correct. Additional of Deeds, and a field location tape survey performed by this office on March 16, 2020.
- Prior to any construction the Contractor shall notify DIG-SAFE at least 72 hours in advance at of this survey to locate buried utilities/structures.
- 811 (National Call Number) for verification of utilities and for field locations.
 It is the responsibility of the Utility Contractor instelling 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.
- to service #125 Essex Street. All work to be performed is the installation of a Comcast 4" PVC, Sch. 40 underground conduit
- All work shall conform to the approving authorities Engineering and DPW Standards.

 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.
- Upon completion of the trench work for the day, the contractor shall backfill, compact and pave the and seeded and hay mulch spread to keep the area stabilized until the grass has taken hold. trench and the work area shall be broom swept clean. In grassed areas the trench shall be loamed
- Street/Property lines are not the result of a boundary survey and are considered to be approximate.

CONSTRUCTION NOTES:

 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.

DETAIL NOTES

GENERAL CATV TRENCH DETAIL

SUTABLE BACKFILL
MATERIAL AS REQUIRED
BY THE CITY/TOWN,
STATE DPW STANDARDS

12"

IS TAPE

SUTABLE BACKFOLL
MATERIAL AS REQUIRED
BY THE CITY/TOWN,
STATE DPW STANDARDS

8 £ 0 b

VERT. GRANITE CURB CATCH BASIN UTILITY POLE GAS GATE DRAIN MANHOLE

PROPOSED COMCAST UNDERGROUND CONDUITS UNDERGROUND ELECTRIC LINE

UNDERGROUND TELEPHONE

HMOO

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¥ 1

GAS LINE WATER LINE

SEWER LINE

OEMH ELECTRIC MANHOLE

1-4" PVC (SCH'D 40) CONDUIT

The defaults depicted are for perment references only. The finel product used shall be the responsibility of the general references only. The finel product used shall be the responsibility of the general references and shall be of equal or greater malerial than that depicted and shall conform to the Engineering-DEPM Standards for the objivitions where the project is located.

PROPOSED COMCAST UNDERGROUND S ESSEX ALEMPLAN OF COUNTY LAND

rightien on the		Prepared SY:	dr.
	COMCAST 9 FORBES ROAD, SUITE 98 WOBURN, MA 01801	DEWSN.	DEWSNAP ENGINEERING ASSOC. LLP 178 Lincoin Avenue - Saugus, MA 01906 Tel.#:(781) 233-0586
Date:	MARCH 18, 2020	Scale:	As Shown
Checked By:	Checked By: F.D.D. & P.A.D.	PROJECT	PROJECT LOCATION:
Drawn By:	P.A.D.		125 ESSEX STREET
Field By:	P.A.D. & A.P.D.		WARD 1, PRECINCT 1
	Sheet No. 1 of 2		

nationalgrid

March 26, 2020

City of Salem

To Whom It May Concern:

Enclosed please find a petition of NATIONAL GRID and VERIZON, covering joint NATIONAL GRID-VERIZON pole location(s)

If you have any questions regarding this permit please contact:

Please notify National Grid's Vincent LoGuidice of the hearing date / time at 978-725-1392 or Vincent.LoGuidice@NationalGrid.com.

If this petition meets with your approval, please return an executed copy to each of the above named Companies.

National Grid Contact: Vincent LoGuidice; 1101 Turnpike Street; North Andover, MA 01845

Very truly yours,

Robert Courter

Name: Distribution Design Supervisor Supervisor, Distribution Design

Enclosures

Questions contact - Elizabeth Cardarelli 978-380-8813

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

North Andover, Massachusetts

To the City Council
Of Salem, Massachusetts

Massachusetts Electric Company d/b/a National Grid and Verizon New England, Inc requests permission to locate poles, wires, and fixtures, including the necessary sustaining and protecting fixtures, along and across the following public way:

Ferry St and Waite St - National Grid to install 2 JO Poles (1) on Ferry St and (1) on Waite St beginning at a point approximately 150 feet SE of the centerline of the intersection of Bridge St and continuing approximately 100 feet in a SE direction. National Grid to install 2 JO Poles, 1 on Ferry St and 1 on Waite St.

Location approximately as shown on plan attached

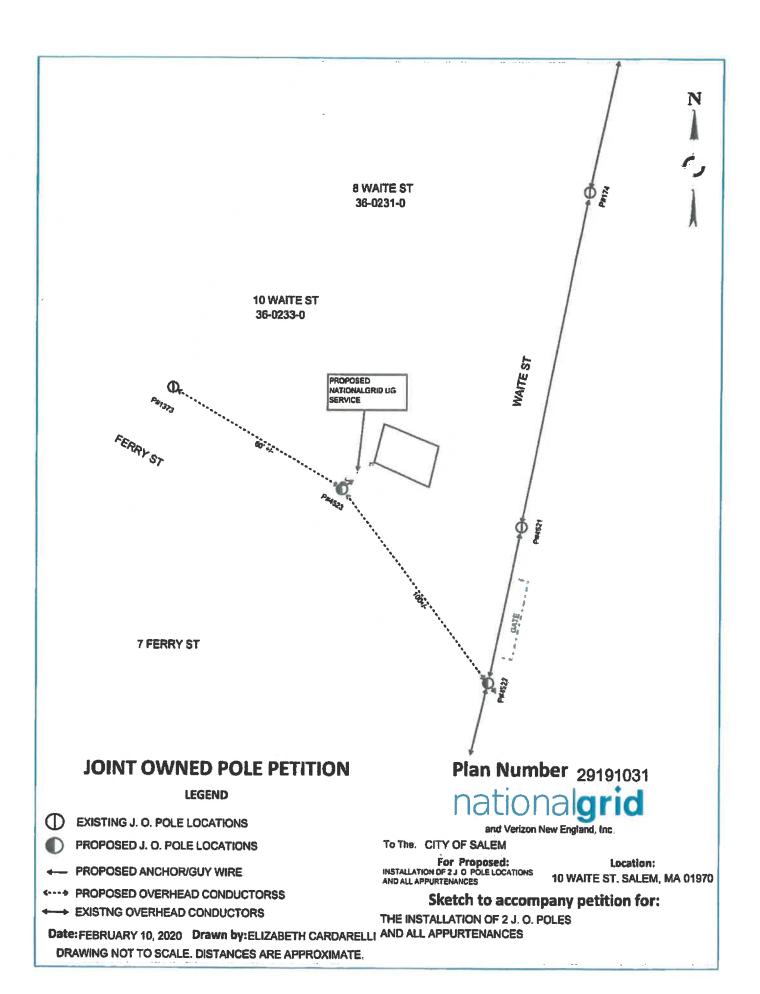
Wherefore it prays that after due notice and hearing as provided by law, it be granted a location for and permission to erect and maintain poles and wires, together with such sustaining and protecting fixtures as it may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked – Ferry St and Waite St - Salem – Massachusetts.

No.# 29191031 February 24, 2020

Also for permission to lay and maintain underground laterals, cables, and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

Your petitioner agrees to reserve space for one cross-arm at a suitable point on each of said poles for the fire, police, telephone, and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

Massachusetts Electric Company d/b/a National Grid
BY Robert Coulter
Engineering Department
VERIZON NEW ENGLAND, INC.
Manager / Right of Way



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.

on the end country gorda for a grant or location paradant to Mice on aptor 100, decition 22.
Right of Way Location Requested: 301 PERBY St. /42.588759, 70.888482
Application Fee Received: Yes Check No. 6477 Date: 2/27/20 City Electrician Approval:
BUSINESS NAME Corporate name: VERIZON WIRELESS
d/b/a:
Address: 18 FLANDERS Rd 300 FLOOR NESTEDOCOUGH, M.A. 01581 Tele. #
CONTACT: BRYAN SARCH / AGRAST W / ALKOSMITH DEVELOPMENT
Street: 318 WEST AVE Tele. # 490-734-4770
City: <u>SARATOON SPRINGS</u> State: NY Zip: <u>19866</u>
Email Address: BOARCHI @ AIROGAITH PEVEL OPINENT COM
Pole Ownership
To be attached to utility-owned poleTo 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? YesNo

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 City Hall Annex, 98 Washington Street	Engineering Department City Hall Annex, 98 Washington Street	3/30/20 W DATE
Salem Historical Commission City Hall Annex, 98 Washington Street A Color	Office of Information Technology 29 Highland Avenue	S(U/UZO DATE

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

Verizon Wireless: SALEM_SC24_MA

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 #3502/84, located in the right of way adjacent to 201 Derby Street 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 SC24 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 #3502/84, located in the right of way near the property line of 201 Derby Street 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



CITY OF SALEM

Engineering Department

98 Washington Street, 2nd floor Salem, MA 01970 Phone: (978) 619-5673

David H. Knowlton, P.E. City Engineer/DPS Director

MEMORANDUM

To:

Victoria Caldwell, Assistance City Solicitor

From:

Deborah L. Duhamel, PE, Assistant City Engineer

Subject:

Verizon – Request for Grant of Location

Date:

March 30, 2020

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles at the following locations:

13 Washington Square/1 Brown Street 8 Loring Ave 389 Lafayette Street 28 Raymond Road 198 Loring Ave 201 Derby Street

Engineering requests the following conditions:

(1) Provide detailed construction schedule for all phases at each site.

- (2) Provide traffic management plan for each site/phase, showing at a minimum, where equipment will be and how traffic and pedestrian travel will be maintained, if parking spots will be needed, and if a detail will be required.
- (3) Coordinate with DPS (978-744-3302) prior to installing grounding rod to confirm City utilities and property services are clear of rod location.
- (4) Repair any damage caused by work to the satisfaction of the City Engineer.



KIMBERLEY DRISCOLL MAYOR

TOM DANIEL, AICP DIRECTOR

CITY OF SALEM, MASSACHUSETTS DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

98 WASHINGTON STREET ♦ SALEM, MASSACHUSETTS 01970 TELE: 978-619-5685 ♦ FAX: 978-740-0404

MEMO

To: Brennan Corriston, Staff Planner and Victoria Caldwell, Assistance City Solicitor

From: Patti Kelleher, Preservation Planner

Date: March 10, 2020

RE: Request for Grant of Location for Cell Antenna Attachment

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles on Washington Square, Loring Avenue, Lafayette Street, Raymond Road and Derby Street. As indicated on the submitted Utility Pole Photograph and Elevation drawings for each property, the "cantenna" (a 28.7" can with a 12 diameter) would extend 3' from the top of the telephone pole and would include five (5) additional attachments and a covered cable on the side of each affected telephone pole (with the lowest attachment located 8' above sidewalk). Several of these attachments are significant in size, including the Remote Radio Head Unit (RRHU), which is 15" tall x 15" wide x 10" deep. A visual survey of existing cell attachments in the city indicates that the Verizon proposal includes significantly more pieces of equipment than other attachments to City poles. I recommend that the City ask Verizon to reduce or consolidate the number of attachments and place them higher on the pole. If the number of attachments cannot be reduced or consolidated, I recommend that the attachments be placed closer to the top of the telephone pole and painted to match pole color in order to reduce the visual clutter at the pedestrian view.

As part of the review for cell attachments, a determination must be made that the location of the attachments will not impact the city's historic resources. Therefore, I have reviewed the submitted plans and offer the following comments:

389 Lafayette Street, 8 Loring Avenue, 28 Raymond Road and 198 Loring Avenue

None of these properties are designated in a local or National Register historic district and only 8 Loring Avenue has been inventoried (SAL.4390). Therefore, I find that the proposed attachments will not impact historic resources.

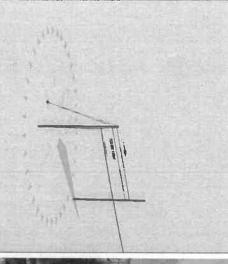
201 Derby Street

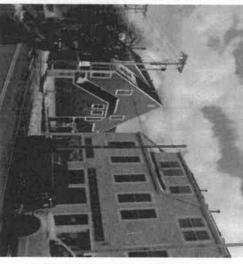
While not in a local or National Register historic district, this pole is located directly adjacent to the entrance to the Derby Street Local Historic District as well at the entrance to the Salem Maritime National Park. Moving it closer to the intersection of Derby, Hawthorne Boulevard and Congress Street would be preferable but utilities in this area are buried and the only poles that exist are metal light poles.

13 Washington Square/1 Brown Street

The proposed attachment in front of 13 Washington Square/1 Brown Street is located in the Washington Square Local Historic District and the Salem Common National Register District. The building at 1 Brown Street (SAL.2459) was recently restored by the Peabody Essex Museum, which is also undertaking extensive landscape restoration on their property adjacent to this building. In addition, Brown Street is a narrow residential street and the proposed design of the installation indicates that the cantenna will be mounted onto a bracket that overhangs the street. The ancillary equipment and cable will be located on the side of the telephone pole and will add visual clutter to an historic streetscape.

0 Feet	0.000000 Deg Elevation:		0.000000 Deg Longitude:	Latitude:
	4.00	No Wind Pressure (psf):	Unset Fiber Stress Ht. Reduc:	Aux Data 6
1.90	39.53 Vertical LF:	6,800 Wind Speed (mph):	Unset Allowable Stress (psi):	Aux Data 5
1.30	0.50 Wire Tension LF:	8,000 Ice Thickness (in):	Unset G/L Fiber Stress (psi):	Aux Data 4
1.75	Heavy Transverse Wind LF:	28.00 Loading District:	Unset G/L Circumference (in):	Aux Data 3
0.85	C Pole Strength Factor:	5.89 Construction Grade:	Unset Setting Depth (ft):	Aux Data 2
Guy Wires Adequate	Rule 250B Status G	SOUTHERN PINE NESC Rule:	Unset Species: SOUTHI	Aux Data 1
Deadend	NESC Structure Type:	30 / 5 Code:	3502-84_DERBY ST Pole Length / Class:	Pole Num:





Pole Capacity Utilization (%)		Height	Wind Angle
		(ft)	(deg)
Maximum	43.4	17.7	0.0
Groundline	24.4	0.0	82.0
Vertical	4.1	20.6	270.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	7,172	180.0	0.0
Groundline	8,687	0.0	82.0
GL Allowable	39,387		

uate	Adequate	Adequate	Adec	ty Summary:	System Capacity Summary:		
0.0	7.0	0.0	6.3	23.7			12.5M (Down)
0.0	21.8	0.0	19.8	21.9			12.5M (Down)
0.0	16.2	0.0	14.7		180.0	12.0	Single Helix Anchor
0.0	0.0	0.0	0.0	23.5			12.5M (Span/Head)
0.0	0.0	0.0	0.0	21.8			12.5M (Span/Head)
0.0	0.0	0.0	0.0		0.0	42.0	Stub Pole
Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)	Nominal Capacity (%)	Height (ft)	Lead Angle (deg)	Lead Length Lead Angle (ft) (deg)	Description
ximum Load ad Applied	Individual Maximum Load With Overload Applied	Load From Worst Wind Angle on Pole	Load From Angle				Guy System Component Summary

² Worst Wind Per Guy Wire

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 0.0°	y - Reporting A	ngle Mode: Lo	pad - Reportin	g Angle: 0.0°						
	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	2,308	221.2	30,156	347.1	76.6	7,072	257	4	7,076	104.1
GuyBraces	-1,370	-131.3	-22,465	-258.6	-57.0	-5,268	3,960	63	-5,205	-76.5
Pole	105	10.1	992	11.4	2.5	233	849	14	246	3.6
Insulators	0	0.0	4	0.1	0.0	1	2	0	<u> </u>	0.0
Pole Load	1,043	100.0	8,687	100.0	22.1	2,037	5,068	81	2,118	31.2
Pole Reserve Capacity			30,700		77.9	4,763			4,682	68.8

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 0.0	- Reporting An	gle Mode: Loa	d - Reporting	Angle: 0.0°						
	Shear Load*	Applied Load	Bending Moment	Applied Moment	Pole Capacity	Bending Stress	Vertical Load	Vertical Stress	Total Stress	Pole Capacity
NGrid	938	89.9	7,695	88.6	19.5	1,805	4,219	68	1,872	27.5
Pole	105	10.1	992	11.4	2.5	233	849	14	246	3.6
Totals:	1,043	100.0	8,687	100.0	22.1	2,037	5,068	81	2,118	31.2

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	Secondary	Power
	TRIPLEX 1/0 10-5	
	NGrid	Owner
	17.70	Height (ft)
	5.64	Horiz. Offset (in)
	1.0300	Cable Diameter (in)
	2.46	Sag at Max Temp (ft)
	0.399	Cable Weight (lbs/ft)
	200.0	Lead/Span Length (ft)
	0.0	Span Angle (deg)
	200.0	Wire Length (ft)
Totals:	1,775	Tension (lbs)
40,843	40,843	Tension Moment* (ft-lb)
120	120	Offset Moment* (ft-lb)
0	0	Wind Moment* (ft-lb)
40,963	40,963	Moment at GL* (ft-lb)

	Spool	Insulator
	Spool Insulator	
	NGrid	Owner
	17.70	Height (ft)
	0.00	Horiz. Offset (in)
	0.0	Offset Angle (deg)
	0.0	Rotate Angle (deg)
	1.00	Unit Weight (lbs)
	2.50	Unit Diameter (in)
Totals:	2.12	Unit Length (in)
_	1	Offset Moment* (ft-lb)
U1	5	Wind Moment* (ft-lb)
თ	5	Moment at GL* (ft-lb)

² Worst Wind Per Guy Wire

O-Calc® Pro Analysis Report

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	Span/Head	NGrid	21.81	21.81	42.00	0.343	75.00	0.0	0.0	0.208	39.65	0.00
12.5M	Span/Head	NGrid	23.52	23.52	42.00	0.343	75.00	0.0	0.0	0.208	39.66	0.00
12.5M	Down	NGrid	21.86	0.00	12.00	0.343	100.00	180.0	61.0	0.208	28.63	0.36
12.5M	Down	NGrid	23.67	0.00	12.00	0.343	100.00	180.0	62.9	0.208	30.31	0.12

	12.5M	12.5M	12.5M	12.5M	Guy Wire and Brace (Loads and Reactions
	Down	Down	Span/Head	Span/Head	Brace Pactions)
	2.30e+7	2.30e+7	2.30e+7	2.30e+7	Elastic Modulus (psi)
	12,500	12,500	12,500	12,500	Rated Tensile Strength (lbs)
	0.90	0.90	0.90	0.90	Guy Strength Factor
	11,250	11,250	11,250	11,250	Allowable Tension (lbs)
	700	700	700	700	Initial Tension (lbs)
	784	2,448	0	0	Loaded Tension* ² (lbs)
	713	2,226	0	0	Maximum Tension ² (lbs)
Totals:	713	2,226	0	0	Applied Tension ³ (lbs)
2,582	635	1,947	0	0	Vertical Load (lbs)
1,403	325	1,079	0	0	Shear Load In Guy Dir (lbs)
-1,403	-325	-1,079	0	0	Shear Load At Report Angle (lbs)
-30,516	-7,528	-23,037	26	24	Moment at GL³ (ft-lb)

Single Helix Anchor	Stub Pole	Anchor/Rod Load Summary
NGrid	NGrid	Owner
18.00	30.00	Rod Length AGL (in)
12.00	42.00	Lead Length (ft)
180.0	0.0	Lead Angle (deg)
20,000	20,000	Strength of Assembly (lbs)
1.00	1.00	Anchor/Rod Strength Factor
20,000	20,000	Allowable Load (lbs)
3,232	0	Max Load² (lbs)
2,938	0	Load at Pole MCU³ (lbs)
16.2	0.0	Max Required Capacity ² (%)

24.39	1236.08	122,369	24.11	57.00	60.00	2.13e+6	8.92	6.05	4.02	8.08	34.12	20.59	0.71
Buckling Load Factor of Safety	Buckling Load Applied at Height (lbs)	Buckling Load Capacity at Height (lbs)	Pole Tip Height (ft)	Ice Density (pcf)	Pole Density (pcf)	Modulus of Elasticity (psi)	Diameter at GL (in)	Diameter at Tip (in)	Minimum Buckling Diameter at GL (in)	Buckling Section Diameter (in)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Column Height* (ft)	Buckling Constant
												ng	Pole Buckling

² Worst Wind Per Guy Wire

3 Wind At 0°



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.

