

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
A PETITION OF CELLCO PARTNERSHIP : PETITION NO. ____
D/B/A VERIZON WIRELESS FOR A :
DECLARATORY RULING ON THE NEED TO :
OBTAIN A SITING COUNCIL CERTIFICATE :
FOR THE INSTALLATION OF A WIRELESS :
TELECOMMUNICATIONS FACILITY AT 192 :
MAIN STREET, NORWICH, CONNECTICUT : MARCH 21, 2019

PETITION FOR A DECLARATORY RULING:
INSTALLATION HAVING NO
SUBSTANTIAL ADVERSE ENVIRONMENTAL EFFECT

I. Introduction

Pursuant to Sections 16-50j-38 and 16-50j-39 of the Regulations of Connecticut State Agencies (“R.C.S.A.”), Cellco Partnership d/b/a Verizon Wireless (“Cellco”) hereby petitions the Connecticut Siting Council (the “Council”) for a declaratory ruling (“Petition”) that the installation of a “small cell” telecommunications facility at 192 Main Street in Norwich, Connecticut (the “Property”) would not have a substantial adverse environmental effect and would not require the issuance of a Certificate of Environmental Compatibility and Public Need (“Certificate”) under Connecticut General Statutes (“C.G.S.”) Section 16-50k(a).

II. Factual Background

The Property is a .30-acre parcel at the northeast corner of Broadway and Main Street in Norwich, Connecticut and is owned by Wauregan Development LLC. Cellco refers to this cell site as its “Norwich SC4 Facility”. The Property is located in the Chelsea Central (CC) zone district and is occupied by a four-story mixed use (commercial and residential) building. The Property is surrounded by similar commercial and residential uses. *See Attachment 1 – Site*

Vicinity and Site Schematic Maps (Aerial Photograph).

III. Proposed Norwich SC4 Facility

Cellco is licensed to provide wireless telecommunications services in the 700 MHz, 850 MHz, 1900 MHz and 2100 MHz frequency ranges in Norwich and throughout the State of Connecticut. The proposed Norwich SC4 Facility will transmit in Cellco's 1900 and 2100 frequency ranges. Cellco currently maintains three (3) existing wireless facilities in the area around the Property including its Norwich 2 facility – a roof-top facility at 101 High Street in Norwich; its Norwich West facility – an existing tower at 202 North Wawecus Hill Road in Norwich; and its Montville 4 facility – a tower site at 57 Cook Road in Montville. Cellco has identified a need for capacity relief for each of these existing facilities and determined that the proposed Norwich SC4 will satisfy that need.

The proposed Norwich SC4 Facility will consist of a single canister antenna and a remote radio head ("RRH") attached to a ballast-mount tower on the roof of the building. The tower mast, antenna and RRH will all be painted to match the existing HVAC equipment also located on the roof. Power and telephone service to the Norwich SC4 Facility will extend from existing service inside the building. The roof-top tower and canister antenna will extend to a height of 86.5 feet above ground level, ten feet above the building roof, 6.5 feet above the parapet wall and 5.5 feet lower than the height of the existing HVAC cooling unit on the roof of the building. (See Cellco's Project Plans included in Attachment 2). Specifications for Cellco's antenna and RRH are included in Attachment 3.

IV. Discussion

A. The Proposed Facility Modifications Will Not Have A Substantial Adverse Environmental Effect

The Public Utility Environmental Standards Act (the "Act"), C.G.S. § 16-50g et seq.,

provides for the orderly and environmentally compatible development of telecommunications towers in the state to avoid “a significant impact on the environment and ecology of the State of Connecticut.” C.G.S. § 16-50g. To achieve these goals, the Act established the Council, and requires a Certificate of Environmental Compatibility and Public Need for the construction of cellular telecommunication towers “that may, as determined by the council, have a substantial adverse environmental effect”. C.G.S. § 16-50k(a).

1. Physical Environmental Effects

Cellco respectfully submits that the installation of a small roof-top tower, supporting a single canister antenna and RRH, painted to match other mechanical equipment on the roof, will not involve a significant alteration in the physical and environmental characteristics of the Property.

2. Visual Effects

Cellco submits that the proposed Norwich SC4 Facility would not have an adverse visual impact on existing views of the building at the Property or to the character of the surrounding community. (See Visual Assessment & Photo-Simulations (“Visual Assessment”) included in Attachment 4). The proposed small cell facility will appear to blend in with existing utility infrastructure equipment on the roof of the building.

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed installation will be well below the standards adopted by the Federal Communications Commission (“FCC”). Included in Attachment 5 is a worst-case General Power Density calculation that demonstrates that Cellco’s Norwich SC4 Facility will operate well within the FCC safety standard.

4. FAA Notification Not Required

The proposed roof-top tower (including the canister antenna) will not be the tallest appurtenance on the roof. Notification to the FAA of Cellco's improvements is, therefore, not required.

B. Notice to the City, Property Owner and Abutting Landowners

On March 21, 2019, a copy of this Petition was sent to Norwich's Mayor, Peter A. Nystrom; Deanna Rhodes, Norwich's City Planner; and Wauregan Development LLC, the owner of the Property. Copies of the letters sent to the Mayor Nystrom, Ms. Rhodes and Wauregan Development LLC are included in Attachment 6.

A copy of this Petition was also sent to the owners of land that abut the Property. A sample abutter's letter and the list of those abutting landowners to whom notice was sent is included in Attachment 7.

V. Conclusion

Based on the information provided above, Cellco respectfully requests that the Council issue a determination, in the form of a declaratory ruling, that the installation of a roof-top tower, supporting a canister antenna and RRH and related equipment described above will not have a substantial adverse environmental effect and does not require the issuance of a Certificate of Environmental Compatibility and Public Need pursuant to § 16-50k of the General Statutes.

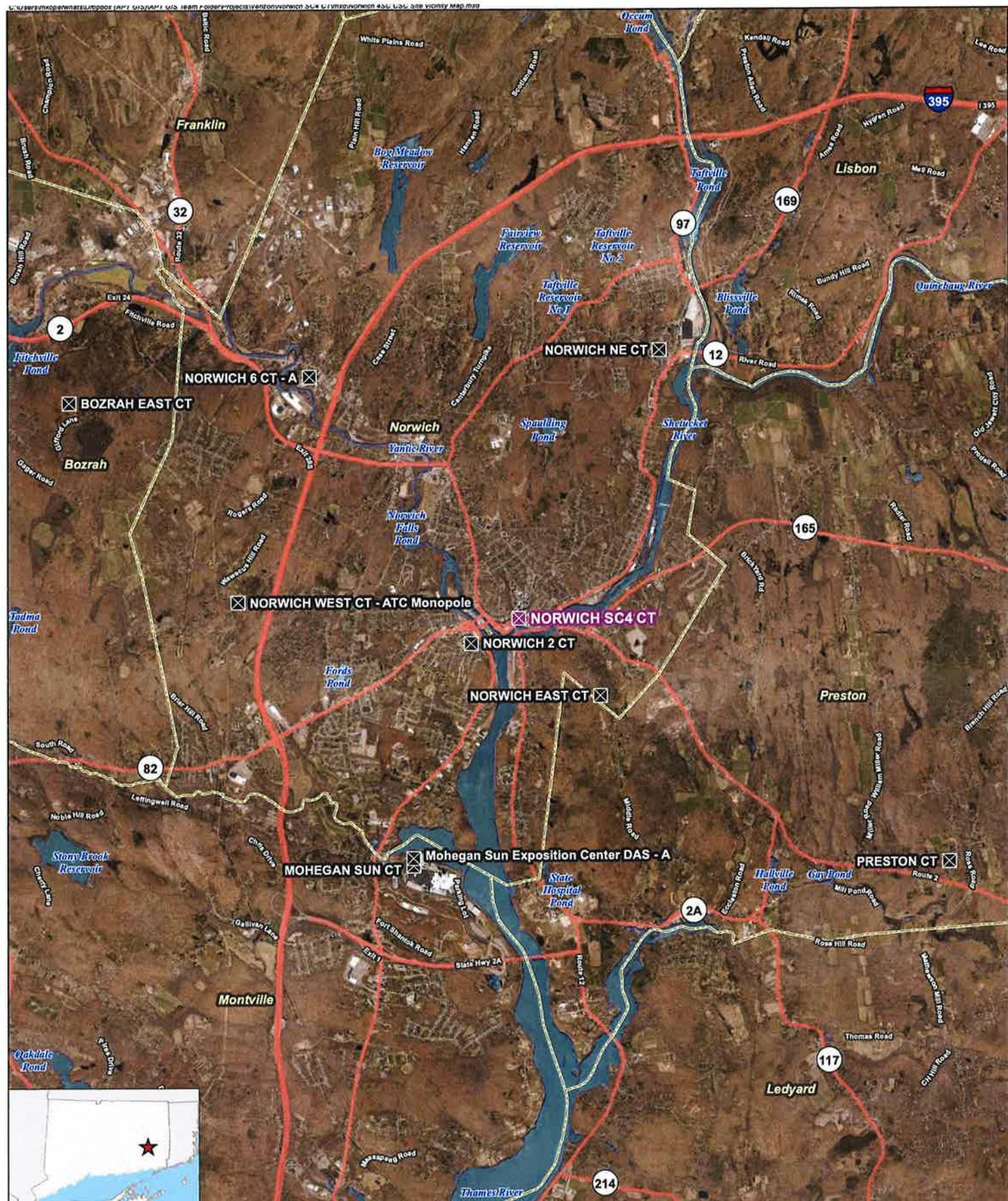
Respectfully submitted,

CELLCO PARTNERSHIP d/b/a VERIZON
WIRELESS

By


Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

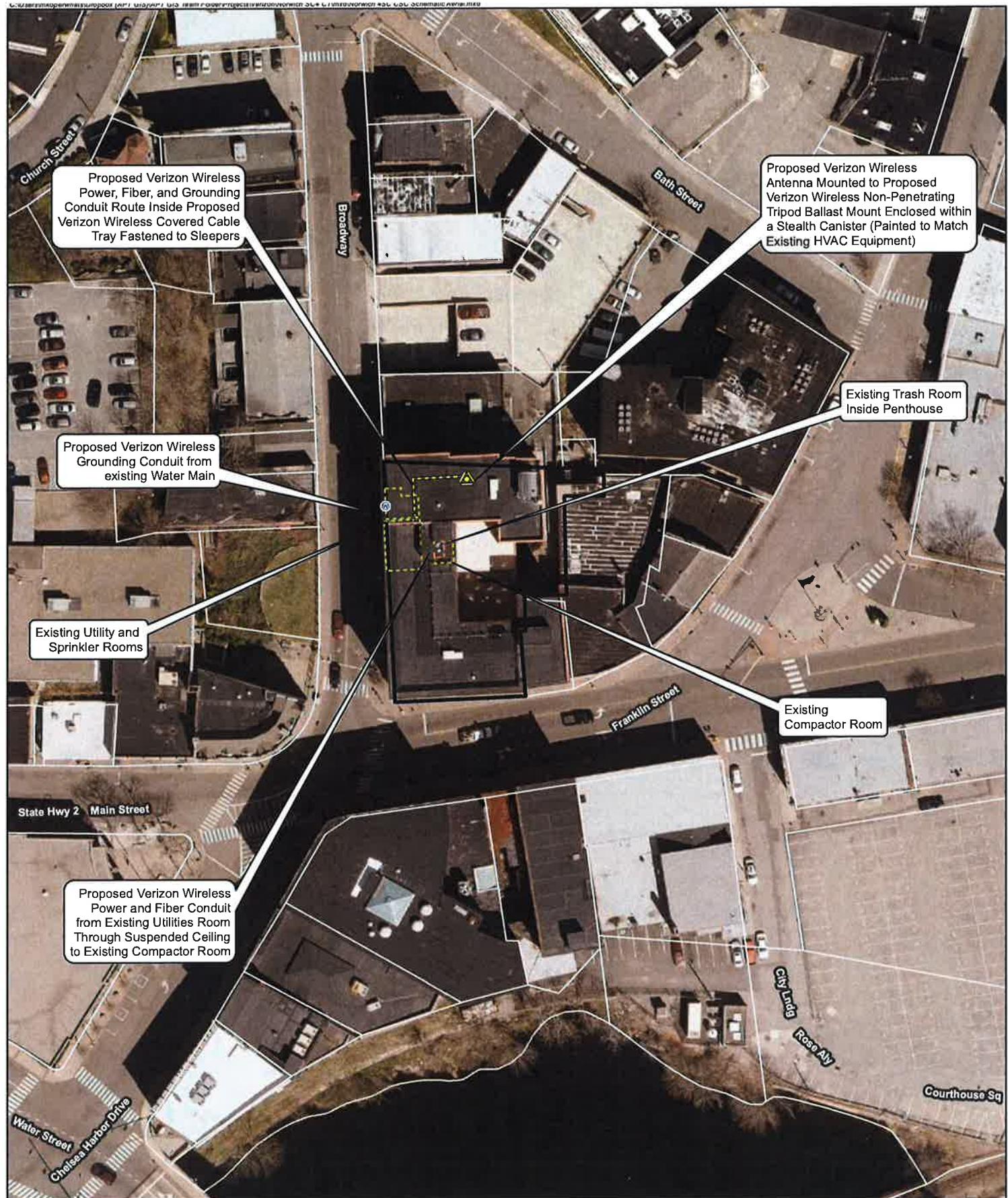
ATTACHMENT 1



Site Vicinity Map

Proposed Wireless
Telecommunications Facility
Norwich SC4 CT
192 Main Street
Norwich, Connecticut

verizon[®]



Legend

- Proposed Verizon Wireless Equipment
- Proposed Verizon Wireless Conduit
- Approximate Location of Existing Water Main (By Others)
- Existing Trash Room (By Others)
- Existing Basement Level Rooms (By Others)

- Subject Property
- Approximate Parcel Boundary (CTDEEP GIS)



80 40 0 80 Feet

Site Schematic

Proposed Wireless Telecommunications Facility
Norwich SC4 CT
192 Main Street
Norwich, Connecticut

verizon

ATTACHMENT 2

verizon[✓]

NORWICH SC4 CT
20181897566
192 MAIN STREET
NORWICH, CT 06360

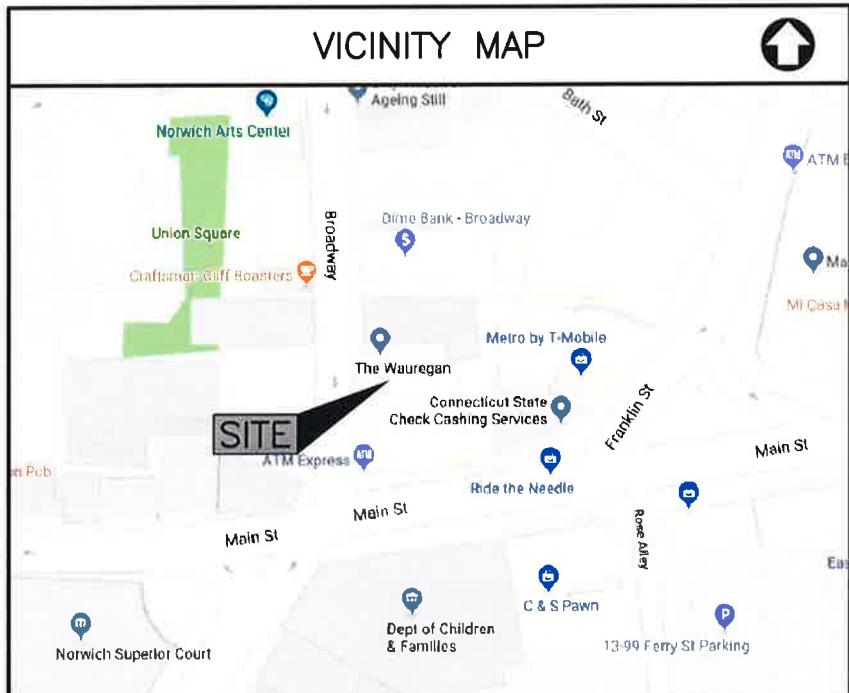
INSTALLATION OF ROOF-TOP WIRELESS TELECOMMUNICATIONS FACILITY

PROJECT INFORMATION

SITE NAME: NORWICH SC4 CT
SITE ADDRESS: 192 MAIN STREET
NORWICH, CT 06360
COORDINATES: LATITUDE: 41° 31' 29.41" N (NAD 83)
LONGITUDE: 72° 04' 32.02" W (NAD 83)
GROUND ELEVATION: 60'± A.M.S.L. (NAVD88)

SCOPE OF WORK

1. INSTALL (1) CANISTER ANTENNA ON PROPOSED TRIPOD MOUNT.
2. INSTALL (1) RRH ON PROPOSED TRIPOD MOUNT.
3. INSTALL (1) DIPLEXER ON PROPOSED TRIPOD MOUNT.
4. INSTALL (1) DISCONNECT ON PROPOSED TRIPOD MOUNT.
5. INSTALL (1) HOFFMAN DEMARC ON EXISTING PENTHOUSE WALL.
6. INSTALL (1) NON-PENETRATING TRIPOD BALLAST MOUNT ON EXISTING ROOFTOP.