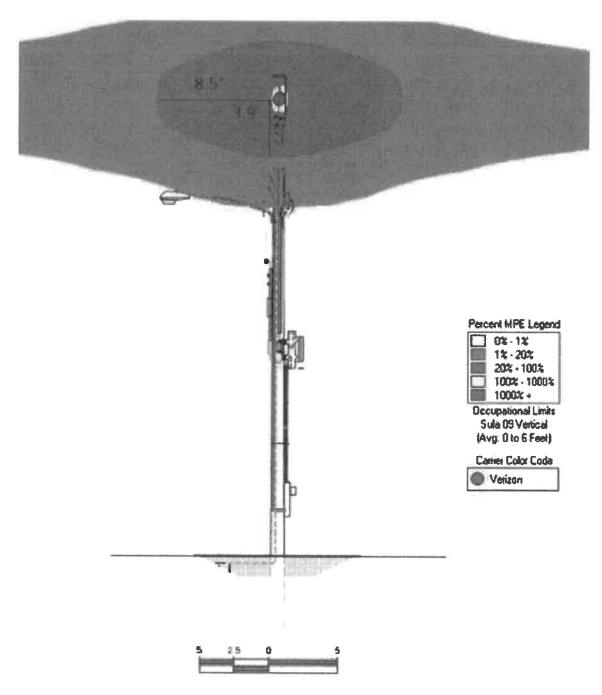
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

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
Elimin	20 to 100	
	Greater Than 100	Contact VZW Before Accessing This Area
	Greater Than 1000	

Property Owner Responsibilities

(M.E.N.C)

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

- -> Maintaining all necessary wireless licensee contact information.
- a Controlled Environment). Linsuring all Unforcing restricted access (help maintain follow all appropriate entry and safety that the potential for exposure exists, and building/maintenance personnel are aware
- Ü Notifying all licensees when any antennas at least 24 hours in advance. non-carrier requests access to any area with
- IJ FCC and OSHA can be achieved with RF and willingness to cooperate are essential. implemented. Commitment to compliance barrier, and access restrictions are Exposure levels above the applicable limit if Understanding that compliance with the the proper signage, physical/indicative



In The Event That Emergency Maintenance is Required For General RF Safety & Awareness Questions 24-Hour Network Operations Center: E-mail: YZWRFCompliance@vzw.com E-mail Subject: "ATTN: RF Compliance" Verizon Wireless

1-800-264-6620

Otech Communications RF Safety & Awareness Training Contacts

EBI Consulting (michelle@dtechcom.com.)

spenta@ebiconsulting.com

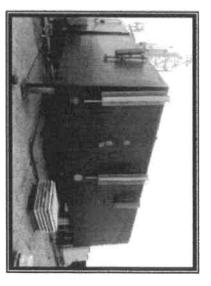
(cbagley@sitesafe.com)

Waterford Consultants

anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions





Federal Compliance Requirements

standards incorporate prudent margins of safety. The following related to RF biological effects. The FCC explains that its engineers after extensive reviews of the scientific literature tion. The standards were developed by expert scientists and with numerous other federal agencies, including the Maximum Permissible Exposure (MPE) limits, in consultation sites. The FCC developed those standards, known as established safety guidelines relating to RF exposure from cell The Federal Communications Commission (FCC) has represents an overview of the most applicable information: istration, and the Occupational Safety and Health Administra-Environmental Protection Agency, the Foud and Drug Admin-

Classifications for Exposure Limits

Occupational

Persons are "exposed as a

exercise control over their tial for exposure and can "Jully aware of the poten employment" and are consequence of their exposure

Any persons that "may not

be made fully aware of the potential for exposure or cannot exercise control over their exposure".

Courto

Those in this category do not have RF Safety & Awareness Training.

Ensuring Compliance With FCC Guidelines

sonnel exposures in excess of the FCC guidelines. susceptible to high power deasities that could cause per-Areas or portions of any transmitter site may be

Wireless Licensees are required by law to implement the

- 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 exceed the FCC's limits. access point) where RF exposure levels may start to indicators in an area with antennas (beyond an

Compliance Materials



Notification Signage

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



100 miles

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



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



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



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

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



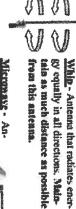
Antenna Safety

Antenna Types

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

as pointing. eral direction that the antenna antenas. Stay out of the gento very wide. Walk behind this gy beam can range from narrow energy in one direction. RF ener-Panel - Antenna that radiates





from this antenna. tain as much distance as possible

direction. RF energy has a narrow antenna. beam. Walk under or behind this tenna that radiates energy in one



When In An Environment With Antennas:

- IJ Maintain at least a 3-foot clearance from all preferred. antennas. A 10-foot separation distance is
- U Never touch an antenna. Assume all are active.
- U Read and obey ALL signs on an access point
- Ų with antennas. Read and obey ALL signs in the environment
- Ų Never walk past an indicative burrier without first confirming transmitter inactivity.
- IJ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.
- Ų Contact all wireless licensees at least 24 hours in advance of scheduled maintenance.





UTILITY POLE #3502/84 201 DERBY STREET SALEM, MA 01970

PRESIDING POWER COMPANY nationalgrid



verizon

"Baceuse Better Metters"



201 BOSTON POST ROMD WEST, SUITE 101
MAELBORQUASI, MA. 01752
(508) 481-7400
www.choppellengineering.com

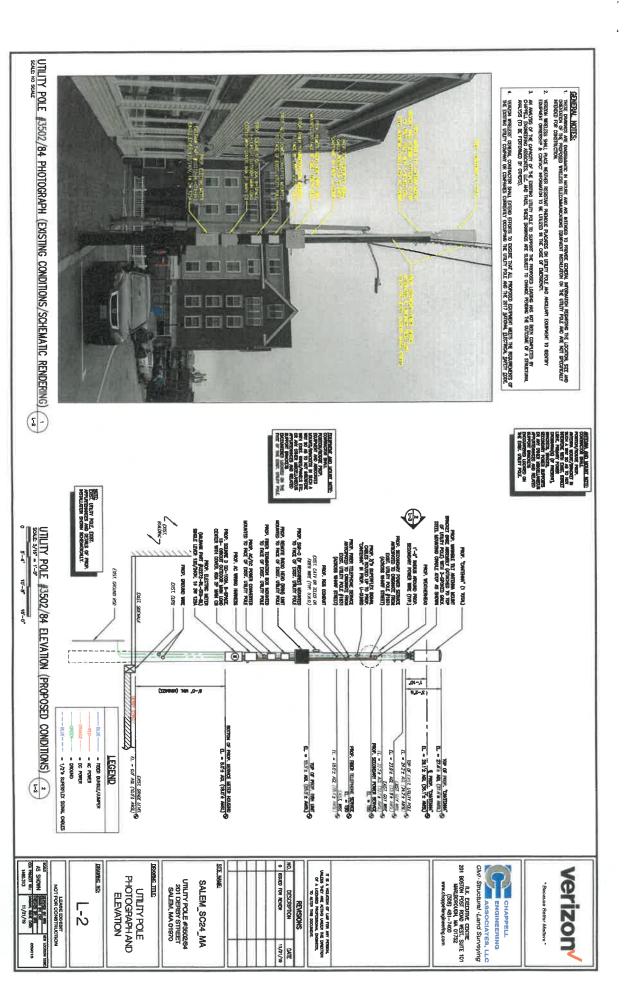
2 2 2 LOCATION PLAVACEUAL HUNGE
UTILITY POLE PHOTOGRAPH AND BLEVATION DESCRIPTION ANTENNA A ANCILLARY EQUIPMENT DETAILS AND ONE-LINE DIAGRAM SHEET INDEX 贾 DRAWING TITLE: UTILITY POLE #3502/84 201 DERBY STREET SALEM, MA 01970 LOCATION PLANV AERIAL IMAGE SALEM_SC24_MA $\overline{\Sigma}$

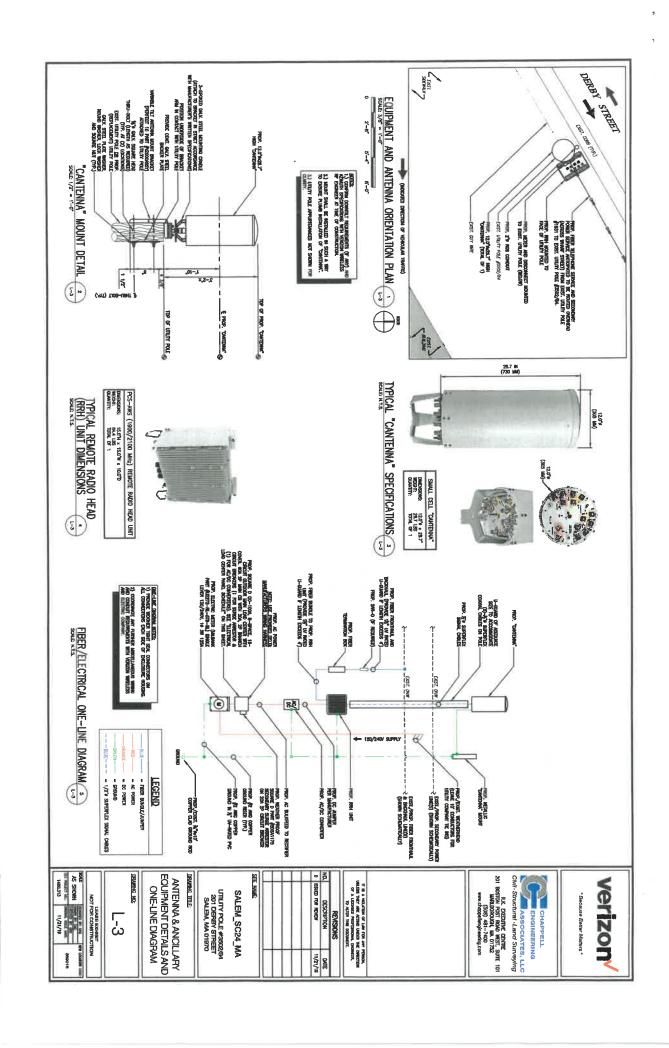
us wind

DIRAFT STRAFT

SOUR IT - NOT PLAN / AERIAL IMAGE

SIE CONTROL PUNIT: CEMTER OF EXTING UTLITY POLE \$3502/84 N #2.520755 (#2 -31'-14.73') W 70.888482 (70'-55'-18.54') APPROXIMATE GROUND ELEVATION - 10'± AMSL





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: 389 LAFAYETTE STREET /42.500525 70.889 610
Application Fee Received: Yes Check No. 6477 Date: 2/27/20
City Electrician Approval: Jan J Grandi
BUSINESS NAME Corporate name: WERIZON WIRELESS
d/b/a:
Address: 18 FLANDERS Rd. 300 FLOOK WESTBOOKH, MA. 01581 Tele.#
CONTACT: BRYAN SARUH ACCENT IN A MOSMITH DEVELOPMENT
Street: 318 WEST AVE Tele. # 480-734-4970
City: SAKATOGA SPRINGS State: NY Zip: 12840
Email Address: BSARCH I @ AIROSIN ITH DEVELOPMENT. COM
Pole Ownership
To be attached to utility-owned poleTo 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?
Dogo 4 of 2

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 City Hall Annex, 98 Washington Street	Engineering Department DATE City Hall Annex, 98 Washington Street
Salem Historical Commission DATE City Hall Annex, 98 Washington Street Salem Historical Commission DATE	Office of Information Technology 29 Highland Avenue Algorithm DATE

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

City Hall, 93 Washington Street

Verizon Wireless: SALEM_SC12_MA

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 #2512, located in the right of way adjacent to 389 Lafayette Street 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 SC12 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 #2512, located in the right of way near the property line of 389 Lafayette Street 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



CITY OF SALEM

Engineering Department

98 Washington Street, 2nd floor Salem, MA 01970 Phone: (978) 619-5673

David H. Knowlton, P.E. City Engineer/DPS Director

MEMORANDUM

To:

Victoria Caldwell, Assistance City Solicitor

From:

Deborah L. Duhamel, PE, Assistant City Engineer

Subject:

Verizon – Request for Grant of Location

Date:

March 30, 2020

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles at the following locations:

13 Washington Square/1 Brown Street 8 Loring Ave 389 Lafayette Street 28 Raymond Road 198 Loring Ave 201 Derby Street

Engineering requests the following conditions:

(1) Provide detailed construction schedule for all phases at each site.

(2) Provide traffic management plan for each site/phase, showing at a minimum, where equipment will be and how traffic and pedestrian travel will be maintained, if parking spots will be needed, and if a detail will be required.

(3) Coordinate with DPS (978-744-3302) prior to installing grounding rod to confirm City utilities

and property services are clear of rod location.

(4) Repair any damage caused by work to the satisfaction of the City Engineer.



KIMBERLEY DRISCOLL MAYOR

TOM DANIEL, AICP DIRECTOR

CITY OF SALEM, MASSACHUSETTS DEPARTMENT OF PLANNING AND

COMMUNITY DEVELOPMENT

98 Washington Street • Salem, Massachusetts 01970 Tele: 978-619-5685 • Fax: 978-740-0404

MEMO

To: Brennan Corriston, Staff Planner and Victoria Caldwell, Assistance City Solicitor

From: Patti Kelleher, Preservation Planner

Date: March 10, 2020

RE: Request for Grant of Location for Cell Antenna Attachment

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles on Washington Square, Loring Avenue, Lafayette Street, Raymond Road and Derby Street. As indicated on the submitted Utility Pole Photograph and Elevation drawings for each property, the "cantenna" (a 28.7" can with a 12 diameter) would extend 3' from the top of the telephone pole and would include five (5) additional attachments and a covered cable on the side of each affected telephone pole (with the lowest attachment located 8' above sidewalk). Several of these attachments are significant in size, including the Remote Radio Head Unit (RRHU), which is 15" tall x 15" wide x 10" deep. A visual survey of existing cell attachments in the city indicates that the Verizon proposal includes significantly more pieces of equipment than other attachments to City poles. I recommend that the City ask Verizon to reduce or consolidate the number of attachments and place them higher on the pole. If the number of attachments cannot be reduced or consolidated, I recommend that the attachments be placed closer to the top of the telephone pole and painted to match pole color in order to reduce the visual clutter at the pedestrian view.

As part of the review for cell attachments, a determination must be made that the location of the attachments will not impact the city's historic resources. Therefore, I have reviewed the submitted plans and offer the following comments:

389 Lafayette Street, 8 Loring Avenue, 28 Raymond Road and 198 Loring Avenue

None of these properties are designated in a local or National Register historic district and only 8 Loring Avenue has been inventoried (SAL.4390). Therefore, I find that the proposed attachments will not impact historic resources.

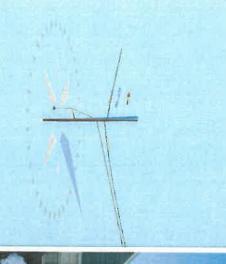
201 Derby Street

While not in a local or National Register historic district, this pole is located directly adjacent to the entrance to the Derby Street Local Historic District as well at the entrance to the Salem Maritime National Park. Moving it closer to the intersection of Derby, Hawthorne Boulevard and Congress Street would be preferable but utilities in this area are buried and the only poles that exist are metal light poles.

13 Washington Square/1 Brown Street

The proposed attachment in front of 13 Washington Square/I Brown Street is located in the Washington Square Local Historic District and the Salem Common National Register District. The building at 1 Brown Street (SAL.2459) was recently restored by the Peabody Essex Museum, which is also undertaking extensive landscape restoration on their property adjacent to this building. In addition, Brown Street is a narrow residential street and the proposed design of the installation indicates that the cantenna will be mounted onto a bracket that overhangs the street. The ancillary equipment and cable will be located on the side of the telephone pole and will add visual clutter to an historic streetscape.

0 Feet	Elevation:	0.000000 Deg Elevation:		itude:	0.000000 Deg Longitude:		Latitude:
		4.00	No Wind Pressure (psf):	No	Unset Fiber Stress Ht. Reduc:	Unset F	Aux Data 6
1.90	39.53 Vertical LF:	39.53	6,800 Wind Speed (mph):	6,800	Unset Allowable Stress (psi):	Unset A	Aux Data 5
1.30	0.50 Wire Tension LF:	0.50	8,000 Ice Thickness (in):	8,000	Unset G/L Fiber Stress (psi):	Unset G	Aux Data 4
1.75	Heavy Transverse Wind LF:	Heavy	31.79 Loading District:	31.79	Unset G/L Circumference (in):	Unset G	Aux Data 3
0.85	C Pole Strength Factor:	C	5.21 Construction Grade:	5.21	Unset Setting Depth (ft):	Unset S	Aux Data 2
Guy Wires Adequate		Rule 250B Status	NESC Rule:	SOUTHERN PINE NESC Rule:		Unset Species:	Aux Data 1
Angle	NESC Structure Type:	NESC	35 / 4 Code:	35 / 4	2514 Pole Length / Class:	2514 P	Pole Num:





Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum 9.2	0.0	270.7
Groundline 9.2	0.0	270.7
Vertical 0.3	13.5	270.0

Pole Moments (ft-lb)	Load Angle	Wind Angle
	(deg)	(deg)
Max Cap Util 5,119	272.9	270.7
Groundline 5,119	272.9	270.7
GL Allowable 57,618	18	

wate	Adequate	uate	Adequate	ty Summary:	System Capacity Summary:		
0.0	1.1	270.7	0.3	6.8	180.0	6.0	Sidewalk Strut
0.0	1.9	270.7	0.5	15.0			25M (Sidewalk)
0.0	2.2	270.7	0.6		180.0	6.0	Single Helix Anchor
180.0	0.7	270.7	0.0	15.0			12.5M (Span/Head)
180.0	0.4	270.7	0.0		0.0	138.0	Stub Pole
Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)	Nominal Capacity (%)	Height (ft)	Lead Angle (deg)	Lead Length (ft)	Description
ximum Load ad Applied	Individual Maximum Load With Overload Applied	Worst Wind on Pole	Load From Worst Wind Angle on Pole				Guy System Component Summary

Worst Wind Per Guy Wire

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 272.9°	y - Reporting A	ngle Mode: Lo	oad - Reportir	ng Angle: 272.	9°					
	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 (%)
Comms	107	33.2	1,924	37.6	3.3	229	88	_	230	3.4
GuyBraces	68	21.3	949	18.5	1.7	110	219	ω	113	1.7
Pole	146	45.5	2,245	43.9	3.9	268	1,325	16	284	4.2
Insulators	0	0.0	0	0.0	0.0	0	19	0	0	0.0
Pole Load	321	100.0	5,119	100.0	8.9	607	1,651	21	628	9.2
Pole Reserve Capacity			52,499		91.1	6,193			6,172	90.8