DIRECTIONS

DIRECTIONS:
FROM WALLINGFORD, CT
HEAD NORTH ON ALEXANDER DR TOWARD BARNES INDUSTRIAL RD S, TURN RIGHT
ONTO BARNES RD AND HEAD NORTH FOR 0.1 MILES TO CT-68 E, TURN RIGHT
AND HEAD EAST ON CT-68 FOR 1.8 MILES TO I-91, HEAD NORTH ON I-91
FOR 17.3 MILES TO EXIT 25-26 (CT-3) TOWARDS GLASTONBURY, HEAD EAST
ON CT-3 FOR 2.4 MILES TO EXIT ONTO CT-2 TOWARDS NORWICH, HEAD
SOUTHEAST ON CT-2 FOR 20.0 MILES, THEN CONTINUE EAST ON CT-2 FOR
13.7 MILES TO CT-2/CT-32/WASHINGTON ST EXIT, TURN RIGHT AND HEAD
SOUTHEAST ON WASHINGTON ST FOR 0.5 MILES TO BROADWAY, TAKE SLIGHT
LEFT AND CONTINUE ON BROADWAY FOR 0.6 TO UNION ST, TAKE SLIGHT RIGHT
ONTO UNION AND HEAD SOUTH FOR 0.5 MILES TO MAIN ST, TURN LEFT ONTO
MAIN ST AND DESTINATION WILL BE ON THE LEFT.

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
Z-1	SITE PLAN
Z-2	PARTIAL BASEMENT LEVEL & BR LEVEL FLOOR PLAN
Z-3	WEST ELEVATION
Z-4	ABUTTERS MAP & LIST
Z-5	DETAILS

PROJECT TEAM

APPLICANT: CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492
PROPERTY OWNER: WAUREGAN DEVELOPMENT, LLC.
95 REEF ROAD
FAIRFIELD, CT 06824
ARCHITECT & ENGINEER: EBI CONSULTING
21 B STREET
BURLINGTON, MA 01803
(781) 273-2500
SITE ACQUISITION: EBI CONSULTING
21 B STREET
BURLINGTON, MA 01803
(781) 273-2500
LEGAL COUNSEL: KENNETH C. BALDWIN, ESQ
ROBINSON & COLE LLP
(860) 275-8345

APPLICANT:

verizon[✓]

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

PREPARED BY:

EBI Consulting
environmental | engineering | due diligence
21 B Street | Burlington, MA 01803
Tel: (781) 273-2500 | Fax: (781) 273-3311
www.ebiconsulting.com



Kelly Shanahan

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SUBMITTALS

NO.	DATE	DESCRIPTION	BY
A	03/20/19	FOR ZONING REVIEW	SM

EBI JOB NO:
8118000576

SITE INFO:
NORWICH SC4 CT
20181897566
192 MAIN STREET
NORWICH, CT 06360

SHEET TITLE:

TITLE SHEET

DRAWN BY: SM	SHEET NO: T-1
CHECKED BY: TS	
DATE: 02/22/19	

T-1



THIS PHOTO IS INSERTED TO
SHOW EXISTING CONDITIONS -
SEE ELEVATION AND DETAILS FOR
EQUIPMENT LAYOUT AND INFO

1 | KEY PLAN



This architectural diagram illustrates the proposed and existing equipment and conduit routes on a building roof. The diagram shows the following components and their locations:

- Proposed Equipment:**
 - Proposed (1) RRH (1) DIPLEXER AND (1) DISCONNECT MOUNTED TO PROPOSED PIPE MAST.
 - Proposed (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTED ALONG ROOF TO PROPOSED RRH.
 - Proposed (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTE THROUGH CEILING ON 5TH FLOOR TO CATS CLOSET.
 - Proposed (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTED FROM BASEMENT THROUGH STACKED TRASH ROOMS TO THE 5TH FLOOR.
 - Proposed 16" x 24.8" H CANISTER ANTENNA MOUNTED TO PROPOSED NON-PENETRATING TRIPOD BALLAST MOUNT TOWER MAST (SITE PRO NO.: TRPD-HD OR EQUAL) ENCLOSED WITHIN A STEALTH CANISTER (PAINT TO MATCH EXISTING HV/A/C EQUIPMENT).
- Existing Equipment and Features:**
 - Existing Parapet
 - Existing HVAC Unit
 - Existing Upper Roof
 - Existing HVAC Unit
 - Existing Roof Vent, Typ.
 - Existing Roof Hatch
 - Existing Satellite Dish to remain
 - Existing Elevator Penthouse
 - Existing Trash Room Inside Penthouse
 - Existing Roof Pipe
 - Existing Penthouse
 - Existing Roof Access
 - Existing Access Ladder, Typ.
 - Existing Sloped Roof
 - Existing Safety Railing
 - Existing Lower Roof
- Annotations and Labels:**
 - PROPOSED CONDUIT ROUTE INSIDE PROPOSED COVERED CABLE TRAY AND FASTENED TO SLEEPERS
 - PROPOSED (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTE THROUGH STACKED CATS CLOSET TO UPPER ROOF
 - PROPOSED HOFFMAN DEMARC MOUNTED TO EXTERIOR OF PENTHOUSE WALL
 - 1 E-3
 - SLOPE
 - 10'-0"
 - 10'-0"
 - EXISTING PARAPET
 - PROPOSED (1) RRH (1) DIPLEXER AND (1) DISCONNECT MOUNTED TO PROPOSED PIPE MAST
 - PROPOSED (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTED ALONG ROOF TO PROPOSED RRH
 - PROPOSED (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTE THROUGH CEILING ON 5TH FLOOR TO CATS CLOSET
 - PROPOSED (3) CONDUITS FOR POWER, FIBER & GROUNDING ROUTED FROM BASEMENT THROUGH STACKED TRASH ROOMS TO THE 5TH FLOOR
 - PROPOSED 16" x 24.8" H CANISTER ANTENNA MOUNTED TO PROPOSED NON-PENETRATING TRIPOD BALLAST MOUNT TOWER MAST (SITE PRO NO.: TRPD-HD OR EQUAL) ENCLOSED WITHIN A STEALTH CANISTER (PAINT TO MATCH EXISTING HV/A/C EQUIPMENT)
 - EXISTING HVAC UNIT
 - EXISTING ROOF VENT, TYP.
 - EXISTING ROOF HATCH
 - EXISTING SATELLITE DISH TO REMAIN
 - EXISTING ELEVATOR PENTHOUSE
 - EXISTING TRASH ROOM INSIDE PENTHOUSE
 - EXISTING ROOF PIPE
 - EXISTING PENTHOUSE
 - EXISTING ROOF ACCESS
 - EXISTING ACCESS LADDER, TYP.
 - EXISTING SAFETY RAILING
 - EXISTING LOWER ROOF
 - EXISTING PARAPET
 - EXISTING HVAC UNIT
 - EXISTING ROOF VENT, TYP.
 - EXISTING ROOF HATCH
 - EXISTING SATELLITE DISH TO REMAIN
 - EXISTING ELEVATOR PENTHOUSE
 - EXISTING TRASH ROOM INSIDE PENTHOUSE
 - EXISTING ROOF PIPE
 - EXISTING PENTHOUSE
 - EXISTING ROOF ACCESS
 - EXISTING ACCESS LADDER, TYP.
 - EXISTING SAFETY RAILING
 - EXISTING LOWER ROOF

SITE COORDINATES (SOURCE: GPS SURVEY):

LATITUDE: 41° 31' 29.41" N (NAD83)
LONGITUDE: 72° 04' 32.02" W (NAD83)
GROUND ELEVATION: 60' ± A.M.S.L. (NAVD88)

APPROX. NORTH

11x17 SCALE: 1/16" = 1'-0"
22x34 SCALE: 1/8" = 1'-0"

APPLICANT:

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

PREPARED BY:

 EBI Consulting
environmental | engineering | due diligence

21 B Street | Burlington, MA 01803
Tel: (781) 273-2500 | Fax: (781) 273-3311
www.ebiconsulting.com

A circular seal for a professional engineer. The outer ring contains the text "STATE OF CONNECTICUT" at the top and "PROFESSIONAL ENGINEER" at the bottom. The inner circle contains "KELLY M. SHANAHAN" in the center, with "No. 32254" below it. A small emblem or crest is positioned in the center of the inner circle.

Kelly Stark

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192 MAIN STREET
NORWICH CT 06360

SHEET TITLE: SITE PLAN

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CHECKED BY: TS	
DATE: 02/22/19	Z-1

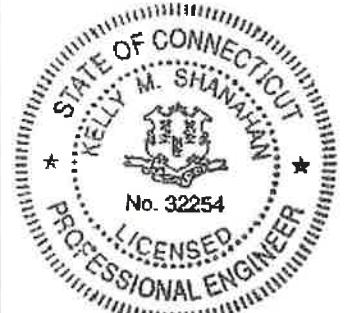
2 SITE PLAN

APPLICANT:

verizon

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Kelly Shanahan

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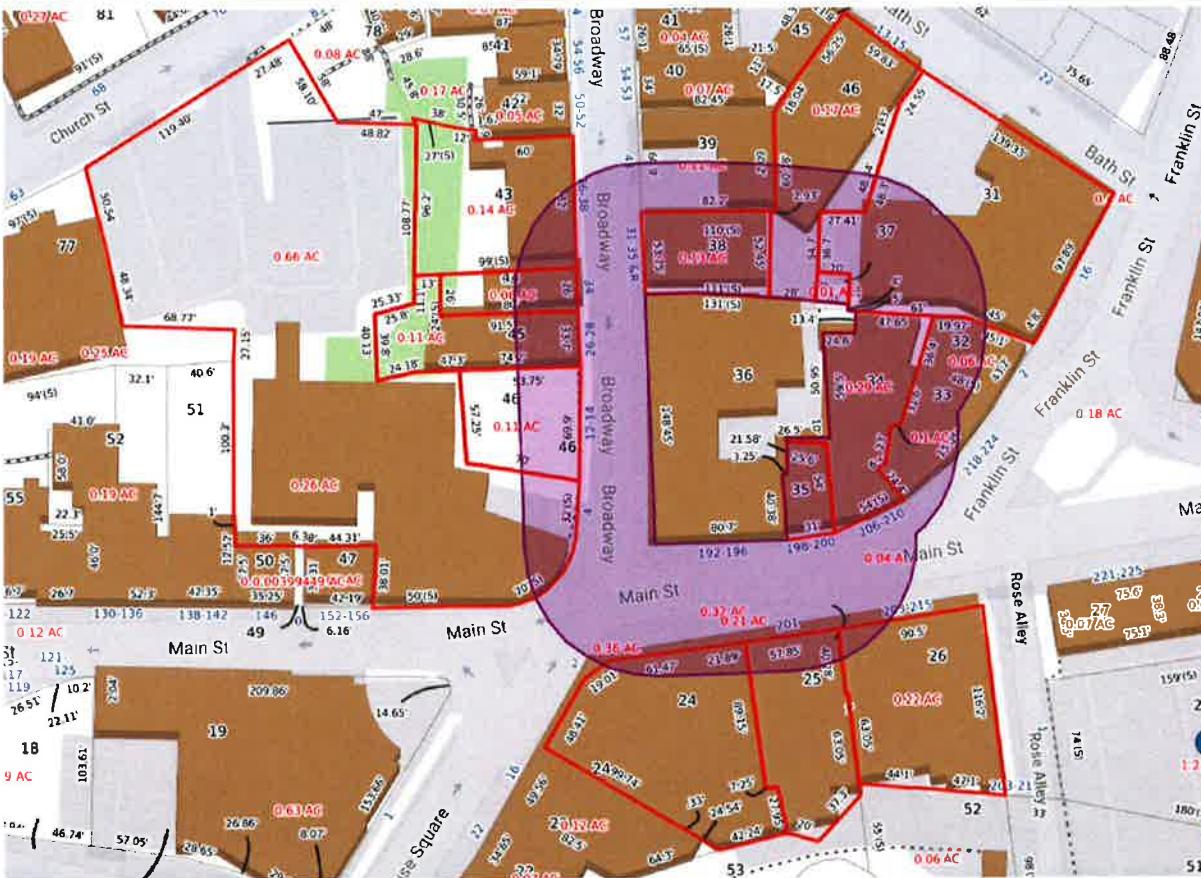
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NORWICH, CT 06360

SHEET TITLE:

WEST ELEVATION

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DATE: 02/22/19	

11x17 SCALE: 1/16" = 1'-0"
22x34 SCALE: 1/8" = 1'-0"



APPROX. NORTH

Table 1. Summary of the main characteristics of the four groups of patients.

1 ABUTTERS MAP

11X17 SCALE: N.T.S.

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Site Address	Owner Name	Owner Address	Owner City	Owner State	Owner Zip
206-210 MAIN ST	US AIHUA INTERNATIONAL GROUP LLC	206 MAIN ST	NORWICH	CT	06360
16 FRANKLIN ST	THAYER DEVELOPMENT GROUP LLC	55-59 CHRYSTIE ST SUITE#503	NEW YORK	NY	10002
31-35 BROADWAY REAR	NORWICH CITY OF	100 BROADWAY	NORWICH	CT	06360
34 BROADWAY	ROSE TOWN PROPERTIES LLC	45 BANK ST	NEW LONDON	CT	06320
36-48 BROADWAY	CHELSEA RELIANCE REALTY INC	40 BROADWAY	NORWICH	CT	06360
31-35 BROADWAY	DIME BANK	290 SALEM TPK	NORWICH	CT	06360
13-15 BATH ST	WAUREGAN DEVELOPMENT LLC	95 REEF ROAD	FAIRFIELD	CT	06824
201 MAIN ST	WOMENS INSTITUTE REALTY OF CONNECTICUT	75 CHARTER OAK AVE STE 1-200	HARTFORD	CT	06106
14-24 BROADWAY	TRINICAP PROPERTIES 5 LLC	PO BOX 132	FALMOUTH	MA	02540
26-28 BROADWAY	26-28 BROADWAY LLC	212 BETTS AVE	BRONX	NY	10473
2 COURTHOUSE SQ	NASSI CONNECTICUT REALTY LLC	111 OAK ST	HARTFORD	CT	06106
4 BROADWAY	TRINICAP PROPERTIES 5 LLC	PO BOX 132	FALMOUTH	MA	02541
198-200 MAIN ST	WAUREGAN DEVELOPMENT LLC	95 REEF RD	FAIRFIELD	CT	06824
203-215 MAIN ST	LORD FAMILY NOMINEE TRUST	241 MAIN ST	NORWICH	CT	06360

2 ABUTTERS LIST

APPLICANT:

verizon

20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

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The seal is circular with a decorative border. The outer ring contains the text "STATE OF CONNECTICUT" at the top and "PROFESSIONAL ENGINEER" at the bottom. The inner circle features a central shield with a bridge, flanked by two figures. Above the shield is the name "KELLY M. SHANAHAN" and below it is the number "No. 32254". The entire seal is surrounded by a decorative border.