	Shear Load*	Applied Load	Bending Moment	Applied Moment	Pole Capacity	Bending Stress	Vertical Load	Vertical Stress	Total Stress	Pole Capacity
	(lbs)	(%)	(ft-lb)	(%)	(%)	(+/- psi)	(lbs)	(psi)	(psi)	(%) ,
Telco	55	17.0	964	18.8	1.7	115	78	-1	116	1.7
Catv	52	16.2	961	18.8	1.7	115	29	0	115	1.7
NGrid	68	21.3	949	18.5	1.7	110	219	ω	113	1.7
Pole	146	45.5	2,245	43.9	3.9	268	1,325	16	284	4.2
Totals:	321	100.0	5,119	100.0	8.9	607	1.651	21	628	9.2

	CATV	Telco	Detail Comm
	Ω	7	Detailed Load Components: Comm
	ATV Drop	Telco Drop	ponents:
	Catv	Telco	Owner
	18.67	17.83	Height (ft)
	5.73	5.78	Horiz. Offset (in)
	0.2370	0.2900	Cable Diameter (in)
	0.60	2.70	Sag at Max Temp (ft)
	0.026	0.029	Cable Weight (lbs/ft)
	42.0	138.0	Lead/Span Length (ft)
	270.0	0.0	Span Angle (deg)
	42.0	138.1	Wire Length (ft)
Totals:	40	40	Tension (lbs)
1,017	969	47	Tension Moment* (ft-lb)
2	0	2	Offset Moment* (ft-lb)
925	0	925	Wind Moment* (ft-lb)
1,944	970	974	Moment at GL* (ft-lb)

	J-Hook	J-Hook	Insulator
	J-Hook	J-Hook	
	Catv	Telco	Owner
	18.67	17.83	Height (ft)
	0.00	0.00	Horiz. Offset (in)
	0.0	0.0	Offset Angle (deg)
	0.0	0.0	Rotate Angle (deg)
	5.00	5.00	Unit Weight (Ibs)
	1.50	1.50	Unit Diameter (in)
Totals:	0.00	0.00	Unit Length (in)
0	0	0	Offset Moment* (ft-lb)
0	0	0	Wind Moment* (ft-lb)
0	0	0	Moment at GL* (ft-lb)

²Worst Wind Per Guy Wire

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	Span/Head	NGrid	15.02	15.02	138.00	0.343	75.00	0.0	0.0	0.208	135.25	0.00
25M	Sidewalk	NGrid	15.04	0.00	6.00	0.519	75.00	180.0	53.6	0.475	20.50	0.01

	25M	12.5M	Guy (Loa
	Sidewalk	Span/Head	Guy Wire and Brace (Loads and Reactions)
	2.30e+7	2.30e+7	Elastic Modulus (psi)
	25,000	12,500	Rated Tensile Strength (lbs)
	0.90	0.90	Guy Strength Factor
	22,500	11,250	Allowable Tension (lbs)
	700	700	Initial Tension (lbs)
	433	80	Loaded Tension* ² (lbs)
	393	73	Maximum Tension ² (lbs)
lotals:	115	0	Applied Tension ³ (lbs)
7.6	92	0	Vertical Load (lbs)
80	68	0	Shear Load In Guy Dir (Ibs)
٤	نا نا	0	Shear Load At Report Angle (lbs)
908	149	810	Moment at GL³ (ft-lb)

Single Helix Anchor	Stub Pole	Anchor/Rod Load Summary
NGrid	NGrid	ry Owner
18.00	30.00	Rod Length Lea AGL (in)
6.00	138.00	d Length (ft)
180.0	0.0	Lead Angle (deg)
20,000	20,000	Strength of Assembly (lbs)
1.00	1.00	Anchor/Rod Strength Factor
20,000	20,000	Allowable Load (lbs)
433	80	Max Load² (lbs)
115	0	Load at Pole MCU ³ (lbs)
2.2	0.4	Max Required Capacity ² (%)

333.33	5504.42	568,647	29.79	57.00	60.00	2.13e+6	10.12	6.69	2.35	9.61	32.31	13.53	0.71
Buckling Load Factor of Safety	Buckling Load Applied at Height (lbs)	Buckling Load Capacity at Height (lbs)	Pole Tip Height (ft)	ice Density (pcf)	Pole Density (pcf)	Modulus of Elasticity (psi)	Diameter at GL (in)	Diameter at Tip (in)	Minimum Buckling Diameter at GL (in)	Buckling Section Diameter (in)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Column Height* (ft)	Buckling Constant
												ng	Pole Buckli

Includes Load Factor(s)



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.

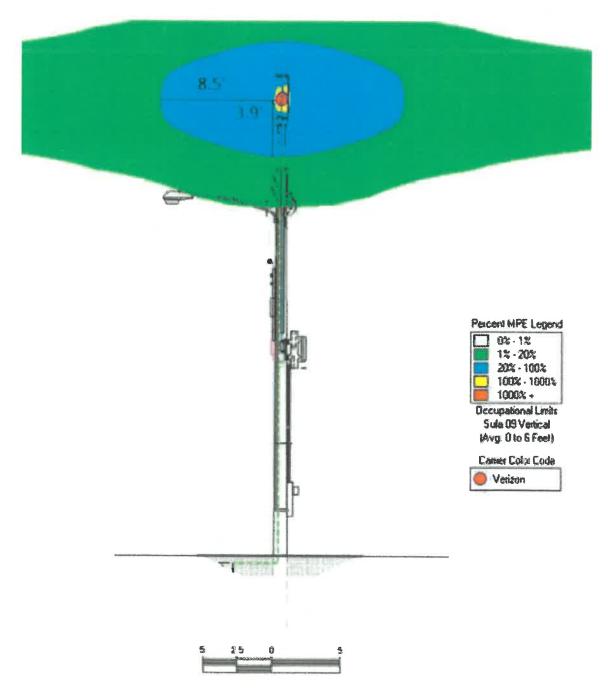
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

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	
	Greater Than 100	Contact VZW Before Accessing This Area
	Greater Than 1000	

Property Owner Responsibilities

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.
- 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 Malatenance is Required
24-Hour Network Operations Center:
7-800-264-6620

RF Safety & Awareness Training Contacts
Dech Communications

(michele@dtechcom.com.)

spenta@ebiconsulting.com

SiteSafe

(chagley@sitesafe.com)

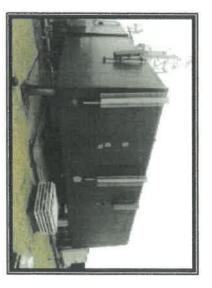
Waterford Consultants

anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions



AWARENESS



Federal Compliance Requirements

established safety guidelines relating to RF exposure from cel related to RF biological effects. The FCC explains that its engineers after extensive reviews of the scientific literature tion. The standards were developed by expert scientists and istration, and the Occupational Safety and Health Administrarepresents an overview of the most applicable information: standards incorporate prudent margins of safety. The following Environmental Protection Agency, the Food and Drug Admin with numerous other federal agencies, including the Maximum Permissible Exposure (MPE) lunits, in consultation sites. The FCC developed those standards, known as The Federal Communications Commission (FCC) has

Classifications for Exposure Limits

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

General Population

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

ACAUTIO

Those in this category do not have RF Safety & Awareness Training.

Ensuring Compliance With FCC Guidelines

susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. Areas or portions of any transmitter site may be

Wireless Licensees are required by law to implement the

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

Compliance Materials

Notification Signage

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



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



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



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



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

indicative Barriers

tic cones, fiberglass fences, and poles mounted in cinderblocks. expected to exceed the FCC's limits. Examples of leadinglive Baras a means of visually demarcating an area where RF levels are rier Materials; plastic chains, buckets, reflective paint or plaswireless accusees may also be required to place indicative barriers in addition to physical burriers such as locked doors or ladders.



Antenna Safety



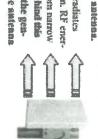
energy in one direction. RF energy has a narrow beam.

Yagi - Antenna that radiates

Walk behind or under this

Antenna Types







from this safeura. gy equally in all directions. Main-Whip - Antenna that radiates enertain as much distance as possible

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



When In An Environment With Autennas:

- Ų Maintain at least a 3-foot clearance from all preferred antennas. A 10-foot separation distance is
- Ų Never touch an antenna. Assume all are active.
- Read and obey ALL signs on an access point
- U Read and obey ALL signs in the environment with antennas
- Never walk past an indicative barrier without first confirming transmitter mactivity.

Ų

Never walk in front of or stand in front of an anterma whenever possible. Keep walking,

Ų

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

SALEM_SC12_MA **CLUSTER: SALEM MA** UTILITY POLE #2514 (N.G.) 389 LAFAYETTE STREET (MA ROUTE 114) SALEM, MA 01970

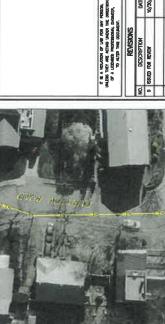


RAK. EXECUTIVE CENTRE 201 BOSTON POST ROAD WEST, SUITE 101 MARLDOROUSH, MA 01752 (309) 491–7440 www.chappellengineering.com

Civil Structural -Land Surveying

CHAPPELL ENGINEERING

Verizon



SHEET INDEX	DESCRIPTION	LOCATION PLANKABIAL MARGE	UTILITY POLE PHOTOGRAPH AND BLEVATION	ANTENNA & ANCALLARY EDUPPHENT DETAILS AND ONE-LIVE DIAGRAM
	DWG.	2	2	3



				DIAGRAM
SHEET INDEA	DESCRIPTION	LOCATION PLANAMENAL MARGE	UTILITY POLE PHOTOGRAPH AND BLEVATION	ANTENNA & ANCILLARY EQUIPMENT DETAILS AND ONE-LINE DIAGRAM
	DWG.	2	25	3





Ξ

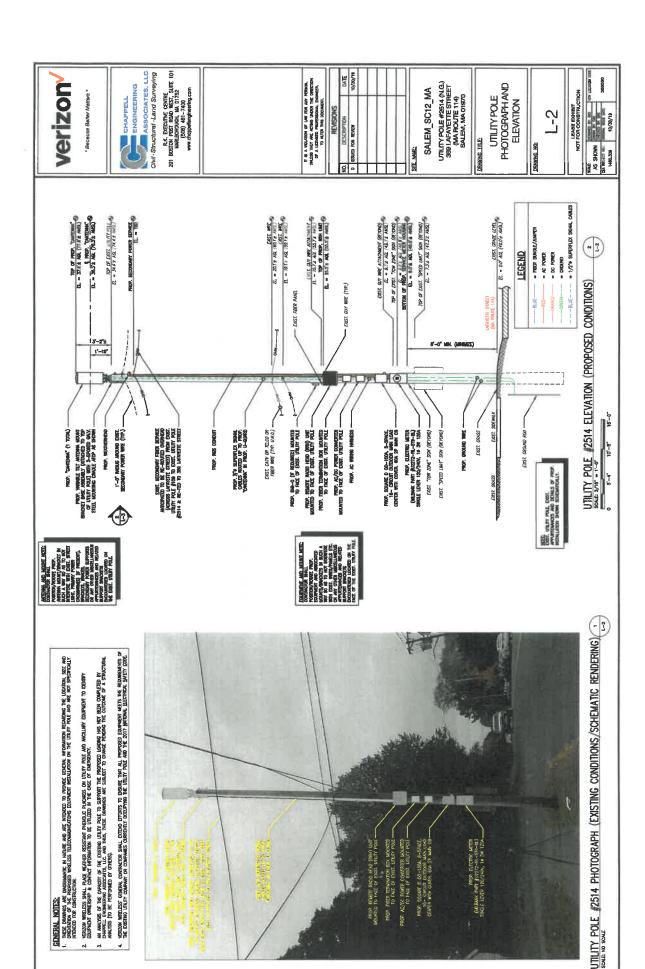
UTILITY POLE #2514 (N.G.) 389 LAFAYETTE STREET (MA ROUTE 114) SALEM, MA 01970

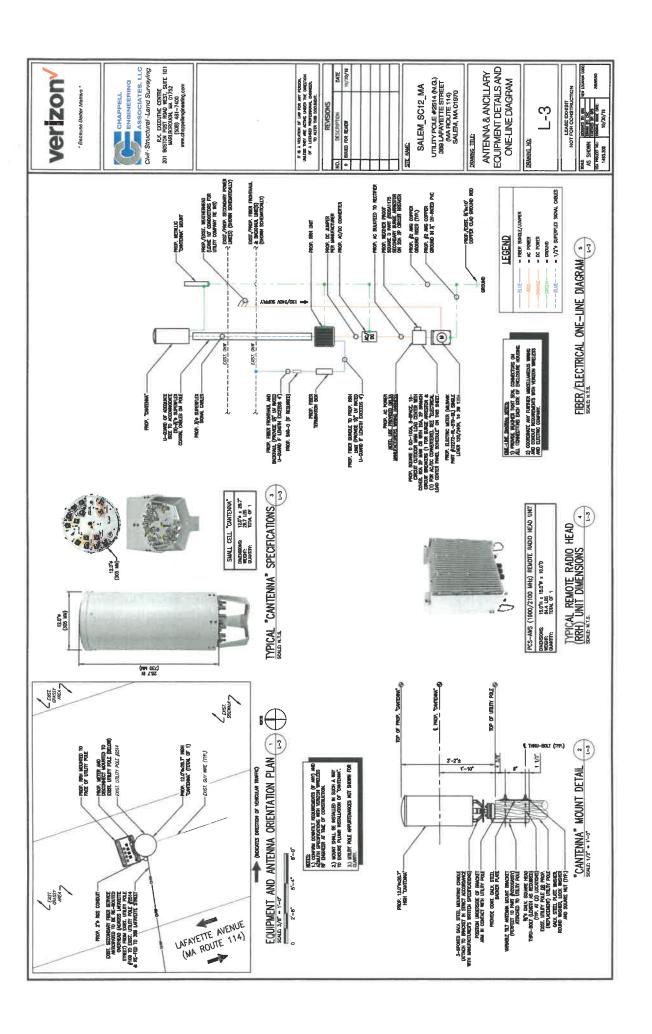
SALEM_SC12_MA

LOCATION PLAN/ AERIAL IMAGE

SILE CONTROL POINT.
CENTR OF EDSTING UTLITY POLE #2514
N 42-502-55 (42-30'-00.09')
W 70-559-70-41')
APPROXIMATE GROUND ELEWITION - 40'± AMSL.







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: 8 LORING RVE / 42.504914', 70.891310'
Application Fee Received: Yes Check No. 6477 Date: 2/27/20
City Electrician Approval:
BUSINESS NAME Corporate name: VEKIZON WIRELESS
d/b/a:
Address: 118 FLADER Rd. WESTBOROUGH, MA. 01861 Tele.#
CONTACT: BRYAN SARCHI / AGRAT W/ AIROSMITH DEVELOPMENT
Street: 3/8 WEST AVE Tele. # 480-734-4970
City: SARATOGA SPRINGS State: NY Zip: 12866
Email Address: BSARCHI @ AUCOSMITH DEVELORMENT COM
Pole Ownership
To be attached to utility-owned poleTo 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?

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 City Hall Annex, 98 Washington Street	Engineering Department DATE City Hall Annex, 98 Washington Street
Salem Historical Commission City Hall Annex, 98 Washington Street DATE City Hall Annex, 98 Washington Street Legal Department City Hall, 93 Washington Street	Mat Cub 3/27/2020 Office of Information Technology DATE 29 Highland Avenue

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

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 #3308-1, located in the right of way adjacent to 8 Loring Avenue 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_SC11_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 #3308-1, located in the right of way near the property line of 8 Loring Avenue 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



CITY OF SALEM

Engineering Department

98 Washington Street, 2nd floor Salem, MA 01970 Phone: (978) 619-5673

David H. Knowlton, P.E. City Engineer/DPS Director

MEMORANDUM

To:

Victoria Caldwell, Assistance City Solicitor

From:

Deborah L. Duhamel, PE, Assistant City Engineer

Subject:

Verizon - Request for Grant of Location

Date:

March 30, 2020

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles at the following locations:

13 Washington Square/1 Brown Street 8 Loring Ave 389 Lafayette Street 28 Raymond Road 198 Loring Ave 201 Derby Street

Engineering requests the following conditions:

(1) Provide detailed construction schedule for all phases at each site.

- (2) Provide traffic management plan for each site/phase, showing at a minimum, where equipment will be and how traffic and pedestrian travel will be maintained, if parking spots will be needed, and if a detail will be required.
- (3) Coordinate with DPS (978-744-3302) prior to installing grounding rod to confirm City utilities and property services are clear of rod location.
- (4) Repair any damage caused by work to the satisfaction of the City Engineer.



KIMBERLEY DRISCOLL MAYOR

Tom Daniel, AICP Director

CITY OF SALEM, MASSACHUSETTS

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

98 Washington Street ♦ Salem, Massachusetts 01970 Tele: 978-619-5685 ♦ Fax: 978-740-0404

MEMO

To: Brennan Corriston, Staff Planner and Victoria Caldwell, Assistance City Solicitor

From: Patti Kelleher, Preservation Planner

Date: March 10, 2020

RE: Request for Grant of Location for Cell Antenna Attachment

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles on Washington Square, Loring Avenue, Lafayette Street, Raymond Road and Derby Street. As indicated on the submitted Utility Pole Photograph and Elevation drawings for each property, the "cantenna" (a 28.7" can with a 12 diameter) would extend 3' from the top of the telephone pole and would include five (5) additional attachments and a covered cable on the side of each affected telephone pole (with the lowest attachment located 8' above sidewalk). Several of these attachments are significant in size, including the Remote Radio Head Unit (RRHU), which is 15" tall x 15" wide x 10" deep. A visual survey of existing cell attachments in the city indicates that the Verizon proposal includes significantly more pieces of equipment than other attachments to City poles. I recommend that the City ask Verizon to reduce or consolidate the number of attachments and place them higher on the pole. If the number of attachments cannot be reduced or consolidated, I recommend that the attachments be placed closer to the top of the telephone pole and painted to match pole color in order to reduce the visual clutter at the pedestrian view.

As part of the review for cell attachments, a determination must be made that the location of the attachments will not impact the city's historic resources. Therefore, I have reviewed the submitted plans and offer the following comments:

389 Lafayette Street, 8 Loring Avenue, 28 Raymond Road and 198 Loring Avenue

None of these properties are designated in a local or National Register historic district and only 8 Loring Avenue has been inventoried (SAL.4390). Therefore, I find that the proposed attachments will not impact historic resources.

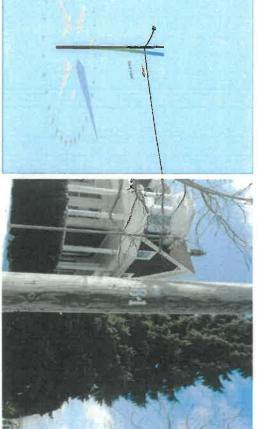
201 Derby Street

While not in a local or National Register historic district, this pole is located directly adjacent to the entrance to the Derby Street Local Historic District as well at the entrance to the Salem Maritime National Park. Moving it closer to the intersection of Derby, Hawthorne Boulevard and Congress Street would be preferable but utilities in this area are buried and the only poles that exist are metal light poles.