Kelly Shook

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20181897566
192 MAIN STREET
NORWICH, CT 06360

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APPLICANT:

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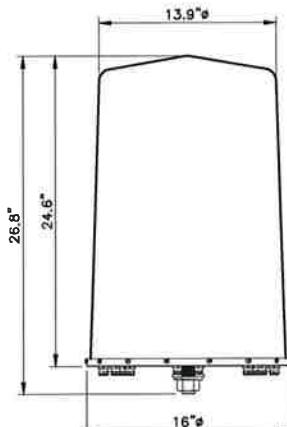
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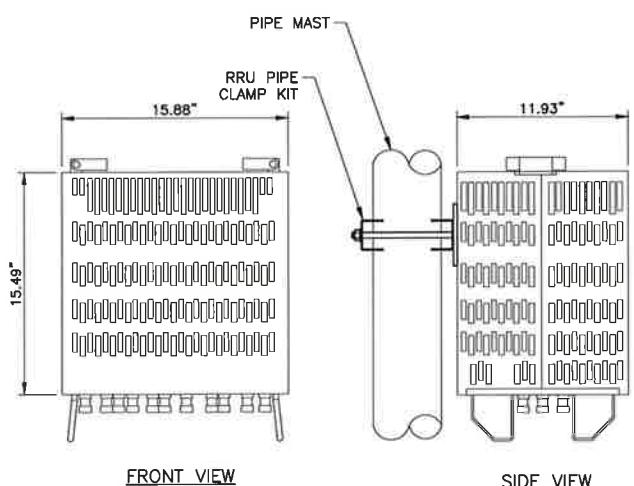
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 20181897566
 192 MAIN STREET
 NORWICH, CT 06360

SHEET TITLE: DETAILS

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 CHECKED BY: TS
 DATE: 02/22/19

Z-5


 KATHREIN - 84010603
 DIMENSIONS: 16.0"Øx24.6"H
 WEIGHT: 48 LBS.

 B2/B66A_RRH-BR049
 DIMENSIONS: 15.49" H x 15.88" W x 11.93" D
 WEIGHT: 40.4 LBS. (WITH FINGER GUARD)


N.T.S.

N.T.S.

DISCONNECT SWITCH SPECIFICATION

N.T.S.

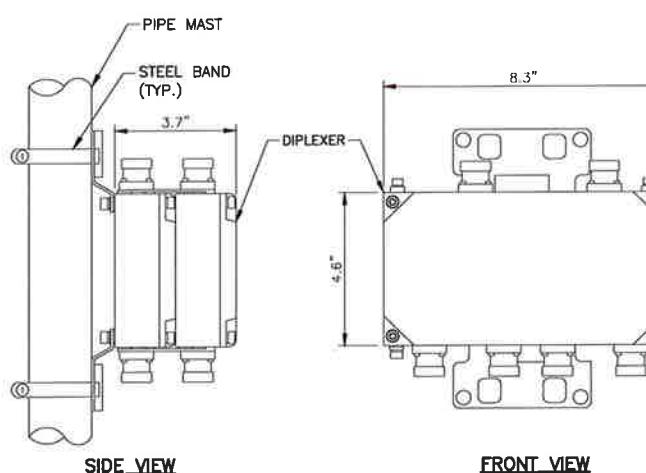
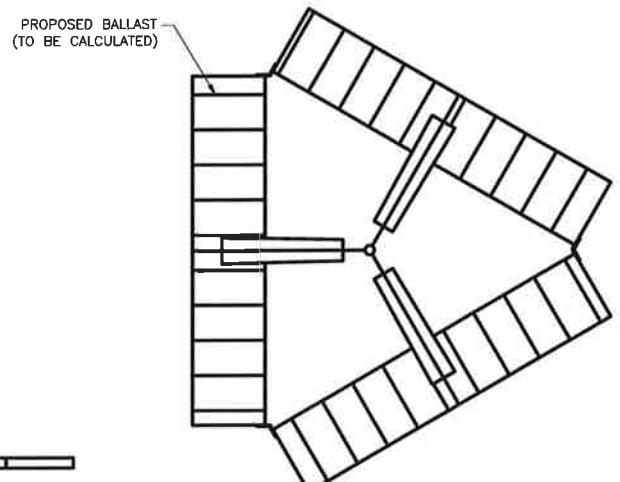
1 ANTENNA SPECIFICATION

2 RRH DETAIL & SPECIFICATION

N.T.S.

PROPOSED 2-3/8" - 4-1/2" PIPE MAST (TO BE DETERMINED BY STRUCTURAL)

PROPOSED NON-PENETRATING TRIPOD BALLAST MOUNT (SITE PRO PART NO. TRPD-HD, OR EQUAL)


 COMMSCOPE DIPLEXER: CBC1923T-43-2X
 DIMENSIONS: 4.6" H x 3.7" D x 8.3" W
 UNIT WEIGHT: 11 LBS.

N.T.S. 6 SPACE NOT USED

5 NON-PENETRATING TRIPOD MOUNT

ATTACHMENT 3

**20-Port Omni Antenna
Frequency Range
Dual Polarization
HPBW
Fixed Electr. DT**

KATHREIN

R1-R2	Y1, Y2	Y3, Y4	P1, P2	O1, O2
698-894	1695-2690	1695-2690	3400-4200	5150-5925
X	X	X	X	X
360°	360°	360°	360°	360°
0°	4°	6°	5°	0°



20-Port 698-894/1695-2690/1695-2690/3400-4200/5150-5925
360/360/360/360/360
3.5/9.0/9.0/6.8/5
0/4/6/5/4

Type No.	84010603	84010604
Radome color	Brown	Grey

Specifications		R1, connector 1-2		R2, connector 3-4	
		698-894		698-894	
Frequency range	MHz	698-806	824-894	698-806	824-894
Polarization		+45, -45	+45, -45	+45, -45	+45, -45
Gain	dBi	2x 3.5	2x 3.7	2x 3.8	2x 3.8
Horizontal Pattern:					
Half-power beamwidth	°	360 (with 10 dB nulls, typical)		360 (with 10 dB nulls, typical)	
Vertical pattern:					
Half-power beamwidth	°	68	63	68	60
Electrical tilt	°	0, fixed	0, fixed	0, fixed	0, fixed
Impedance	Ω	50			
VSWR		< 1.5			
Isolation	Intrasytem Intersystem	dB	> 23, typ. 27 > 28 (R1 // Y1, Y2, Y3, Y4) > 28 (R2 // Y1, Y2, Y3, Y4) > 20 (R2 // R1)	> 23, typ. 27 > 28 (R1 // Y1, Y2, Y3, Y4) > 28 (R2 // Y1, Y2, Y3, Y4) > 20 (R2 // R1)	
Intermodulation IM3	dBc	< -153 (2 x 43 dBm carrier)			
Max. power per input	W	125 (at 50°C ambient temperature)			

Values based on NGMN-P-BASTA (version 9.6) requirements.

All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

84010603, 84010604 2018-R3.0

Specifications		Y1, connector 5-6 Y2, connector 7-8			
1695–2690					
Frequency range	MHz	1695–1850	1850–2200	2300–2360	2490–2690
Polarization		+45, -45	+45, -45	+45, -45	+45, -45
Gain	dBi	8	8	8	7.5
Horizontal Pattern:					
Half-power beamwidth	°	360 with -9 dB null, typical	360 with -10 dB null, typical	360 with -11 dB null, typical	360 with -14 dB null, typical
Vertical pattern:					
Half-power beamwidth	°	18	16	14	12
Electrical tilt	°	4	4	4	4
Impedance	Ohms	50	50	50	50
VSWR		< 1.5	< 1.5	< 1.5	< 1.5
Isolation	Intrasytem Intersystem	dB	> 23 > 28	> 23 > 28	> 23 > 28
Intermodulation IM3	dBc	< -153 (2 x 43 dBm carrier)			
Max. power per input	W	150 (at 50°C ambient temperature)			

Values based on NGMN-P-BASTA (version 9.6) requirements.

**To have better performance in 4X4 MIMO, Kathrein recommends
that one uses the Y1 & Y2 (four connectors) as one set of MIMO.**

Specifications		Y3, connector 9–10 Y4, connector 11–12			
		1695–2690			
Frequency range	MHz	1695–1850	1850–2200	2300–2360	2490–2690
Polarization		+45, -45	+45, -45	+45, -45	+45, -45
Gain	dBi	7.5	8	8.5	8.7
Horizontal Pattern:					
Half-power beamwidth	°	360 with -9 dB null, typical	360 with -10 dB null, typical	360 with -11 dB null, typical	360 with -14 dB null, typical
Vertical pattern:					
Half-power beamwidth	°	18	16	14	12
Electrical tilt	°	6	6	6	6
Impedance	Ohms	50	50	50	50
VSWR		< 1.5	< 1.5	< 1.5	< 1.5
Isolation	Intrasytem Intersystem	dB	> 23 > 28	> 23 > 28	> 23 > 28
Intermodulation IM3			< -153 (2 x 43 dBm carrier)		
Max. power per input	W	150 (at 50°C ambient temperature)			

Values based on NGMN-P-BASTA (version 9.6) requirements.

To have better performance in 4X4 MIMO, Kathrein recommends that one uses the Y3 & Y4 (four connectors) as one set of MIMO.

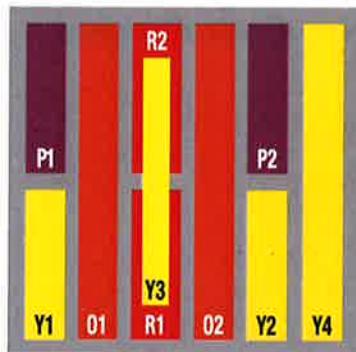
Specifications		P1, connector 13-14 P2, connector 15-16	
Frequency range	MHz	3400—3700	3700-4200
Polarization		+45, -45	+45, -45
Gain	dBi	6.8	6.8
Horizontal Pattern:			
Half-power beamwidth	°	360 with -15 dB null, typical	360 with -15 dB null, typical
Vertical pattern:			
Half-power beamwidth	°	28	23
Electrical tilt	°	5	5
Impedance	Ohms	50	50
VSWR		< 1.5	< 1.5
Isolation	Intrasytem Intersystem	dB	> 23 > 28
Intermodulation IM3	dBc	N/A	N/A
Max. power per input	W	100 (at 50°C ambient temperature)	100 (at 50°C ambient temperature)

Values based on NGMN-P-BASTA (version 9.6) requirements.

Specifications		O1, connector 17-18 · O2, connector 19-20					
Frequency range	MHz	5150–5350	5350–5470	5470–5725	5725–5850	5850–5925	
Polarization		+45, -45					
Gain (typical/maximum)	dBi	5.0/5.8	5.0/5.6	5.0/6.0	5.5/6.0	5.5/6.0	
Horizontal Pattern:							
Half-power beamwidth	°	360 with -15 dB null, typical					
Vertical pattern:							
Half-power beamwidth	°	20	20	19	16	16	
Electrical tilt	°	0					
Impedance	Ohms	50					
VSWR		< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	
Isolation	Intrasytem Intersystem	dB dB	> 25 > 28				
Intermodulation IM3	dBc	N/A					
Max. power per input	W	50 (at 50°C ambient temperature)					
Max. input power* per radio	W	1.0	-	1.0	1.0	-	

Values based on NGMN-P-BASTA (version 9.6) requirements.

*To comply with EIRP restrictions for FCC Title 47 and part 15 for fixed outdoor point to multi-point applications.



Mechanical specifications

Input	20 x 4.3-10 connector female	
Connector position	Bottom	
Weight	kg lb	21.8 48.0
Wind load (at Rated Wind Speed: 150km/h)	N lbf	138 32
Max. wind velocity	km/h mph	242 150
Mechanical interface	Hex nut (requires a 1-1/2" wrench) Torque setting: 122 Nm 90 lbf-ft	
Packing size	mm inches	755 x 480 x 480 29.7 / 18.9 / 18.9
Height / diameter	mm inches	626 / 407 24.6 / 16

All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

84010603, 84010604 2018-R3.0

Accessories

General Information

84010603/84010604

KATHREIN

Antenna area: Reflector screen: Aluminum.

Radiator: Tin plated zinc.

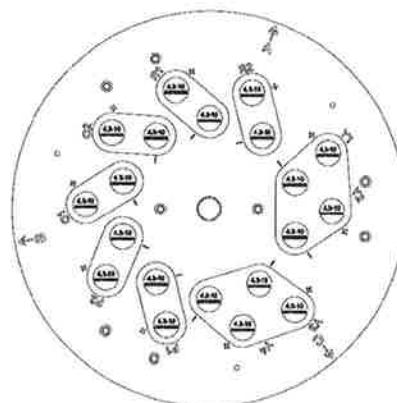
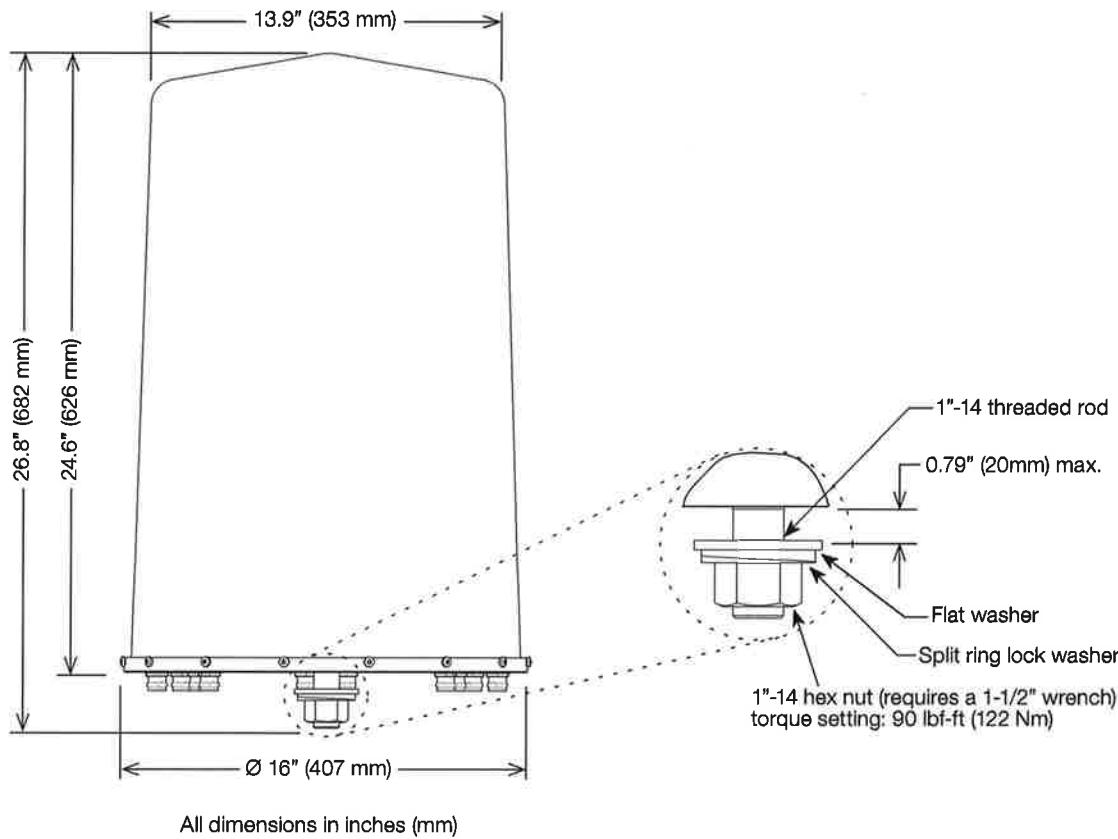
Cylindrical fiberglass radome: The max. radome diameter is 407mm (16").

Fiberglass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting.

Radome color 84010603: Brown.

Radome color 84010604: Grey.

Mounting: Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.



Consult antenna patterns to determine direction of maximum signal strength per band.
Reference point "A" corresponds to 0°

Avoid obstructing any drain holes

All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

84010603, 84010604 2018-R3.0

SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2) RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

ATTACHMENT 4

Visual Assessment & Photo-Simulations



NORWICH SC4 CT
20181897566
192 MAIN STREET
NORWICH, CT 06360

Prepared in March 2019 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06419

Prepared for Verizon Wireless



VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Celco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed this visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a small cell wireless telecommunications facility ("Facility") at 129 Main Street in Norwich, Connecticut (the "Host Property").