13 Washington Square/1 Brown Street

The proposed attachment in front of 13 Washington Square/1 Brown Street is located in the Washington Square Local Historic District and the Salem Common National Register District. The building at 1 Brown Street (SAL.2459) was recently restored by the Peabody Essex Museum, which is also undertaking extensive landscape restoration on their property adjacent to this building. In addition, Brown Street is a narrow residential street and the proposed design of the installation indicates that the cantenna will be mounted onto a bracket that overhangs the street. The ancillary equipment and cable will be located on the side of the telephone pole and will add visual clutter to an historic streetscape.

0 Feet	Elevation:	0.000000 Deg Elevation:		tude:	0.000000 Deg Longitude:		Latitude:
		4.00	No Wind Pressure (psf):	No	Unset Fiber Stress Ht. Reduc:	Unset	Aux Data 6
1.90	39.53 Vertical LF:	39.53	6,800 Wind Speed (mph):	6,800	Unset Allowable Stress (psi):	Unset	Aux Data 5
1.30	0.50 Wire Tension LF:	0.50	8,000 Ice Thickness (in):	8,000	Unset G/L Fiber Stress (psi):	Unset	Aux Data 4
1.75	Heavy Transverse Wind LF:	Heavy	38.00 Loading District:	38.00	Unset G/L Circumference (in):	Unset	Aux Data 3
0.85	C Pole Strength Factor:	C	6.20 Construction Grade:	6.20	Unset Setting Depth (ft):	Unset	Aux Data 2
Unguyed	Status	Rule 250B Status	NESC Rule:	SOUTHERN PINE NESC Rule:	Unset Species: SOU	Unset	Aux Data 1
Deadend	NESC Structure Type:	NESC	40 / 3 Code:	40/3	3308-1 Pole Length / Class:	3308-1	Pole Num:



100000	Pole Capacity Utilization (%)	ition (%)	Height (ft)	Wind Angle (deg)
-	Maximum	33.9	0.0	0.0
18.7	Groundline	33.9	0.0	0.0
cope	Vertical	2.6	16.7	0.0

		(deg)	(deg)
Max Cap Util	33,055	0.2	0.0
Groundline	33,055	0.2	0.0
GL Allowable	98,453		

66.2	4,499			4,520	66.4		65,398			Pole Reserve Capacity
33.8	2,301	21	2,367	2,280	33.6	100.0	33,055	100.0	1,327	Pole Load
0.0	0	0	2	_	0.0	0.0	7	0.0	0	insulators
-0.2	-14	_		-16	-0.2	-0.7	-226	1.8	24	Streetlights
	243	18	2,021	226	3.3	9.9	3,270	14.4	191	Pole
30.5	2,071	2		2,070	30.5	90.8	30,003	83.8	1,112	Powers
Pole Capacity (%)	Total Stress (psi)	Vertical Stress (psi)	Vertical Load (lbs)	Bending Stress (+/- psi)	Pole Capacity (%)	Applied Moment (%)	Bending Moment (ft-lb)	Applied Load (%)	Shear Load* (lbs)	
						g Angle: 0.2°	ad - Reportin	ngle Mode: La	ry - Reporting A	Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 0.2°

7

33.8	2,301	21	2,367	2,280	33.6	100.0	33,055	100.0	1,327	Totals:
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3.6	243	18	2,021	226	3.3	9.9	3,270	14.4	191	Pole
30.5	2,072	2	203	2,070	30.5	90.8	30,010	83.8	1,112	NGrid
Pole Capacity (%)	Total Stress (psi)	Vertical Stress (psi)	Vertical Load (lbs)	Bending Stress (+/- psi)	Pole Capacity (%)	Applied Moment (%)	Bending Moment (ft-lb)	Applied Load (%)	Shear Load* (lbs)	Shear Applied Bending Applied Load* Load Moment Moment (lbs) (%) (ft-lb) (%)
						Angle: 0.2°	d - Reporting	via Mode: I os	- Reporting And	Summary by Owner

Detailed Load Components:

29,966	0	0	29,965	Totals:											
1	0	0	29,965	855	200.0	0.0	200.0	0.248	2.68	0.8060	6.33	26.96	NGrid	TRIPLEX 2 AWG	Secondary
Momen at GL* (ft-lb)	Wind Moment* (ft-lb)	Offset Moment* (ft-lb)	Tension Moment* (ft-lb)	Tension (lbs)	Wire Length (ft)	Span Angle (deg)	Lead/Span Length (ft)	Cable Weight (lbs/ft)	Sag at Max Temp (ft)	Cable Diameter (in)	Horiz. Offset (in)	Height (ft)	Owner		Power

	General	Streetlight
	Streetlight - 8 ft. Arm	
	Municipal	Owner
	27.23	Height (ft)
	4.06	Horiz. Offset (in)
	180.0	Offset Angle (deg)
	180.0	Rotate Angle (deg)
	75.00	Unit Weight (lbs)
	48.00	Unit Height (in)
	20.00	Unit Depth (in)
	3.00	Unit Diameter (in)
Totals:	96.00	Unit Length (in)
-871	-871	Offset Moment* (ft-lb)
646	646	Wind Moment* (ft-lb)
-225	-225	Moment at GL* (ft-lb)

	Spaol	Insulator
	Spool Insulator	
	NGrid	Owner
	26.96	Height (ft)
	0.00	Horiz. Offset (in)
	90.0	Offset Angle (deg)
	0.0	Rotate Angle (deg)
	1.00	Unit Weight (lbs)
	2.50	Unit Diameter (in)
Totals:	2.12	Unit Length (in)
0	0	Offset Moment* (ft-lb)
7	7	Wind Moment* (ft-lb)
7	7	Moment at GL* (ft-lb)

38.46	910.25	89,629	33.80	57.00	60.00	2.13e+6	12.10	7.32	4.88	11.32	32.93	16.70	2.00
Buckling Load Factor of Safety	Buckling Load Applied at Height (lbs)	Buckling Load Capacity at Height (lbs)	Pole Tip Height (ft)	Ice Density (pcf)	Pole Density (pcf)	Modulus of Elasticity (psi)	Diameter at GL (in)	Diameter at Tip (in)	Minimum Buckling Diameter at GL (in)	Buckling Section Diameter (in)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Column Height* (ft)	Buckling Constant
												ng	Pole Buckling

² Worst Wind Per Guy Wire



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.

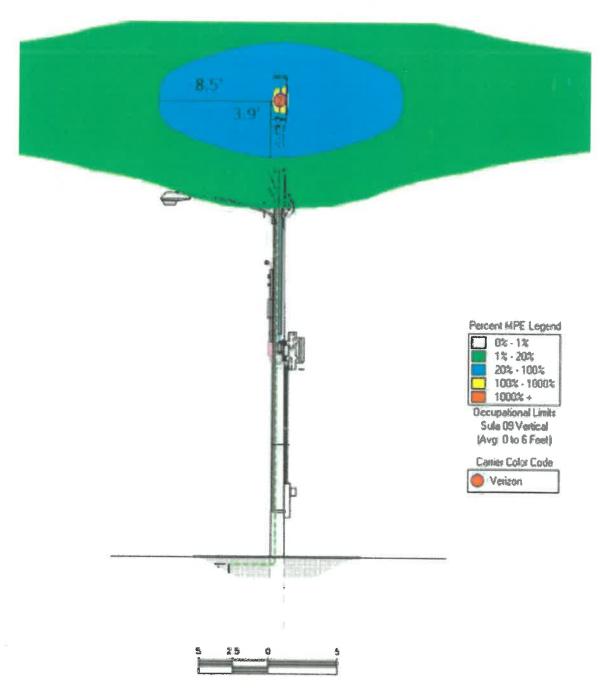
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

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	
	Greater Than 100	Contact VZW Before Accessing This Area
	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: VZWRFComplianco@vzw.com

E-mail Subject: "ATTNs RF Compliance"

In The Event That Emergency Methodonous is Required
24-Hour Network Operations Center:
1-800-264-6620

RF Safety & Awareness Training Contacts
Diech Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

SiteSafe

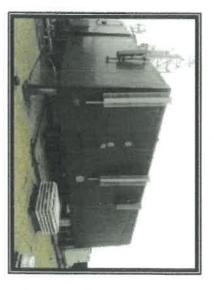
(chagley@sitesafe.com)

Waterford Consultants

anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions





Federal Compliance Requirements

standards incorporate prodent margins of safety. The following related to RF biological effects. The FCC explains that its engineers after extensive reviews of the scientific literature tion. The standards were developed by expert scientists and represents an overview of the most applicable information: istration, and the Occupational Safety and Health Administra-Environmental Protection Agency, the Food and Drug Admin with numerous other federal agencies, including the Maximum Permissible Exposure (MPE) limits, in consultation sites. The FCC developed those standards, known as established safety guidelines relating to RF exposure from cell The Federal Communications Commission (FCC) has

dassifications for Exposure Limits

Persons are "exposed as a

exercise control over their tial for exposure and can fully aware of the poten employment" and are consequence of their exposure

General Population

be made fully aware of the Any persons that "may not 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

sonnel exposures in excess of the FCC guidelines. susceptible to high power densities that could cause per-Areas or portions of any transmitter site may be

Wireless Licensees are required by law to implement the

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

Compliance Materials

Notification Signage

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



quests. contact information for any questions or re-Information - Provides relevant



(filme) 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 General Popula-

is pointing.



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



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

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



Antenna Safety









Indicative Barriers



antenna.

beam. Walk under or behind this

- Ų Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is
- U Never touch an antenna. Assume all are active
- U Read and obey ALL signs on an access point.
- U Read and obey ALL signs in the environment with antennas
- Ų Never walk post in indicative buttier without first confirming transmitter inactivity.
- Ų Never walk in front of or stand in front of an anterna whenever possible. Keep walking.
- IJ Contact all wireless licensees at least 24 hours in advance of scheduled maintenance



Antenna Types

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

energy in one direction. RF enereral direction that the autenna autenna. Stay out of the gento very wide. Walk behind this gy beam can range from narrow Paniel - Antenna that radiates





gy equally in all directions. Mainfrom this antenna. Whip - Antenna that radiates enertain as much distance as possible



SALEM_SC11_MA **CLUSTER: SALEM MA**

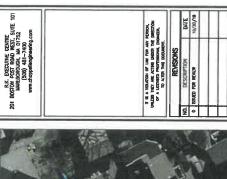
-

UTILITY POLE #3308-1 (N.G.) 8 LORING AVENUE (MA ROUTE 1A) SALEM, MA 01970

CHAPPELL
ENGINEERING
ASSOCIATES, LLC
CWI: Structural 'Land Surveying

Verizon

* Beceuse Better Matters *



UTILITY POLE #8308-1 (N.G.) 8 LORING AVENUE (MA ROUTE 1A) SALEM, MA 01970 SALEM_SC11_MA

DRAWING THE

LOCATION PLAN/ AERIAL IMAGE

1 DRAWING NO.

REV.

SHEET INDEX

DESCRIPTION

DWG. 233

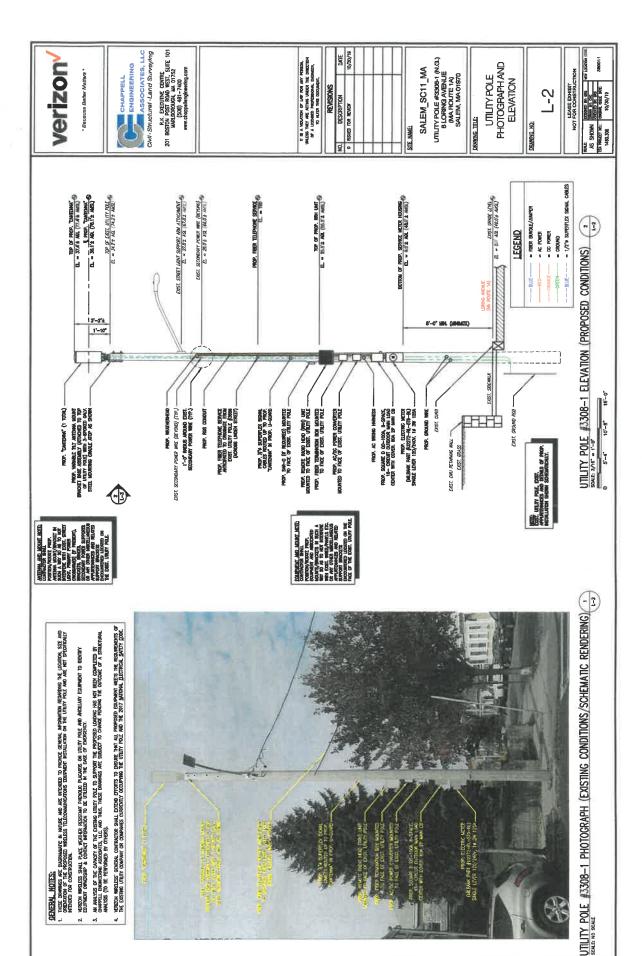
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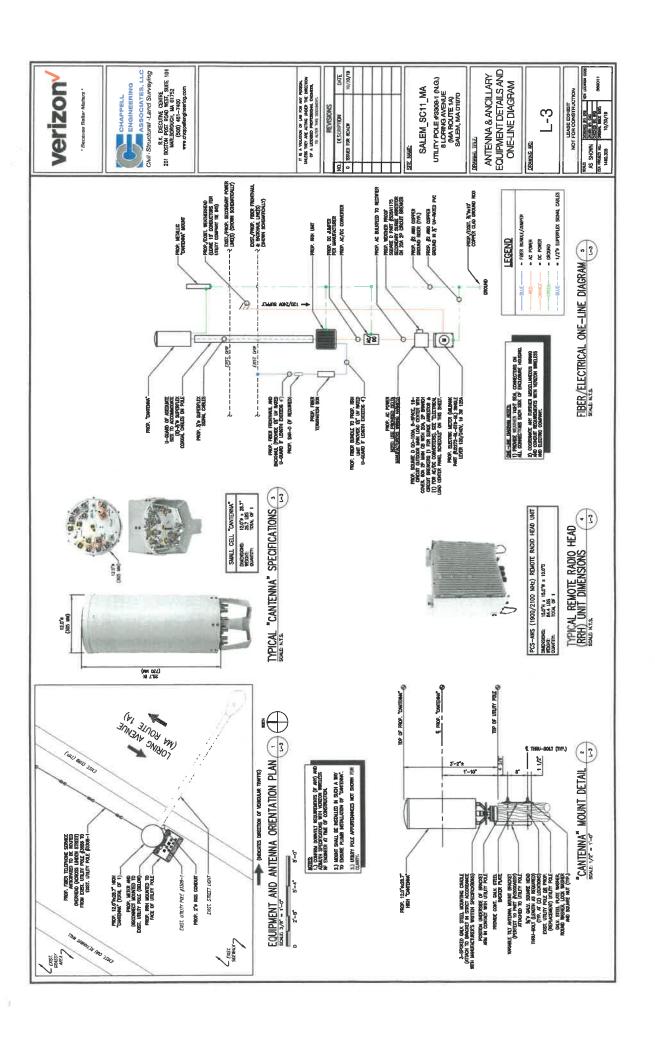
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STE CONTROL POINT:
CENTER OF ENSTREY FOLE (3308-1
N 42.504517 (42"-0"-17.33")
W 70.8913107 (70"-33"-28.23")
APPROXIMATE GROUND ELEWRIDN - 40"± AMSL





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. 6477 Date: 2/27/20
City Electrician Approval:
BUSINESS NAME Corporate name: VERIZON WIRELESS
d/b/a:
Address: 18 FLANDERS Rd. FLOOR WESTBOROVEN, MA. 01581 Tele.#
CONTACT: BRYAN SARCHI / AGKWT UJ KIROSMITH DRIELGENEW
Street: 317 WEST AVE Tele. # 480-734-9970
City: SARATOGA SPRINGS State: NY Zip: 12866
Email Address: B SARCHI @ AIROSM ITH DEVELOP MENT, COM
Pole Ownership
To be attached to utility-owned poleTo 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?YesNo

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
City Hall Annex, 98 Washington Street

DATE
City Hall Annex, 98 Washington Street

TO ALL CITY DEPARTMENTS: By signing this slip you are only acknowledging that the

Salem Historical Commission
City Hall Annex, 98 Washington Street

DATE

Office of Information Technology
29 Highland Avenue

Legal Department DATE
City Hall, 93 Washington Street

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

Verizon Wireless: SALEM SC15 MA

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 #4064-84, located in the right of way adjacent to 198 Loring Avenue 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_SC15_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 #4064-84, located in the right of way near the property line of 198 Loring Avenue 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



CITY OF SALEM

Engineering Department

98 Washington Street, 2nd floor Salem, MA 01970 Phone: (978) 619-5673

David H. Knowlton, P.E. City Engineer/DPS Director

MEMORANDUM

To:

Victoria Caldwell, Assistance City Solicitor

From:

Deborah L. Duhamel, PE, Assistant City Engineer

Subject:

Verizon - Request for Grant of Location

Date:

March 30, 2020

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles at the following locations:

13 Washington Square/1 Brown Street 8 Loring Ave 389 Lafayette Street 28 Raymond Road 198 Loring Ave 201 Derby Street

Engineering requests the following conditions:

(1) Provide detailed construction schedule for all phases at each site.

(2) Provide traffic management plan for each site/phase, showing at a minimum, where equipment will be and how traffic and pedestrian travel will be maintained, if parking spots will be needed, and if a detail will be required.

(3) Coordinate with DPS (978-744-3302) prior to installing grounding rod to confirm City utilities and property services are clear of rod location.

(4) Repair any damage caused by work to the satisfaction of the City Engineer.



MAYOR

TOM DANIEL, AICP DIRECTOR

CITY OF SALEM, MASSACHUSETTS

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

98 WASHINGTON STREET ♦ SALEM, MASSACHUSETTS 01970 TELE: 978-619-5685 ♦ FAX: 978-740-0404

MEMO

To: Brennan Corriston, Staff Planner and Victoria Caldwell, Assistance City Solicitor

From: Patti Kelleher, Preservation Planner

Date: March 10, 2020

RE: Request for Grant of Location for Cell Antenna Attachment

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles on Washington Square, Loring Avenue, Lafayette Street, Raymond Road and Derby Street. As indicated on the submitted Utility Pole Photograph and Elevation drawings for each property, the "cantenna" (a 28.7" can with a 12 diameter) would extend 3' from the top of the telephone pole and would include five (5) additional attachments and a covered cable on the side of each affected telephone pole (with the lowest attachment located 8' above sidewalk). Several of these attachments are significant in size, including the Remote Radio Head Unit (RRHU), which is 15" tall x 15" wide x 10" deep. A visual survey of existing cell attachments in the city indicates that the Verizon proposal includes significantly more pieces of equipment than other attachments to City poles. I recommend that the City ask Verizon to reduce or consolidate the number of attachments and place them higher on the pole. If the number of attachments cannot be reduced or consolidated, I recommend that the attachments be placed closer to the top of the telephone pole and painted to match pole color in order to reduce the visual clutter at the pedestrian view.

As part of the review for cell attachments, a determination must be made that the location of the attachments will not impact the city's historic resources. Therefore, I have reviewed the submitted plans and offer the following comments:

389 Lafayette Street, 8 Loring Avenue, 28 Raymond Road and 198 Loring Avenue

None of these properties are designated in a local or National Register historic district and only 8 Loring Avenue has been inventoried (SAL.4390). Therefore, I find that the proposed attachments will not impact historic resources.

201 Derby Street

While not in a local or National Register historic district, this pole is located directly adjacent to the entrance to the Derby Street Local Historic District as well at the entrance to the Salem Maritime National Park. Moving it closer to the intersection of Derby, Hawthorne Boulevard and Congress Street would be preferable but utilities in this area are buried and the only poles that exist are metal light poles.

13 Washington Square/1 Brown Street

The proposed attachment in front of 13 Washington Square/1 Brown Street is located in the Washington Square Local Historic District and the Salem Common National Register District. The building at 1 Brown Street (SAL.2459) was recently restored by the Peabody Essex Museum, which is also undertaking extensive landscape restoration on their property adjacent to this building. In addition, Brown Street is a narrow residential street and the proposed design of the installation indicates that the cantenna will be mounted onto a bracket that overhangs the street. The ancillary equipment and cable will be located on the side of the telephone pole and will add visual clutter to an historic streetscape.

0 Feet	Elevation:	0.000000 Deg Elevation:		tude:	0.000000 Deg Longitude:			Latitude:
		4.00	No Wind Pressure (psf):	No	Unset Fiber Stress Ht. Reduc:	t Fiber	Unse	Aux Data 6
1.90	39.53 Vertical LF:	39.53	6,800 Wind Speed (mph):	6,800	Unset Allowable Stress (psi):	t Allow	Unse	Aux Data 5
1.30	0.50 Wire Tension LF:	0.50	8,000 Ice Thickness (in):	8,000	Unset G/L Fiber Stress (psi):	t G/L F	Unse	Aux Data 4
1.75	Heavy Transverse Wind LF:	Heavy	40.91 Loading District:	40.91	Unset G/L Circumference (in):	t G/L C	Unse	Aux Data 3
0.85	C Pole Strength Factor:	C	6.22 Construction Grade:	6.22	Unset Setting Depth (ft):	t Settin	Unse	Aux Data 2
Guy Wires Adequate		Rule 250B Status	NESC Rule:	SOUTHERN PINE NESC Rule:		Unset Species:	Unse	Aux Data 1
Deadend	NESC Structure Type:	NESC	40 / 1 Code:	40/1	4064 Pole Length / Class:	4 Pole l	406	Pole Num:





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	Wind Angle
		(deg)	(deg)
Max Cap Util	8,019	301.8	278.6
Groundline	8,019	301.8	278.6
GL Allowable	122,826		

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

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 301.8°	y - Reporting A	ngle Mode: Lo	oad - Reportin	g Angle: 301.	œ					
	Shear Load*	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	_	74	1.1
Insulators	0	0.1	C h	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

8.1	549	39	5,177	510	6.5	100.0	8,019	100.0	374	Totals:
1.1	74		142	73	0.9	14.3	1,145	5.8	22	Municipal
3.0	206	19	2,487	187	2.4	36.7	2,941	52.3	196	Pole
4.0	269	19	2,548	250	3.2	49.1	3,933	41.8	156	NGrid
Pole Capacity (%)	Total Stress (psi)	Vertical Stress (psi)	Vertical Load (lbs)	Bending Stress (+/- psi)	Pole Capacity (%)	Applied Moment (%)	Bending Moment (ft-lb)	Applied Load (%)	Shear Load* (lbs)	
						Angle: 301.8	d - Reporting	gle Mode: Loa	- Reporting An	Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 301.8°

Detailed
Load C
compon
ents:

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

Insulator	9	General	Streetlight
	G	Streetlight - 8 ft Arm	
Ov		Municipal	Owner
Owner		26.22	Height (ft)
Height (ft)		İ	Horiz. Offset
Horiz. Offset		İ	Offset Angle (deg)
Offset Angle		270.0	Rotate Angle (deg)
Rotate Angle		75.00	Unit Weight (lbs)
Unit Weight			Unit Height (in)
Unit Diameter		20.00	Unit Depth (in)
t Unit		3.00	Unit Diameter (in)
	Totals:	96.00	Unit Length (in)
Offset Moment*	745		Offset Moment* (ft-lb)
Wind Moment*	5 571	5 571	Mod
Moment at GL*			Moment at GL* (ft-lb)

(T	Spool	Insulator
	Spool Insulator	
:	NGrid	Owner
	27.47	Height (ft)
	0.00	Horiz. Offset (in)
	90.0	Offset Angle (deg)
	0.0	Rotate Angle (deg)
	1.00	Unit Weight (lbs)
L	2.50	Unit Diameter (in)
Totals:	2.12	Unit Length (in)
4	느	Offset Moment* (ft-lb)
7	7	Wind Moment* (ft-lb)
o	<u>о</u>	Moment at GL* (ft-lb)

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

-6,618	-296	561	1,630	Totals:									
543	0	0	0	0	0	0	700	11,250	0.90	12,500	2.30e+7	Span/Head	12.5M
-7,161	-296	561	1,630	1,723	1,982	2,180	700	11,250	0.90	12,500	2.30e+7	Down	12.5M
Moment at GL³ (ft-lb)	Shear Load At Report Angle (lbs)	Shear Load In Guy Dir (lbs)	Vertical Load (lbs)	Applied Tension ³ (lbs)	Maximum Tension² (lbs)	Loaded Tension* ² (lbs)	Initial Tension (lbs)	Allowable Tension (lbs)	Guy Strength Factor	Rated Tensile Strength (lbs)	Elastic Modulus (psi)	Guy Wire and Brace (Loads and Reactions)	Guy Wire a (Loads an

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 Load² (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

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

Includes Load Factor(s)



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-fags.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.

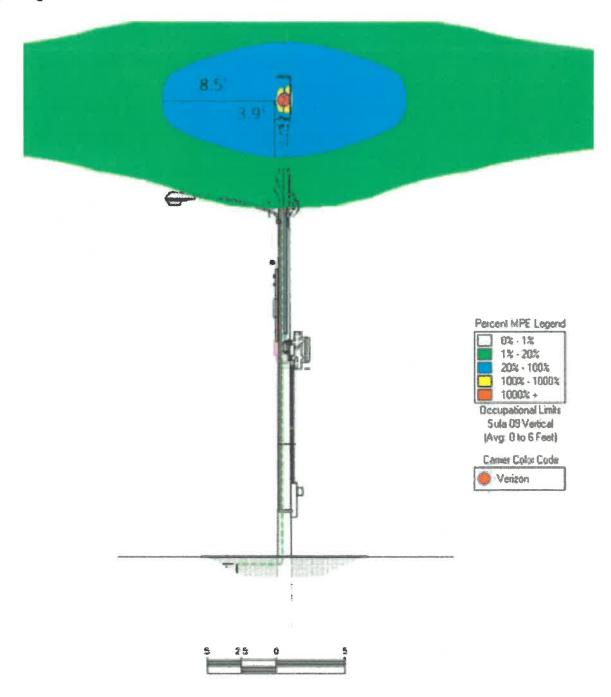
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis, Teves@VerizonWireles.com	508-479-3197

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	
	Greater Than 100	Contact VZW Before Accessing This Area
	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:

- Waintaining 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.
- 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 Disch Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

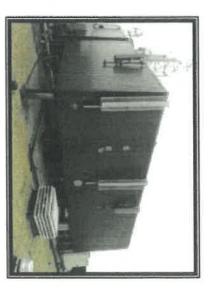
SiteSafe

(chagley@sitesafe.com)

Waterford Consultants

<u>Sbaier.</u> anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions



Federal Compliance Requirements

related to RF biological effects. The FCC explains that its engineers after extensive reviews of the scientific literature tion. The standards were developed by expert scientists and with numerous other federal agencies, including the Maximum Permissible Exposure (MPE) limits, in consultation sites. The FCC developed those standards, known as established safety guidelines relating to RF exposure from cell represents an overview of the most applicable information: standards incorporate prudent margins of safety. The following istration, and the Occupational Safety and Health Administra-Environmental Protection Agency, the Food and Drug Admin The Federal Communications Commission (FCC) has

Classifications for Exposure Limits

Occupational

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

General Population

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

Those in this category do not have RF Safery & Awareness Training.

Ensuring Compliance With FCC Guidelines

somel exposures in excess of the FCC guidelines. susceptible to high power densities that could cause per-Areas or portions of any transmitter site may be

Wireless Licensees are required by law to implement the

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

Compliance Materials

Notification Signage

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



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



(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 General Popula-



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



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

indicative Barriers

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



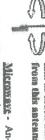
Antenna Safety

Antenna Types

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

as positing. eral direction that the antenna antenna. Stay out of the gento very wide. Walk behind this gy beam can range from narrow energy in one direction. RF ener-Panel - Antenna that radiates





from this anteuna. Whip - Antenna that radiates energy equally in all directions. Malatain as much distance as possible

antenus. beam. Walk under or behind this direction. RF energy has a narrow tenna that radiates energy in one



When In An Environment With Antennas:

- U Maintain at least a 3-foot clearance from all preferred. antennas. A 10-foot separation distance is
- IJ Never touch an antenna. Assume all are active
- U Read and obey ALL signs on an access point
- IJ Read and obey ALL signs in the environment with antennas
- Ų Never walk past an indicative barrier without first confirming transmitter inactivity.
- IJ Never walk in front of or stand in front of an antenna whenever possible. Keep walking.
- Ü Contact all wireless licensees at least 24 hours in advance of scheduled maintenance.

SALEM_SC15_MA **CLUSTER: SALEM MA**

1 0 TH

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



R.K. DECUME CENTRE
201 BOSTON POST ROND WEST, SUITE 101
IMMEDIORIORISH, MA 01792
(500) 481–7400
www.chappelingineering.com

UTILITY POLE #4084-84 (N.G.) 188 LOFING AVENUE (MA ROUTE 1A) SALEM, MA 01970 SALEM_SC15_MA

STRIC TELE:

LOCATION PLAN/ AERIAL IMAGE

Ξ

REV.

SHEET INDEX

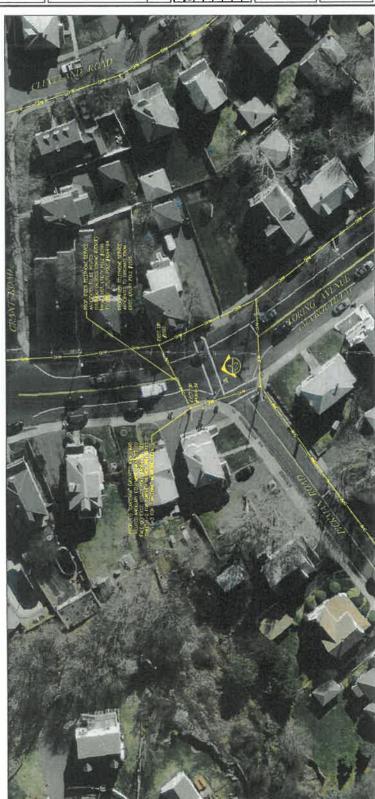
DESCRIPTION

2 2 3 3

LOCATION PLAN/AERIAL IMAGE

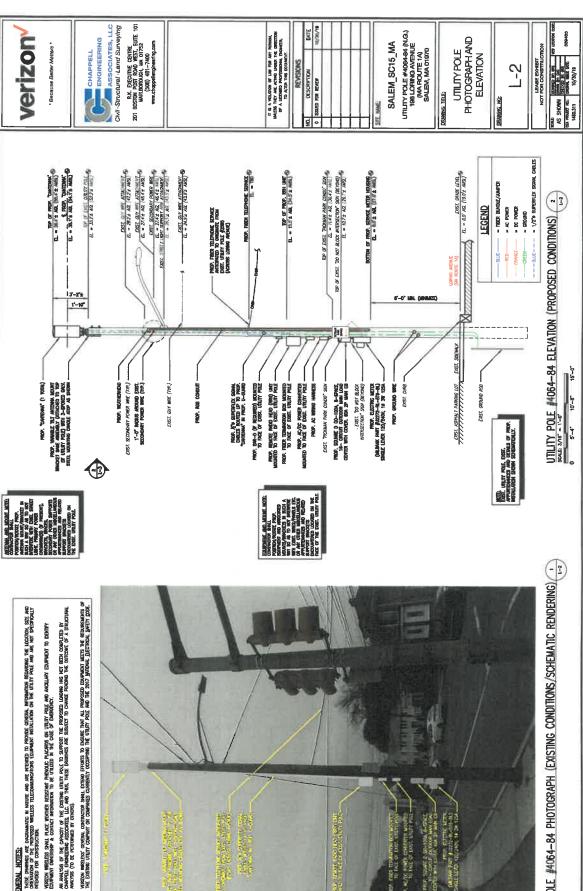
LOCATON PLANAENL, MAGE. UTILIY POLE PHOTOGRAPH, AND ELENATION ANTENNA & ANCILLARY EQUIPMENT DETAILS AND ONEL INE DIABRAI.

CTION	200460	
LEASE EXHIBIT FOR CONSTRU	200 P. ST. ST. ST. ST. ST. ST. ST. ST. ST. ST	10/30/10
NOT	AS SHOWS	146311



SIE CONTROL PONE.

CENTR OF EXISTING UPLITY POLE #0064-B4
N 42.495647 (42-28'-44.31")
N 70.893877 (70-53'-42.00")
APPROXIMATE GROUND ELEMINON - 18"± AMS1.



M To M

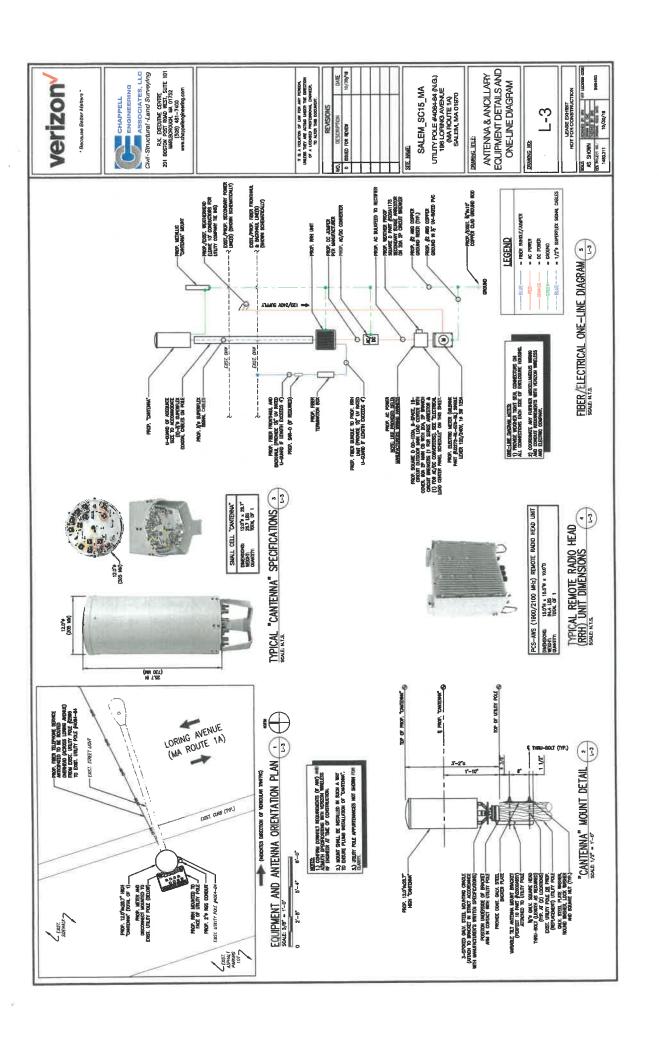
NOT MOVIE OF BUILD WHATER WANTED

PER THREE THOUSANDS OF THE STATE OF

FASTO FOROTT EACH FILES (BREE) DE SURTEN TO PACE OF BESTE DITLET FO

vorzon wrolesa saali, place weginer resistinat prevole placaros on utility pole and anciliar expanent to define Eutpaidit onnessap a, contact aporanton to be utilized in the case of disposacy.

UTILITY POLE #4064-84 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)



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 Kay nown Rd. /42.499903' 70.892019"
Application Fee Received: Yes Check No. 6477 Date: 2/27/20
City Electrician Approval: Jenick Leainte
BUSINESS NAME Corporate name: VERIZON WIREVESS
Address: 18 FLANDERS Rd 3ed FLOOK WESTERFORM, Mf. 01581 Tele.#
CONTACT: BRYAW SARCHI AGENT WAIRDSMITH DEVELOPMENT
Street: 318 West Ave Tele. # 4810-734-4970
City: GARATOGA SPRINGS State: NY Zip: 12866
Email Address: B SARCHIE AIROSMITH PEVELOPMENT. COM
Pole Ownership
To be attached to utility-owned poleTo 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?
Page 1 of 2

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 City Hall Annex, 98 Washington Street	Engineering Department City Hall Annex, 98 Washington Street	3 30 VICO
Salem Historical Commission DATE City Hall Annex, 98 Washington Street Legal Department City Hall, 93 Washington Street	Office of Information Technology 29 Highland Avenue	5/27/2020 DATE

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

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





CITY OF SALEM

Engineering Department

98 Washington Street, 2nd floor Salem, MA 01970 Phone: (978) 619-5673

David H. Knowlton, P.E. City Engineer/DPS Director

MEMORANDUM

To:

Victoria Caldwell, Assistance City Solicitor

From:

Deborah L. Duhamel, PE, Assistant City Engineer

Subject:

Verizon - Request for Grant of Location

Date:

March 30, 2020

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles at the following locations:

13 Washington Square/1 Brown Street

8 Loring Ave

389 Lafayette Street

28 Raymond Road

198 Loring Ave

201 Derby Street

Engineering requests the following conditions:

(1) Provide detailed construction schedule for all phases at each site.

(2) Provide traffic management plan for each site/phase, showing at a minimum, where equipment will be and how traffic and pedestrian travel will be maintained, if parking spots will be needed, and if a detail will be required.

(3) Coordinate with DPS (978-744-3302) prior to installing grounding rod to confirm City utilities and property services are clear of rod location.

(4) Repair any damage caused by work to the satisfaction of the City Engineer.



KIMBERLEY DRISCOLL MAYOR

Tom Daniel, AICP Director

CITY OF SALEM, MASSACHUSETTS

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

98 Washington Street • Salem, Massachusetts 01970 Tele: 978-619-5685 • Fax: 978-740-0404

MEMO

To: Brennan Corriston, Staff Planner and Victoria Caldwell, Assistance City Solicitor

From: Patti Kelleher, Preservation Planner

Date: March 10, 2020

RE: Request for Grant of Location for Cell Antenna Attachment

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles on Washington Square, Loring Avenue, Lafayette Street, Raymond Road and Derby Street. As indicated on the submitted Utility Pole Photograph and Elevation drawings for each property, the "cantenna" (a 28.7" can with a 12 diameter) would extend 3' from the top of the telephone pole and would include five (5) additional attachments and a covered cable on the side of each affected telephone pole (with the lowest attachment located 8' above sidewalk). Several of these attachments are significant in size, including the Remote Radio Head Unit (RRHU), which is 15" tall x 15" wide x 10" deep. A visual survey of existing cell attachments in the city indicates that the Verizon proposal includes significantly more pieces of equipment than other attachments to City poles. I recommend that the City ask Verizon to reduce or consolidate the number of attachments and place them higher on the pole. If the number of attachments cannot be reduced or consolidated, I recommend that the attachments be placed closer to the top of the telephone pole and painted to match pole color in order to reduce the visual clutter at the pedestrian view.

As part of the review for cell attachments, a determination must be made that the location of the attachments will not impact the city's historic resources. Therefore, I have reviewed the submitted plans and offer the following comments:

389 Lafayette Street, 8 Loring Avenue, 28 Raymond Road and 198 Loring Avenue

None of these properties are designated in a local or National Register historic district and only 8 Loring Avenue has been inventoried (SAL.4390). Therefore, I find that the proposed attachments will not impact historic resources.