Project Setting

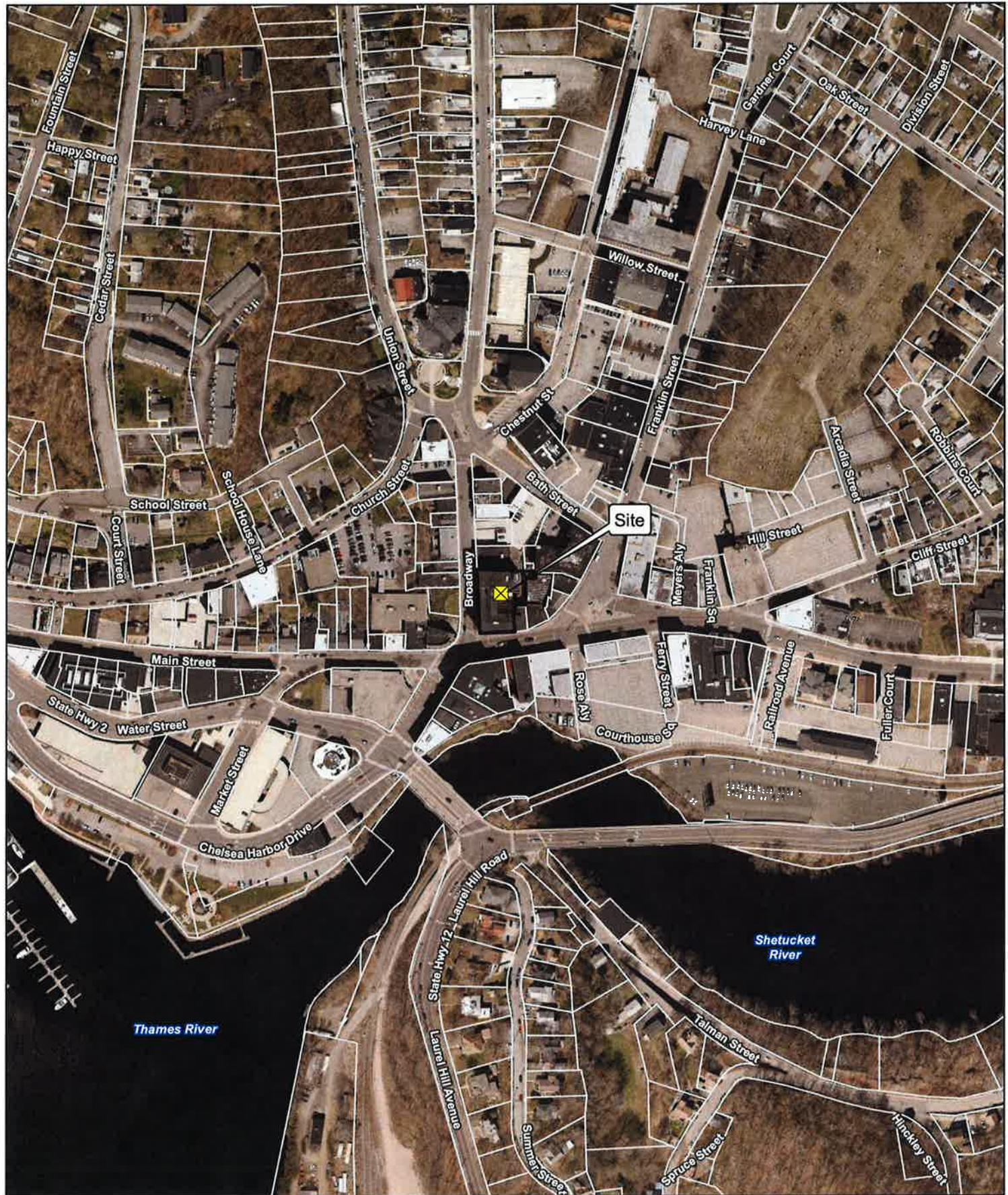
The Host Property is located northeast of the Main Street and Broadway intersection in downtown Norwich. The Host Property is currently developed with a large, five- and six-story, brick residential apartment building (*The Wauregan*). The surrounding land use consists primarily of street-level commercial development with residential apartments. *See Figure 1 – Site Location Map.*

The proposed Facility would be located in the northcentral portion of the building's rooftop and would include one (1) dual-band quasi-omni antenna, enclosed within a radio frequency transparent canister, mounted to a non-penetrating rooftop tripod ballast frame. The canister would be painted to match existing, adjacent HVAC equipment. The height of the proposed Facility would extend approximately 6 feet 6 inches above the existing building's upper roof line. Utility connections would be routed internally down to the building's basement. The proposed Facility components and their locations are illustrated in *Figure 2 – Proposed Equipment Location Plan* and *Figure 3 – Proposed Equipment Elevation Plan*.

Methodology

On January 28, 2019, APT personnel completed a field reconnaissance and photo-documented existing conditions. At each photo location, the geographic coordinates of the camera's position were logged using global positioning system ("GPS") technology. Photographs were taken with a Canon EOS 6D digital camera body and Canon EF 24 to 105 millimeter ("mm") zoom lens using a focal length of 50 mm for consistency. The Canon EOS 6D is a full-framed camera which includes a lens receptor of the same size as the film used in 35mm cameras. As such, the images produced are comparable to those taken with a conventional 35 mm camera.

Three-dimensional computer models were developed for the building and proposed wireless telecommunication components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area. A photolog map and copies of the existing conditions and photo-simulations are attached.



Legend

- Site
- Subject Property
- Approximate Parcel Boundary (CTDEEP GIS)

Map Notes:
Base Map Source: CT ECO 2016 Imagery
Map Scale: 1 inch = 300 feet
Map Date: March 2019

300 150 0 300
Foot

Figure 1 - Site Location Map

Proposed Wireless
Telecommunications Facility
Norwich SC4 CT
192 Main Street
Norwich, Connecticut