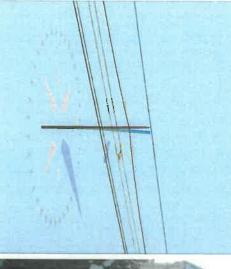
201 Derby Street

While not in a local or National Register historic district, this pole is located directly adjacent to the entrance to the Derby Street Local Historic District as well at the entrance to the Salem Maritime National Park. Moving it closer to the intersection of Derby, Hawthorne Boulevard and Congress Street would be preferable but utilities in this area are buried and the only poles that exist are metal light poles.

13 Washington Square/1 Brown Street

The proposed attachment in front of 13 Washington Square/1 Brown Street is located in the Washington Square Local Historic District and the Salem Common National Register District. The building at 1 Brown Street (SAL.2459) was recently restored by the Peabody Essex Museum, which is also undertaking extensive landscape restoration on their property adjacent to this building. In addition, Brown Street is a narrow residential street and the proposed design of the installation indicates that the cantenna will be mounted onto a bracket that overhangs the street. The ancillary equipment and cable will be located on the side of the telephone pole and will add visual clutter to an historic streetscape.

0 Feet	Elevation:	0.000000 Deg Elevation:		tude:	0.000000 Deg Longitude:	0.1		Latitude:
		4.00	No Wind Pressure (psf):	No	Unset Fiber Stress Ht. Reduc:	t Fiber St	Unse	Aux Data 6
1.90	39.53 Vertical LF:	39.53	6,800 Wind Speed (mph):	6,800	Unset Allowable Stress (psi):	t Allowab	Unse	Aux Data 5
1.00	0.50 Wire Tension LF:	0.50	8,000 Ice Thickness (in):	8,000	Unset G/L Fiber Stress (psi):	t G/L Fib	Unse	Aux Data 4
1.75	Heavy Transverse Wind LF:	Heavy	38.00 Loading District:	38.00	Unset G/L Circumference (in):	t G/L Circ	Unse	Aux Data 3
0.85	C Pole Strength Factor:	C	6.11 Construction Grade:	6.11	Unset Setting Depth (ft):	t Setting	Unse	Aux Data 2
Unguyed	Status	Rule 250B Status	NESC Rule:	SOUTHERN PINE NESC Rule:		Unset Species:	Unse	Aux Data 1
Unguyed Tangent	NESC Structure Type: Unguy	NESC	40 / 3 Code:	40/3	3412 Pole Length / Class:	Pole Le	341;	Pole Num:





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

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

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 90.1°	y - Keporting A	ingle Mode: Lo	bad - Reportin	ig 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	ယ္	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

23.8	1,616	34	3,860	1,583	23.3	100.0	22,973	100.0	1,019	Totals:
0.0	2	0	38	2	0.0	0.1	23	0.0	0	Communication
3,6	244	18	2,026	227	3.3	14.3	3,292	18.8	192	Pole
3.2	215	5	547	210	3.1	13.3	3,048	16.6	169	Telco
2.2	152	2	215	150	2.2	9.5	2,174	11.8	120	Catv
5.0	343	ω	380	340	5.0	21.5	4,931	21.4	218	Fiber
9.7	661	თ	654	655	9.7	41.4	9,506	31.4	320	NGrid
Pole Capacity (%)	Total Stress (psi)	Vertical Stress (psi)	Vertical Load (lbs)	Bending Stress (+/- psi)	Pole Capacity (%)	Applied Moment (%)	Bending Moment (ft-lb)	Applied Load (%)	Shear Load* (lbs)	
						Angle: 90.1°	d - Reporting	gle Mode: Loa	er - Reporting Ang	Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 90.1

9,430	9,155	274	0	Totals:											
3,359	3,170	137	53	1,065	200.1	180.0	200.0	0.399	2.98	1.0300	6.41	26.77	NGrid	TRIPLEX 1/0 10-5	Secondary
3,254	3,170	137	-53	1,065	200.1	0.0	200.0	0.399	2.98		6.41	26.77	NGrid	TRIPLEX 1/0 10-5	Secondary
1,490	1,408		83	1,281	100.0	180.0	100.0	0.115	0.20	0.3980	3.66	34.52	NGrid	AAAC 123.3 KCM AZUSA	Primary
1,326	1,408	· '0	-82	1,281	100.0	0.0	100.0	0.115	0.20	0.3980	3.66	34.52	NGrid	AAAC 123.3 KCM AZUSA	Primary
at GL* (ft-lb)	Moment* (ft-lb)	Moment* (ft-lb)	Moment* (ft-lb)	(lbs)	Length (ft)	Span Angle (deg)	Lead/Span Length (ft)	Cable Weight (lbs/ft)	Sag at Max Temp (ft)	Cable Diameter (in)	Horiz. Offset (in)	Height (ft)	Owner		Power
Monos	Wind	Official												Detailed Load Components:	Detailed Loa

Overlashed Bundle	CATV	Overlashed Bundle	CATV	Overlashed Bundle	Fiber	Overlashed Bundle	Fiber	Overlashed Bundle	Fiber	Overlashed Bundle	Fiber	Overlashed Bundle	Comm
lle 10M STRAND		lle 6.6M Strand .75 Catv	CATV .75	lle 6.6M Strand .75 Catv	Fiber	lle 6.6M Strand .5 Fiber	Fiber	lle 6.6M Strand .5 Fiber	Fiber	lle 6.6M Strand .75 Fiber	Fiber	lle 6.6M Strand .75 Fiber	
Telco	Catv	Catv	Catv	Catv	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Owner
16.03	16.90	16.94	16.90	16.94	20.57	20.60	20.57	20.60	22.38	22.42	22.38	22.42	Height (ft)
7.42	7.35	7.35	7.35	7.35	7.10	7.10	7.10	7.10	6.97	6.97	6.97	6.97	Horiz. Offset (in)
0.3060	0.8200	0.2500	0.8200	0.2500	0.5000	0.2500	0.5000	0.2500	0.7500	0.2500	0.7500	0.2500	Cable Diameter (in)
0.81		0.15		0.15		0.13		0.13		0.14		0.14	Sag at Max Temp (ft)
0.165	0.038	0.121	0.038	0.121	0.023	0.121	0.023	0.121	0.035	0.121	0.035	0.121	Cable Weight (lbs/ft)
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	Lead/Span Length (ft)
0.0	180.0	180.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	180.0	180.0	Span Angle (deg)
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	Wire Length (ft)
2,500		1,663		1,663		1,663		1,663		1,663		1,663	Tension (lbs)
-74	!	52		-52		-63		63		-69		69	Tension Moment* (ft-lb)
53	30	35	30	3 35	23	29	23	29	27	32	2/	32	Offset Moment* (ft-lb)
910	262	756	202	756	022	826	225	826	321	975	321	975	Wind Moment* (ft-lb)
688	262	844	767	260	240	791	248	918	348	939	348	1,076	Moment at GL* (ft-lb)

Pole ID:P3412_Raymond St.pplx

2.00	Buckling Constant	Pole Buckling		Bolt	Bolt	Bott	Bolt	Spool	Pin	Insulator
18.61	Buckling Column Height* (ft)	g		1	=	1	1	ဖြ	<u>p</u>	
33.25	Buckling Section Height (% Buckling Col. Hgt.)			Three Bolt	Three Bolt	Three Bolt	Three Bolt	Spool Insulator	Pin 7.5	
11.22	Buckling Section Diameter (in)			Co	Co	Co	Col	NGrid	NGrid	
5.87	Minimum Buckling Diameter at GL (in)			Communication	Communication	Communication	Communication	rid	rid	Owner
7.32	Diameter at Tip (in)			16.03	16.94	20.60	22.42	26.77	33.89	Height (ft)
2 12.10	t Diameter at GL (in)			0.00	0.00	0.00	0.00	0.00	0.00	Horiz. Offset (in)
10 2.13e+6	at Modulus of Elasticity (psi)			90.0	90.0	90.0	90.0	90.0	180.0	Offset Angle (deg)
e+6				0.0	0.0	0.0	0.0	0.0	0.0	Rotate Angle (deg)
60.00	¥			5.00	5.00	5.00	5.00	1.00	6.00	Unit Weight (lbs)
57.00	Ice Density (pcf)			3.00	3.00	3.00	3.00	2.50	3.50	Unit Diameter (in)
33.89	Pole Tip Height (ft)		Totals:			0.00				Unit Length (in)
69,784	Buckling Load Capacity at Height (lbs)			0	0	0		2	0	Offset Moment* (ft-lb)
701.84	Buckling Load Applied at Height (lbs)		24 51	6	6	6	6		0 44	Wind Moment* (ft-lb)
18.18	Buckling Load Factor of Safety		1 74	0	0 6	0	0 6	7 8	4 44	Moment at GL* (ft-lb)

18.18	701.84	69,784	33.89	57.00	60.00	2.13e+6	12.10	7.32	5.87	11.22	33.25	18.61	2.00
of Safety	Applied at Height (lbs)	Load Capacity at Height (lbs)	Height (ft)	(pcf)	Density (pcf)	Elasticity (psi)	(in)	(În)	Buckling Diameter at GL (in)	Section Diameter (in)	Section Height (% Buckling Col. Hgt.)	Column Height* (ft)	Constant
Cacking	_	Buckey		ICE DELIBITA	7010	Modulus of	Diameter at	Diameter at	LINCHTHIBIAL	Bucking	Bucking	_	Buckmig



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-fags.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.

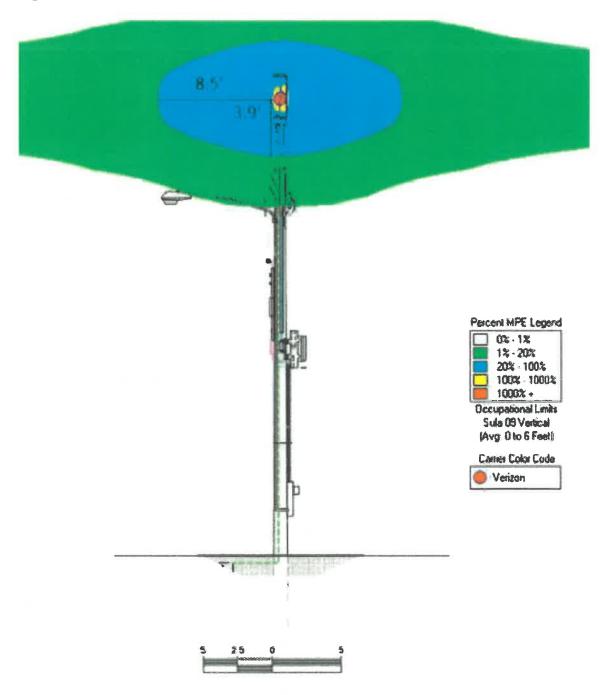
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

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	
	Greater Than 100	Contact VZW Before Accessing This Area
	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.
- 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: VZWRFComplianco@yzw.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
Otech Communications

(michelie@dtechcom.com.)
EBI Consulting

spenta@ebiconsulting.com

SiteSafe

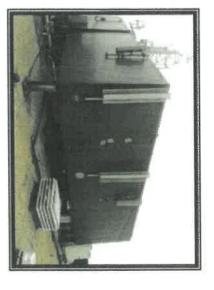
(chagley@sitesafe.com)

Waterford Consultants

anderson@waterfordconsultams.com

Radio Frequency (RF) Emissions





Federal Compliance Requirements

standards incorporate prudent margins of safety. The following related to RF biological effects. The FCC explains that its engineers after extensive reviews of the scientific literature tion. The standards were developed by expert scientists and Environmental Protection Agency, the Food and Drug Adminwith numerous other federal agencies, including the sites. The FCC developed those standards, known as established safety guidelines relating to RF exposure from cell represents an overview of the most applicable information: istration, and the Occupational Safety and Health Administra Maximum Permissible Exposure (MPE) limits, in consultation The Federal Communications Commission (FCC) has

Cassifications for Extrasting Limits

Persons are "exposed as a

exercise control over their "Jully aware of the potential for exposure and can employment" and are consequence of their exposure.

General Population

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

Those in this category do not have RF Safety & Awareness Training.

Eusuring Compliance With FCC Guidelines

somel exposures in excess of the FCC guidelines. susceptable to high power densities that could cause per-Areas or portions of any transmitter site may be

Wireless Licensees are required by law to implement the

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

Compliance Materials

Notification Signage

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



quests. contact information for any questions or re-Information - Provides relevant



MPE limit

(Blue) Notice - Informs viewer that beyond the sign.

RF exposure levels may exceed the General Populauon MPE limit but will remain below the Occupational

as pointing.



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



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

tic cones, fiberglass fences, and poles mounted in cinderblocks. expected to exceed the FCC's limit. Examples of lockedove Baras a streams of visually demurcating an area where RJF levels are rier Materials: plastic chains, buckets, reflective paint or plas wireless licensees may also be required to place indicative barriers In addition to physical barriers such as locked doors or ladders.



Antenna Safety



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

eral direction that the antenna to very wide. Walk behind this gy beam can range from narrow energy in one direction. RF enerantenna. Stay out of the gen-Panel - Antenna that radiates





from this untenna.

Whip. Antenna that radiates energy equally in all directions. Maintain as much distance as possible

direction. RF energy has a narrow beam. Walk under or behind this tenna that radiates energy in one



When In An Environment With Antennas:

antenua.

- Ü Maintain at least a 3-foot clearance from all antennas. A 10-foot separation distance is preferred.
- U Never touch an antenna. Assume all are active
- IJ Read and obey ALL signs on an access point
- U Read and obey ALL signs in the environment with antennas.
- Ų Never walk past an indicutive barrier without first confirming transmitter inactivity.
- IJ antenna whenever possible. Keep walking. Never walk in front of or stand in front of an
- Ų Contact all wireless licensees at least 24 hours in advance of scheduled maintenance.

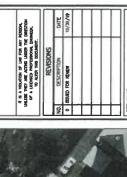
SALEM_SC13_MA **CLUSTER: SALEM MA**

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

ASSOCIATES, LLC
Civil-Structural - Land Surveying

CHAPPELL

Verizon



UTILITY POLE #3412 (N.G.)/ #122/10 (NETBT C.) 28 HAYMOND ROAD SALEM, MA 01970 SALEM_SC13_MA

LOCATION PLAN/ AERIAL IMAGE

1

REV.

SHEET INDEX

DESCRIPTION

LOCATION PLANKERUL IMAGE UTILIY POLE PHOTOBRAH AND ELEVATION ANTERNA & ANCILLARY ECUPINENT DETAILS AND ONE-LINE DIAGRAM

2 2 3 3 Q

LOCATION PLAN/AERIAL IMAGE

SIE CONTROL POWER

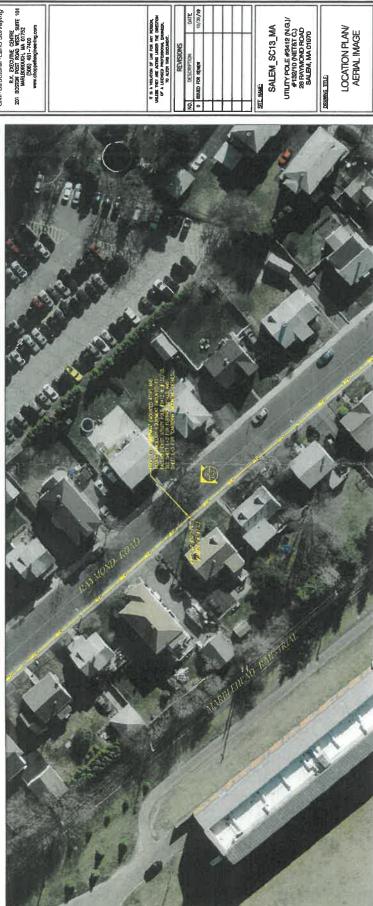
CRATER OF ESCHING UNLAT POWER

1 A22 SERSON (472–55 –56.65)

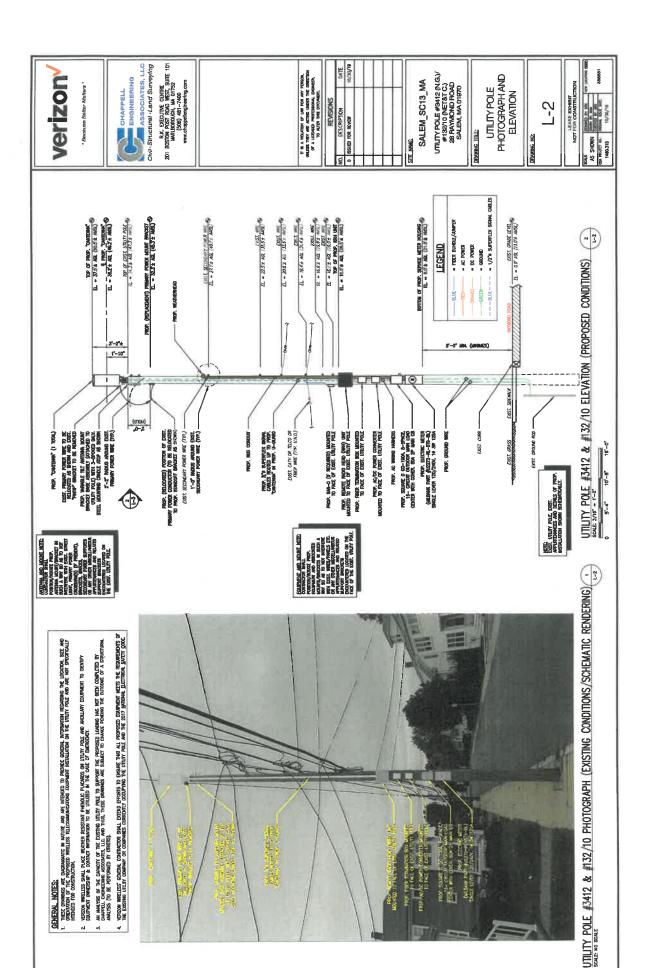
W 70.8500 (772–55 –56.65)

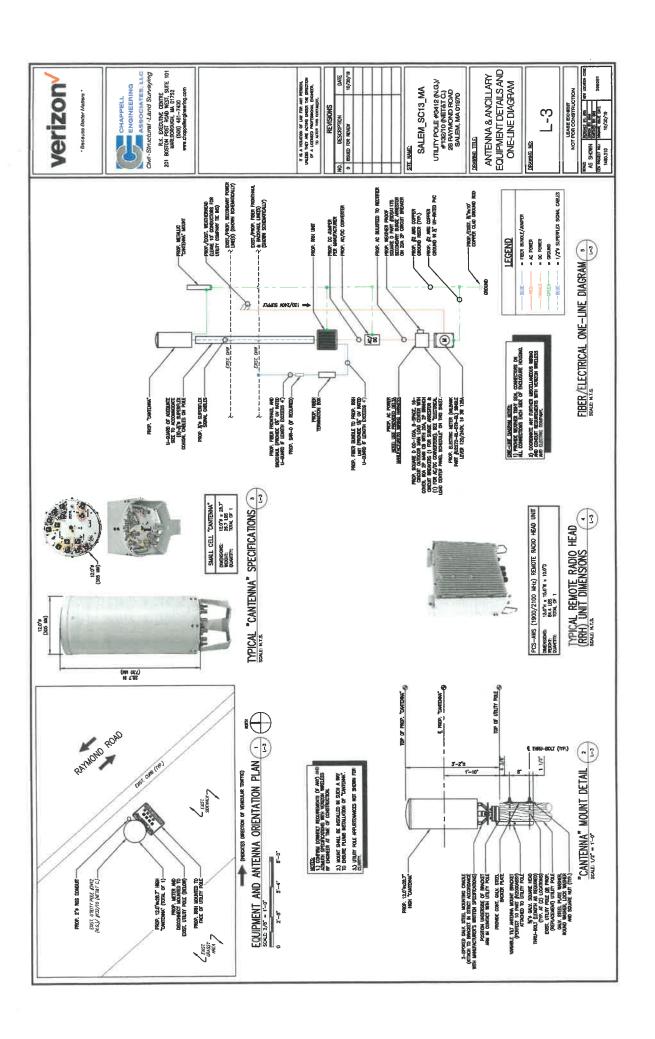
W 70.8500 (772–55 –56.65)

HON	936531 \$36531
LEASE EXHIBIT NOT FOR CONSTRUCTION	10/30/19
NOT	SOUR AS SHOWN BA WARET IN. 1460,310









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: 13 WASHINGTON SQ #KM/1 BROWN 5T. 42.533233 70,911235
Application Fee Received: Yes Check No. 6477 Date: 2/27/20 City Electrician Approval:
BUSINESS NAME Corporate name: VERIZON WIRELESS d/b/a: Address: 16 FLANDERS RA BRATEOR WEST BOROUGH, MR. 01581 Tele. #
CONTACT: BRYAN GARCHI AGENT W AIRCSMM DEVELOPMENT Street: 3/8 West Ave Tele. # 490-734-4970 City: SARATOGA SPRINGS State: NY Zip: 13666
Email Address: BSARCH (C AIRS IN ITH PEVELOPMENT . COM
To be attached to utility-owned poleTo 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? YesNo Page 1 of 2

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 City Hall Annex, 98 Washington Street	Engineering Department City Hall Annex, 98 Washington Street	3/26/2610 DATE
,	Salem Historical Commission City Hall Annex, 98 Washington Street	Office of Information Technology 29 Highland Avenue	3/27/2020 DATE
	My Denartment DATE		

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

City Hall, 93 Washington Street

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 #4916, located in the right of way adjacent to 1 Brown Street 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_SC26_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 #4916, located in the right of way near the property line of 1 Brown Street 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



CITY OF SALEM

Engineering Department

98 Washington Street, 2nd floor Salem, MA 01970 Phone: (978) 619-5673

David H. Knowlton, P.E. City Engineer/DPS Director

MEMORANDUM

To:

Victoria Caldwell, Assistance City Solicitor

From:

Deborah L. Duhamel, PE, Assistant City Engineer

Subject:

Verizon - Request for Grant of Location

Date:

March 30, 2020

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles at the following locations:

13 Washington Square/1 Brown Street 8 Loring Ave 389 Lafayette Street 28 Raymond Road 198 Loring Ave 201 Derby Street

Engineering requests the following conditions:

(1) Provide detailed construction schedule for all phases at each site.

(2) Provide traffic management plan for each site/phase, showing at a minimum, where equipment will be and how traffic and pedestrian travel will be maintained, if parking spots will be needed, and if a detail will be required.

(3) Coordinate with DPS (978-744-3302) prior to installing grounding rod to confirm City utilities

and property services are clear of rod location.

(4) Repair any damage caused by work to the satisfaction of the City Engineer.



KIMBERLEY DRISCOLL MAYOR

Tom Daniel, AICP Director

CITY OF SALEM, MASSACHUSETTS DEPARTMENT OF PLANNING AND

COMMUNITY DEVELOPMENT

98 Washington Street • Salem, Massachusetts 01970 Tele: 978-619-5685 • Fax: 978-740-0404

MEMO

To: Brennan Corriston, Staff Planner and Victoria Caldwell, Assistance City Solicitor

From: Patti Kelleher, Preservation Planner

Date: March 10, 2020

RE: Request for Grant of Location for Cell Antenna Attachment

I have reviewed the request from Verizon Wireless for the installation of "cantenna" cell attachments and ancillary equipment to existing telephone poles on Washington Square, Loring Avenue, Lafayette Street, Raymond Road and Derby Street. As indicated on the submitted Utility Pole Photograph and Elevation drawings for each property, the "cantenna" (a 28.7" can with a 12 diameter) would extend 3' from the top of the telephone pole and would include five (5) additional attachments and a covered cable on the side of each affected telephone pole (with the lowest attachment located 8' above sidewalk). Several of these attachments are significant in size, including the Remote Radio Head Unit (RRHU), which is 15" tall x 15" wide x 10" deep. A visual survey of existing cell attachments in the city indicates that the Verizon proposal includes significantly more pieces of equipment than other attachments to City poles. I recommend that the City ask Verizon to reduce or consolidate the number of attachments and place them higher on the pole. If the number of attachments cannot be reduced or consolidated, I recommend that the attachments be placed closer to the top of the telephone pole and painted to match pole color in order to reduce the visual clutter at the pedestrian view.

As part of the review for cell attachments, a determination must be made that the location of the attachments will not impact the city's historic resources. Therefore, I have reviewed the submitted plans and offer the following comments:

389 Lafayette Street, 8 Loring Avenue, 28 Raymond Road and 198 Loring Avenue

None of these properties are designated in a local or National Register historic district and only 8 Loring Avenue has been inventoried (SAL.4390). Therefore, I find that the proposed attachments will not impact historic resources.

201 Derby Street

While not in a local or National Register historic district, this pole is located directly adjacent to the entrance to the Derby Street Local Historic District as well at the entrance to the Salem Maritime National Park. Moving it closer to the intersection of Derby, Hawthorne Boulevard and Congress Street would be preferable but utilities in this area are buried and the only poles that exist are metal light poles.

13 Washington Square/1 Brown Street

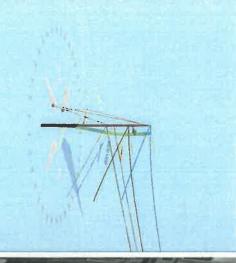
The proposed attachment in front of 13 Washington Square/1 Brown Street is located in the Washington Square Local Historic District and the Salem Common National Register District. The building at 1 Brown Street (SAL.2459) was recently restored by the Peabody Essex Museum, which is also undertaking extensive landscape restoration on their property adjacent to this building. In addition, Brown Street is a narrow residential street and the proposed design of the installation indicates that the cantenna will be mounted onto a bracket that overhangs the street. The ancillary equipment and cable will be located on the side of the telephone pole and will add visual clutter to an historic streetscape.

Based on the above findings, I find that the proposed attachment will impact the city's historic resources. Therefore, I recommend that an alternative pole be selected to minimize impacts on the adjacent historic buildings and to be less visually conspicuous on this historic streetscape. If an alternative location cannot be used, then the attachments to the pole should be placed as high as possible and painted to match color of wood pole. The Historical Commission often requires property owners to paint vents and pipes in a matte finish to match color of building.



Google Streetview of 1 Brown Street in 2018 Before Current Restoration Work

MO	Elevation:	0		tude:	0 Longitude:			Latitude:
		4.00	No Wind Pressure (psf):	No	Unset Fiber Stress Ht. Reduc:	Fiber Stre	Unset	Aux Data 6
1.90	39.53 Vertical LF:	39.53	6,800 Wind Speed (mph):	6,800	Unset Allowable Stress (psi):	Allowable	Unset	Aux Data 5
1.30	0.50 Wire Tension LF:	0.50	8,000 Ice Thickness (in):	8,000	Unset G/L Fiber Stress (psi):	: G/L Fiber	Unset	Aux Data 4
1.75	Heavy Transverse Wind LF:	Heavy	38.00 Loading District:	38.00	Unset G/L Circumference (in):	: G/L Circu	Unset	Aux Data 3
0.85	C Pole Strength Factor:	C	6.5 Construction Grade:	6.5	epth (ft):	Unset Setting Depth (ft):	Unset	Aux Data 2
Guy Wires Adequate		Rule 250B Status	NESC Rule:	SOUTHERN PINE NESC Rule:	SOL	Unset Species:	Unset	Aux Data 1
Angle	NESC Structure Type:	NESC	40 / 3 Code:	40/3	gth / Class:	Pole Len	4916_BROWN ST Pole Length / Class	Pole Num:





Pole	Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	mum	66.8	0.0	83.4
Grou	Groundline	66.8	0.0	84.1
Vertical	cal	00 .51	26.92	45.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	63,389	82.3	83.4
Groundline	63,389	82.3	84.1
GL Allowable	98,453		

pacity	Near Capacity	apacity	Near Capacity	ity Summary:	System Capacity Summary:		
84.8	93.2	83.4	93,2	9.4	270.0	8.5	Sidewalk Strut
84.8	57.0	83.4	51.9	32.1			12.5M (Sidewalk)
84.8	32.1	83.4	29.2		270.0	8.0	Single Helix Anchor
10.0	19.0	83.4	15.4	32.3			12.5M (Down)
10.0	39.6	83.4	33.9	18.1			12.5M (Down)
10.0	32.8	83.4	27.6		180.0	10.0	Single Helix Anchor
Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)	Nominal Capacity (%)	Height (ft)	Lead Angle (deg)	Lead Length (ft)	Description
ximum Load ad Applied	Individual Maximum Load With Overload Applied	Load From Worst Wind Angle on Pole	Load From Worst V Angle on Pole				Guy System Component Summary

	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	985	16.7	24,527	38.7	24.9	1,924	450	4	1,928	28.4
Comms	4,452	75.7	76,812	121.2	78.0	6,026	672	6	6,031	88.7
GuyBraces	231	3.9	41,430	-65.4	42.1	-4,072	15,801	138	-3,934	-57.9
Pole	190	3.2	2,830	4.5	2.9	222	2,005	17	239	3.5
Streetlights	24	0.4	604	1.0	0.6	47	86	_	48	0.7
Insulators	2	0.0	45	0.1	0.1	4	51	0	4	0.1
Pole Load	5,884	100.0	63,389	100.0	64.4	4,151	19,064	166	4,317	63.5
Pole Reserve Capacity			35,064		35.6	2,649			2,483	36.5

Norid .	1 218	20.7	16 250	200	-474	-5 144		142	-2 003	-29 5
		1			1 1 1	-)			1	
Catv	2,222	37.8	40,619	64.1	41.3	3,186		2	3,189	
Telco	2,230	37.9	36,194	57.1	36.8	2,839		4	2,843	41.8
Pole	190	3.2	2,830	4.5	2.9	222	2,005	17	239	ယ္သ
Municipal	24	0.4	604	1.0	0.6	47		_	48	0.7
Totals:	5,884	100.0	63,389	100.0	64.4	4,151	19,064	166	4,317	63.5

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27,857	5,544	151		Totals:											
	264		14,327	500	60.0		60.0	0.399	0.79	1.0300	6.36	26.19	NGrid	TRIPLEX 1/0 10-5	Secondary
	2,656	117		500	174.2		174.0	0.399	3.66	1.0300	6.36	26.19	NGrid	TRIPLEX 1/0 10-5	Secondary
	237	. 2		128	60.0	115.0	60.0	0.115	0.04	0.3980	3.66	34.16	NGrid	AAAC 123.3 KCM AZUSA	Primary
	2,387	ψ					174.0	0.115	0.46	0.3980	3.66	34.16	NGrid	AAAC 123.3 KCM AZUSA	Primary
Moment at GL* (ft-lb)	Wind Moment* (ft-lb)	Offset Moment* (ft-lb)	Tension Moment* (ft-lb)	Tension (lbs)	Wire Length (ft)	Span Angle (deg)	Lead/Span Length (ft)	Cable Weight (lbs/ft)	Sag at Max Temp (ft)	Cable Diameter (in)	Horiz. Offset (in)	Height (ft)	Owner		Power

# at GL* (ft-lb)															
	661	25	36.00	3.00	20.00	0.00	45.00	0.0	0.0	4.02		27.59	Municipal	Flood Light - 3 ft. Arm	Flood Light
Moment	Wind Moment* (ft-lb)	Offset Moment* (ft-lb)	Length (in)	Unit Diameter (in)	Unit Depth D	eight In it	Unit t Weight He (lbs)	Rotate U Angle W (deg)		z. Offset et Angle (deg)	t Horiz. Offset (in)	Height (ft)	Owner		Streetlight
	4,557	26	82,658	Totals:											
56 50	,,,	ь 6			60.0	115.0	60.0	0.700		1.0000	7.08	18.46	Telco	Telco , T	Telco
148 33,796	1.	చ	33,652	1,663	60.0	115.0	60.0	0.121	0.27	0.2500	7.08	18.50	Telco	6.6M STRAND 1	Overlashed Bundle
49 565	549	16				0.0	174.0	0.700		1.0000	7.10	18.01	Telco	Telco 1	Telco
0	1,453	9	5,234	1,663	174.0	0.0	174.0	0.121	2.31	0.2500	7.10	18.06	Telco	6.6M STRAND 1	Overlashed Bundle
55 52	,,,	-2				115.0	60.0	0.038		0.8200	6.94	20.72	Catv	CATV .75	CATV
158 37,905	1,	ω	37,750	1,663	60.0	115.0	60.0	0.121	0.06	0.2500	6.94	20.76	Catv	nd .75 Catv	Overlashed Bundle
50 557	550	7			174.0	0.0	174.0	0.038		0.8200	6.94	20.74	Catv	CATV .75	CATV
89 7,620	1,589	00	6,022	1,663	174.0	0.0	174.0	0.121	1.01	0.2500	6.94	20.78	Catv	6.6M Strand .75 Catv (Overlashed Bundle
Moment at GL* (ft-lb)	Wind Moment* (ft-lb)	Offset Moment* (ft-lb)	Tension Moment* (ft-lb)	Tension (lbs)	Wire Length (ft)	Span Angle (deg)	Lead/Span Length (ft)	Cable Weight (lbs/ft)	Sag at Max Temp (ft)	Cable Diameter (in)	Horiz. Offset (in)	Height (ft)	Owner		Comm

Totals:									
	3.00	5.00	180.0	180.0	0.00	18.50	Telco	Three Bolt 1.0"	Bolt
	3.00	5.00	0.0	0.0	0.00	18.06	Telco	Three Bolt 1.0"	Bolt
0.10	3.00	5.00	180.0	180.0	0.00	20.76	Catv	Three Bolt 0.75"	Bolt
	3.00	5.00	0.0	0.0	0.00	20.78	Catv	Three Bolt 0.75"	Bolt
	2.50	1.00	0.0	90.0	0.00	26.19	NGrid	Spool Insulator	Spool
	3.50	6.00	0.0	180.0	0.00	33.54	NGrid	Pin 7.5	Pin
Unit Length (in)	Unit Diameter (in)	Unit Weight D	Rotate Angle (deg)	Offset Angle (deg)	Horiz. Offset (in)	Height (ft)	Owner		Insuiator

270.0	_	0.343	8.00	0.00	32.07	NGrid	Sidewalk	12.5M
180.0	100.00	0.343	10.00	0.00	32.32	NGrid	Down	12.5M
180.0	_	0.343	10.00	0.00	18.07	NGrid	Down	12.5M
Lead Angle Incline (deg) Angle (deg)	Percent I Solid (%)	Wire Diameter (in)	Lead/Span Length (ft)	End Height (ft)	Attach Height (ft)	Owner		Guy Wire and Brace

47,055	-2,386	4,466	10,425	Totals:									
-41,241	-2,067	2,085	5,448	5,833	5,834	6,417	700	11,250	0.90	12,500	2.30e+7	Sidewalk	12.5M
-1,660	-70	521	1,651	1,731	1,945	2,140	700	11,250	0.90	12,500	2.30e+7	Down	12.5M
-4,153	-249	1,860	3,327	3,811	4,053	4,458	700	11,250	0.90	12,500	2.30e+7	Down	12.5M
Moment at GL ³ (ft-lb)	Shear Load At Report Angle (lbs)	Shear Load In Guy Dir (Ibs)	Vertical Load (lbs)	Applied Tension ³ (lbs)	Maximum Tension² (lbs)	Loaded Tension* ² (lbs)	Initial Tension (lbs)	Allowable Tension (lbs)	Guy Strength Factor	Rated Tensile Strength (lbs)	Elastic Modulus (psi)	suy Wire and Brace Loads and Reactions)	Guy Wire (Loads a

² Worst Wind Per Guy Wire

3 Wind At 83.4°

Anchor/Rod Load Summary	Owner	Rod Length L AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load² (lbs)	Load at Pole MCU ³ (lbs)	Max Required Capacity ² (%)
Single Helix Anchor	NGrid	18.00	10.00	180.0	20,000	1.00	20,000	6,563	5,513	32.8
Single Helix Anchor	NGrid	18.00	8.00	270.0	20,000	1.00	20,000	6,417	5,833	32.1

11.76	2242.85	225,149	33.54	57.00	60.00	2.13e+6	12.10	7.32	6.52	10.76	34.76	26.94	0.71
Buckling Load Factor of Safety	Buckling Load Applied at Height (lbs)	Buckling Load Capacity at Height (lbs)	Pole Tip Height (ft)	Ice Density (pcf)	Pole Density (pcf)	Modulus of Elasticity (psi)	Diameter at GL (in)	Diameter at Tip (in)	Minimum Buckling Diameter at GL (in)	Buckling Section Diameter (in)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Column Height* (ft)	Buckling Constant
												ng	Pole Buckling

Includes Load Factor(s)



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-fags.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.

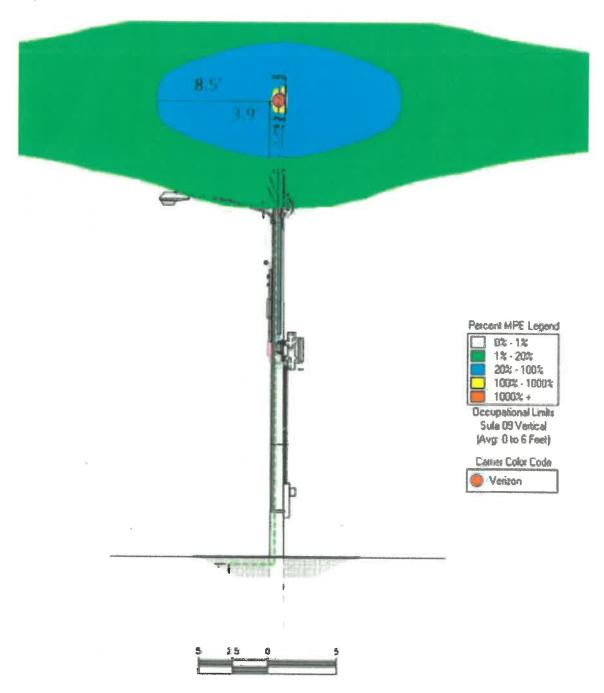
Contact Name	Contact Email	Contact Phone
Luis Teves	Luis.Teves@VerizonWireles.com	508-479-3197

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	*	
	Greater Than 100	Contact VZW Before Accessing This Area	
	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.
- 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: VIWRFCompliance@vzw.com
E-mail Subject: "ATTN: RF Compliance"

In The Event That Emergency Maintenance Is Required
24-Hour Network Operations Center:
7-800-264-6620

RF Safety & Awareness Training Contacts
Deach Communications

(michelle@dtechcom.com.)

EBI Consulting

spenta@ebiconsulting.com

SiteSafe

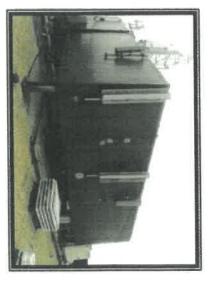
(chagley@sitesafe.com)

Waterford Consultants

anderson@waterfordconsultants.com

Radio Frequency (RF) Emissions





Federal Compliance Requirements

related to RF biological effects. The FCC explains that its engineers after extensive reviews of the scientific literature represents an overview of the most applicable information: standards incorporate prudent margins of safety. The following tion. The standards were developed by expert scientists and istration, and the Occupational Safety and Health Administra-Environmental Protection Agency, the Food and Drug Adminwith numerous other federal agencies, including the Maximum Permissible Exposure (MPE) limits, in consultation sites. The FCC developed those standards, known as established safety guidelines relating to RF exposure from cell The Federal Communications Commission (FCC) has

Cassifications for Kynosure Cinties

Persons are "exposed as a

exercise control over their tial for exposure and can fully aware of the poten consequence of their employment" and are exposure

Any persons that "mov 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

sonnel exposures in excess of the FCC guidelines. susceptible to high power densities that could cause per-Areas or portions of any transmitter site may be

Wireless Licensees are required by law to implement the

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

Compliance Materials

Notification Signage

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



quests. contact information for any questions or re-Information - Provides relevant



(Blue) Notice - Informs viewer that beyond the sign.

RF exposure levels may exceed the General Popula
tion MPE limit but will remain below the Occupational MPE limit. General Popula-



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



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

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



Antenna Safety

energy as one direction. RF energy has a narrow beam.

Yapi - Antenna that radiates

Antenna Types



is pointing. from this antenna. Whip - Antenna that radiates energy equalty in all directions. Malutain as much distance as possible

eral direction that the autenna

antenna. Stay out of the gen-

energy in one direction. RF ener

Panel - Antenna that radiates

antenna.

Walk behind or under this

to very wide. Walk behind this gy beam can range from narrow



an euna. beam. Walk under or behind this direction. RF energy has a narrow



When In An Environment With Antennas:

- IJ Maintain at least a 3-foot clearance from all preferred. antennas. A 10-foot separation distance is
- Ų Never touch an anterna. Assume all are active
- Ų Read and obey ALL signs on an access point
- U Read and obey ALL signs in the environment with antennas
- Ų Never walk past an indicative barrier without first confirming transmitter mactivity.
- Ų Never walk in front of or stand in front of an antenna whenever possible. Keep walking.
- Ų Contact all wireless licensees at least 24 hours in advance of scheduled maintenance.

PRESIDING POWER COMPANY

national**grid**

Verizon

CMI-Structural Land Surveying CHAPPELL ENGINEERING

R.K. EXCELTINE CENTRE 201 BOSTON POST RAND WEST, SLITE 101 MARRENOURS, MA. OT 1722 (SOB) 491–7400 www.choppellengineering.com

SALEM_SC26_MA

UTILITY POLE #4916
13 WASHINGTON SOLUARE
(MA ROUTE 1A),
POLE ON BROWN STREET
SALEM, MA O1970

LOCATION PLAN/ AERIAL IMAGE

LOCATION PLANAGEAUTH MAGE LITELY POLE PHOTOGRAPH AND SERVITOR ANTENNA A ANCELARY EQUIPMENT OFFALS AND ONE-LINE DIAGRAM

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SHEET INDEX

DESCRIPTION

NOL	SECORE	
NOT FOR CONSTRUCTION	Chamilton Int. des March Int. des ACCACO Int. des 11/22/19	
MOT	AS SHOWN day would in: 1480,228	

CLUSTER: SALEM MA

SALEM_SC26_MA

UTILITY POLE #4916 13 WASHINGTON SQUARE (MA ROUTE 1A), POLE ON BROWN STREET SALEM, MA 01970



STE CONTROL FORIE

CENTR OF EASING UTLANT POLE \$4916

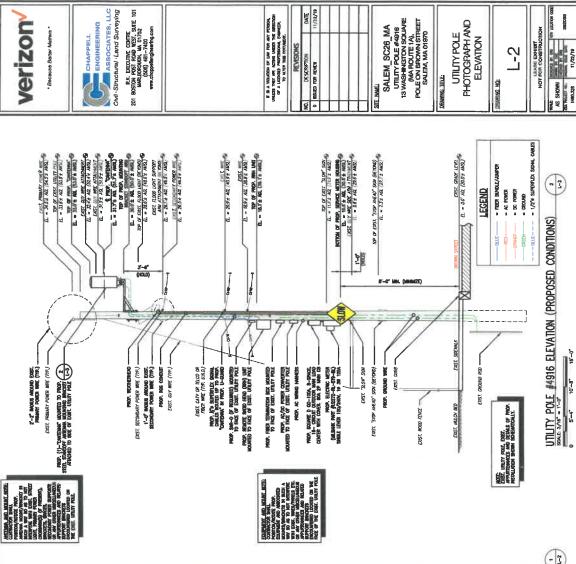
N 42.52.02.2 (47-51'-23.67)

N 70.591.235 (77-53'-28.45)

APPROXIMATE GROUND ELEVATION - 20'± AMSL.

LOCATION PLAN/AERIAL IMAGE

- O -



vorchw wreless combactry shall ected detains to englag that all proposed exupalent meets the recombliations of The existing utlay company or companes currently occupang the utlay pole and the 2017 battonal electrical syety (2005).

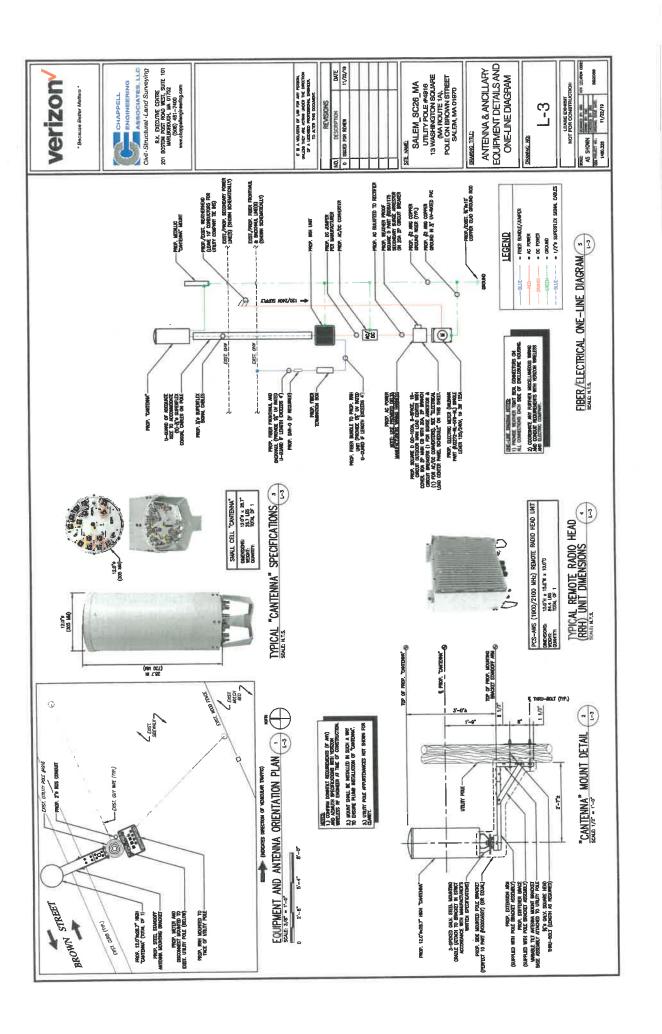
TOURING WRITES SHAL FOLK WITHER RESENTE PROLUCE PLUCKS ON INTER PLEASE AN AMELIAN TOURING TO BOTHY TOURING WHITES BE A CONTICT INTROMUNIX TO BE UTILIZED IN HIS COST OF BURGED.

MANUSCO OF INCLUDING THE DESIDING UITH POLICY TO SEPARATI DEPREDATED LADGE HIS RESENCENCE TO CHARACTER OF THE PROPERTY OF THE DESIDING WAS THE SEPARATI DEPREDATION SEPARATION LLE AND PRISE, THESE DOWNINGS ARE SEARCH TO CHARACTER OF THE OUTLOOK OF A SITURCTION WAS TO THE OUTLOOK OF A SITURCTION WAS TO THE OUTLOOK OF A SITURCTION.

THESE DOMINES HEE DIGGNERATE IN HATHER AND JARE HATHORD TO PROTING EDERNA, INSTRUMENT REMAINSHE THE LIGALITIA, SEE AND DOMININGS OF THE CORPORED WITH THE WAY HAT SPECIFICAL INSTRUMENT OF THE CORPORED WITH THE WAY SPECIFICALLY INSTRUMENT OF THE CORPORED WITH THE WAY SPECIFICALLY INSTRUMENT OF THE CORPORED WAY WAS NOT SPECIFICALLY INSTRUMENT.

UTILITY POLE #4916 PHOTOGRAPH (EXISTING CONDITIONS/SCHEMATIC RENDERING)

SIGN SIGN



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. Section 88 - Speed Zone Regulations of Article VIII be amended by repealing the following:

Valley Street – eastbound, beginning at the junction of Gallows Hill Road, thence easterly 0.15 miles at twenty-five (25) miles per hour, 0.18 miles at thirty-five (35) miles per hour, 0.18 miles at twenty-five (25) miles per hour, ending at the junction of Route 107, Highland Avenue; the total distance being 0.51 miles. (2/25/76 DPW 1019)

And replacing it with:

Valley Street – eastbound, beginning at the junction of Gallows Hill Road, thence easterly 0.15 miles at twenty-five (25) miles per hour, 0.18 miles at thirty-five (30) miles per hour, 0.18 miles at twenty-five (25) miles per hour, ending at the junction of Route 107, Highland Avenue; the total distance being 0.51 miles. (2/25/76 DPW 1019)

Section 2. Section 88 – Speed Zone Regulations of Article VIII be further amended by repealing the following:

Valley Street – west bound, beginning at the junction of Highland Avenue, Route 107, thence westerly, 0.18 miles at twenty-five (25) miles per hour, 0.18 miles at thirty-five (35) miles per hour, 0.15 miles at twenty-five (25) miles per hour, ending at the junction of Gallows Hill Road; the total distance being 0.51 miles. (2/25/75 DPW 1019)

And replacing it with:

Valley Street – west bound, beginning at the junction of Highland Avenue, Route 107, thence westerly, 0.18 miles at twenty-five (25) miles per hour, 0.18 miles at thirty-five (30) miles per hour, 0.15 miles at twenty-five (25) miles per hour, ending at the junction of Gallows Hill Road; the total distance being 0.51 miles. (2/25/75 DPW 1019)

Section 3. This Ordinance shall take effect as provided by City Charter.

In City Council March 26, 2020 Adopted for first passage

ATTEST:

ILENE SIMONS CITY CLERK



Kimberley Driscoll Mayor

Office of the Mayor

March 26, 2020

Honorable Salem City Council Salem City Hall Salem, Massachusetts 01970

Ladies and Gentlemen of the City Council:

The enclosed Ordinance reduces the existing posted speed limit on a portion of Valley Street from 35MPH to 30MPH. We strongly believe the reduction in speed will improve safety for all roadway users and for the neighborhood.

Currently this portion of this roadway is governed by MassDOT's Special Speed Regulation Number 1019, adopted in 1976. Since that time, the area surrounding Valley Street has significantly changed and, as such, the speed limit should account for those changes. In 1976, the 35MPH stretch of Valley Street had ten residential units. Since that time the number of units has doubled. In addition, commercial development along Highland Avenue has grown since then, including the expansion of North Shore Medical Center.

All these changes have contributed to further altering conditions from when the speed limit was fixed and increasing volumes along this stretch of roadway. Ironically, at the current 35MPH, Valley Street has a higher posted speed than Highland Avenue, which is an urban principal arterial and has a posted speed limit of 30MPH.

Over the past few years efforts have been made to curtail speeds both city wide and along roadways like Valley Street, where residents have reported speeding. In 2017, Salem's City Council voted to adopt Section 17C of MGL Chapter 90 reducing the statutory speed from 30MPH to 25MPH. Along Valley Street, police have increased enforcement as well as purchased and installed radar feedback signs. City staff are also currently exploring other measures that could be implemented to help reduce vehicular speeds on this stretch of roadway.

Reducing posted speed limits has been found to be one of the most effective ways to reduce severe injury or death in the event of a crash involving a pedestrian. We believe a reduction in

speed would consider the multiple changes which have occurred since this speed limit was originally established as well as improve the safety for all users on this roadway. This request is fully supported by the community and City staff including the Ward Councillor, Chief of Police, and DPS Director.

Last year the City petitioned MassDOT to amend Special Speed Regulation Number 1019 to reduce the limit to 30MPH and MassDOT has agreed to this request. The final step in this process is a vote of the City Council. I recommend adoption of the enclosed Ordinance to enact this needed public safety measure. If you have any questions about this request, please feel free to contact David Kucharsky or Lieutenant David Tucker.

Very truly yours,

Kimberley Driscoll

Kin Drivel

Mayor

City of Salem



City of Salem, Massachusetts

Office of the City Council
City Hall

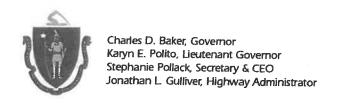


REQUEST FOR TRAFFIC ORDINANCE RECOMMENDATION

MEMO 10:	Lt. David Tuc	ker		Police Traffic Division
FROM:	Councilor	Flynn		DATE: March 24, 2020
In accor	rdance with the C	ouncil Rule 32A	A, I hereby request	your recommendation for the following
Traffic Ordinanc	e:			was to to to wing
NAME OF STR	REET	Valley Street		
TYPE OF STRI	EET CHANGE	Speed	1 Zone Regulations	
				Valley Street, speed limit in the center
section of the str	reet.			and control
COUNCILLOR	'S COMMENTS	S/EXPLANATIO	ON _ The statutor	y speed limit on Valley Street is currently
25 m.p.h. on both	h ends and 35 m.	o.h. in the middle	e section. In an eff	ort to increase safety, a traffic volume and
speed study was	conducted suppor	rting the request	of MassDOT to lo	wer the center section speed limit to 30 m.p.h.
				OMMENDATION
The Police				ommendation for the above request:
			APPROVAL	4.2.2.3.
			_ DENIAL	
			TRIAL PERIO	D
CHAPTER:	42 SECTIO	ON:88	TITLE:	Speed Zone Regulations
				Il Road, thence easterly 0.15 miles at twenty
-five (25) miles pe	er hour, 0.18 mile	s at thirty (30) m	niles per hour, 0.18	miles at twenty-five (25) miles per hour,
ending at the junc	tion of Route 107	, Highland Aven	nue; the total distan	ce being 0.51 miles.
West bound, begin	nning at the junct	ion of Highland	Avenue, Route 107	thence westerly, 0.18 miles at twenty-five
(25) miles per hou	r, 0.18 miles at th	urty (30) miles p	er hour, 0.15 miles	at twenty-five (25) miles per hour, ending at
the junction of Ga	llows Hill Road;	the total distance	being 0.51 miles.	
COMMENTS (IF A	ANY):			
				H. Sund Tunder

POLICE TRAFFIC DIVISION

RETURN THIS FORM TO THE CITY CLERK'S OFFICE





March 5, 2020

Honorable Kimberly Driscoll Mayor City of Salem Salem City Hall 93 Washington Street Salem, MA 01970

Dear Mayor Driscoll:

Attached are two copies of Special Speed Regulation No. 1019-A for the city way noted on the Regulation.

Please have two copies of each Regulation signed by the City Council, attested by the City Clerk and returned to the Massachusetts Department of Transportation, Highway Division, Traffic and Safety Engineering, 10 Park Plaza, Boston, Massachusetts 02116-3973, for further processing.

Sincerely,

Neil E. Boudreau

Assistant Administrator for Traffic and Safety

RFW/ Att.



MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

CITY OF SALEM SPECIAL SPEED REGULATION # 1019-A

Highway Location:

SALEM

Authority In Control:

CITY OF SALEM

Name of Highway (s):

VALLEY STREET

In accordance with M.G.L. c. 90, § 18, the following Special Speed Regulation is

Hereby Adopted

by the City Council

of the City of Salem

Special Speed Regulation number 1019, dated February 25, 1975 is hereby amended as follows:

That the following speed limits are established at which motor vehicles may be operated in the areas described:

VALLEY STREET - WESTBOUND

By striking out the clause reading:
0.18 miles at 35 miles per hour

And inserting in place thereof:
0.18 miles at 30 miles per hour

VALLEY STREET - EASTBOUND

By striking out the clause reading: 0.18 miles at 35 miles per hour

And inserting in place thereof:
0.18 miles at 30 miles per hour

Operation of a motor vehicle at a rate of speed in excess of these limits shall be prima facie evidence that such speed is greater than is reasonable and proper.

The provisions of this regulation shall not, however, abrogate M.G.L. c. 90, § 14

		•	
Date of Passage:		± g	
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CVENT COLD LOST			
CITY COUNCIL			
Attest			
CITY CLERK			
MASSACHUSETT	S DEPARTMENT OF	ΓRANSPORTATION	
SPECIAL	SPEED REGULATION	NO. 1019-A	
The Massachusetts Departn is consistent with the public interes	nent of Transportation do st.	es hereby certify that thi	is regulation
Standard signs must be erec	eted at the beginning of ea	ach zone.	
REGISTRY OF MOTOR VEHICL DIVISION	LES HIGHW	AY DIVISION	
DV.			
BY:Registrar	ВҮ:	Traffic Engineer	
	DATE:	_	



MASSACHUSETTS DEPARTMENT OF TRANSPORTATION

CITY OF SALEMSPECIAL SPEED REGULATION # 1019-A

Highway Location:

SALEM

Authority In Control:

CITY OF SALEM

Name of Highway (s):

VALLEY STREET

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VALLEY STREET - WESTBOUND

By striking out the clause reading:

0.18 miles at 35 miles per hour

And inserting in place thereof:

0.18 miles at 30 miles per hour

VALLEY STREET - EASTBOUND

By striking out the clause reading:

0.18 miles at 35 miles per hour

And inserting in place thereof:

0.18 miles at 30 miles per hour

Operation of a motor vehicle at a rate of speed in excess of these limits shall be prima facie evidence that such speed is greater than is reasonable and proper.

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Date of Passage:	
	
	
CIENT COLD ION	
CITY COUNCIL	
Attest	0
CITY CLERK	
MASSACHUSETTS DÉPAR	TMENT OF TRANSPORTATION
SPECIAL SPEED R	EGULATION NO. 1019-A
The Massachusetts Department of Trais consistent with the public interest.	insportation does hereby certify that this regulation
Standard signs must be erected at the	beginning of each zone.
REGISTRY OF MOTOR VEHICLES DIVISION	HIGHWAY DIVISION
BY:Registrar	BY:
Registrar	Traffic Engineer
	DATE:

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 49 – "Obedience to Isolated Stop Signs" is hereby amended by adding the following:

Osborne Street, northeasterly bound on Osborne Street and Walter Street. Osborne Street, southwesterly bound traffic on Osborne St. at Walter St.

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

In City Council March 26p 2020 Adopted for first passage

ATTEST:

ILENE SIMONS CITY CLERK

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 49 – "Obedience to Isolated Stop Signs" is hereby amended by adding the following:

Walter Street, northwesterly bound traffic on Walter Street at Osborne Street. Walter Street, southeasterly bound traffic on Walter Street at Osborne Street

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

In City Council March 26, 2020 Adopted for first pasage

ATTEST:

ILENE SIMONS CITY CLERK