verizon

ALL-POINTS
TECHNOLOGY CORPORATION

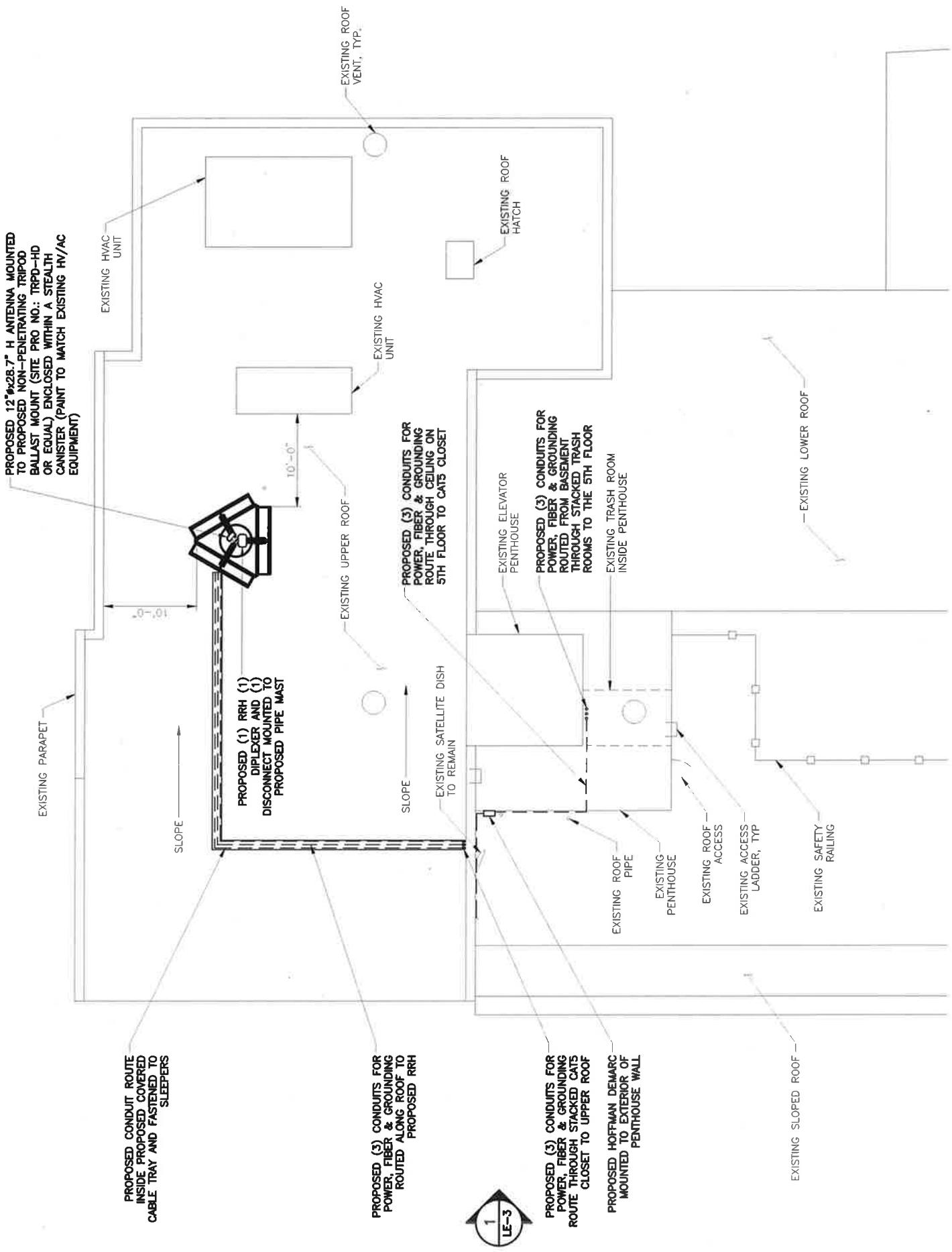


FIGURE 2 - PROPOSED EQUIPMENT LOCATION PLAN
Details extracted from technical drawings prepared by EBI Consulting dated 2-25-19. NOT TO SCALE.

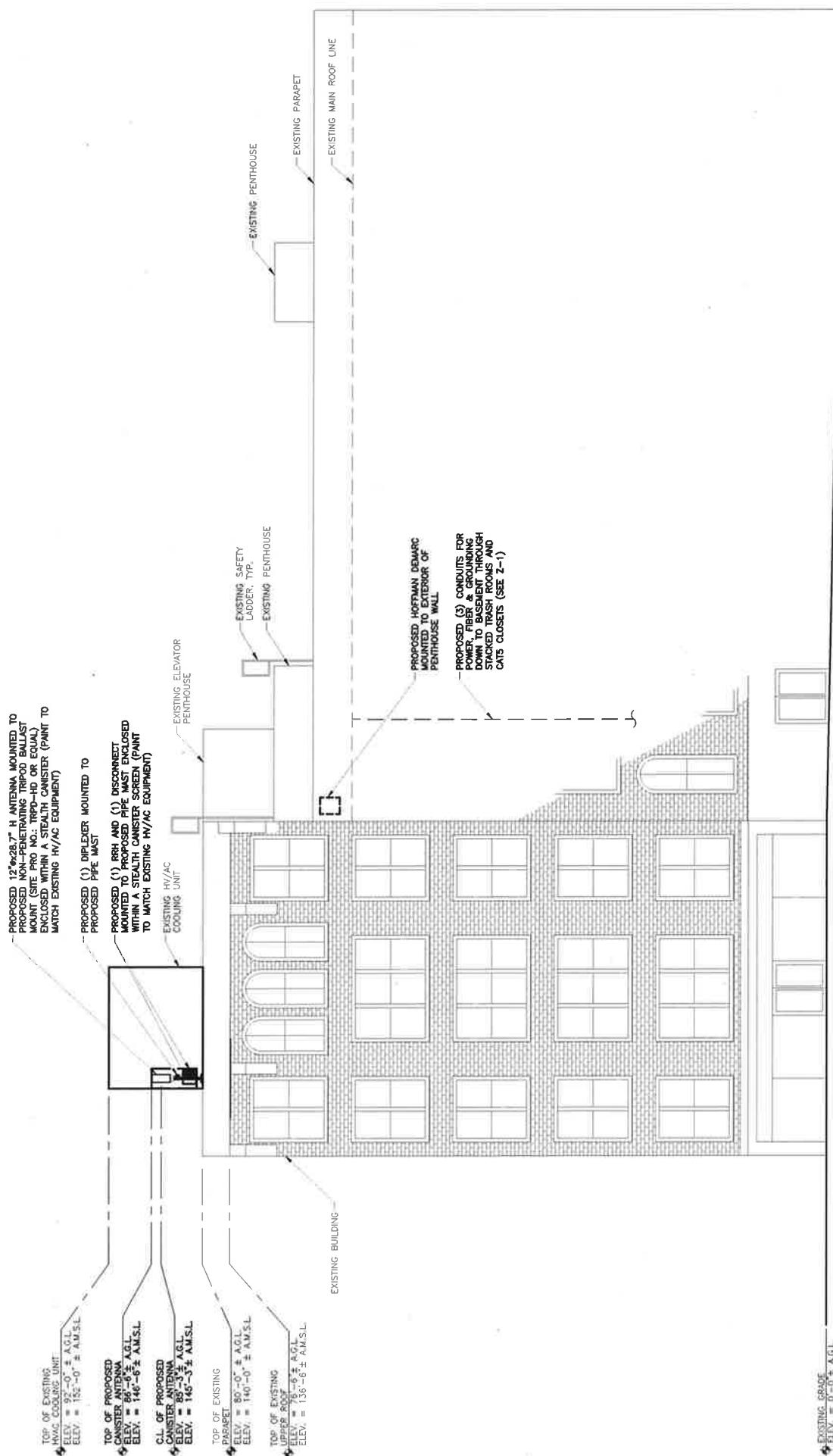


FIGURE 3 - PROPOSED EQUIPMENT ELEVATION PLAN
 Details extracted from technical drawings prepared by EBI Consulting dated 2-25-19, NOT TO SCALE.

Photograph Locations

A total of seven (7) photographs were obtained to document existing conditions and demonstrate the general extent of visibility associated with the proposed Facility. Five (5) photo-locations were simulated and present generally unobstructed view lines towards at least a portion of the proposed rooftop installation. The table below summarizes characteristics of the photographs and simulations presented in the attachment to this report including a description of each location, view orientation, and the distance from where the photo was taken relative to the proposed Facility. The photo locations are depicted on the photo-log map provided in the attachment to this report.

View	Location	Orientation	Distance to Site
1	Chestnut Street	South	±370 Feet
2	Broadway	Southeast	±281 Feet
3	Bath Street	Southwest	±257 Feet
4	Main Street	Northwest	±0.17 Mile
5	Viaduct Road*	Northeast	±0.10 Mile
6	Chelsea Harbor Drive*	Northeast	±341 Feet
7	Parking Lot – 68 Church Street	Southeast	±242 Feet

*Not Visible from this location

Conclusions

The visibility of the proposed Facility would be primarily limited to locations immediately surrounding the building, where the top of the building can be seen today. The dense urban development creates corridors of visibility from adjoining roads, as several tall, intervening buildings restrict direct lines of sight from many nearby street-level locations. Utility infrastructure exists on the building roof; the addition of the small cell Facility would be consistent with existing equipment on the Host Property building as well as several surrounding structures.

The location and design of the proposed Facility would not substantially alter the general appearance of the building as it exists today. Based on the results of this assessment, it is our opinion that the proposed installation of the Verizon Wireless Facility will not have an adverse visual impact on existing views of this building or the character of the community.

Limitations

The photo-simulations provide a representation of the Facility under similar settings as those encountered during the reconnaissance. They are however static in nature and do not necessarily characterize the prevailing views from all locations within a given area. For example, moving a few feet in either direction from a specific photo location may significantly alter the view, including obscuring the Facility altogether. Views of the Facility can change throughout the seasons and the time of day, and are dependent on weather and other atmospheric conditions (e.g., haze, fog, clouds); the location, angle and intensity of the sun; and the specific viewer location.

ATTACHMENTS



PHOTO LOG

Legend

- Site
- Visible
- Not Visible



EXISTING

PHOTO

LOCATION

CHESTNUT STREET

ORIENTATION

SOUTH

DISTANCE TO SITE

+/- 370 FEET

VISIBILITY

VISIBLE

 ALL-POINTS
TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO
1

LOCATION
CHESTNUT STREET

ORIENTATION
SOUTH

DISTANCE TO SITE
+/- 370 FEET

VISIBILITY
VISIBLE



PHOTO

2

EXISTING

LOCATION
BROADWAYORIENTATION
SOUTHEASTDISTANCE TO SITE
+/- 281 FEETVISIBILITY
VISIBLE



PROPOSED

PHOTO

2

BROADWAY
LOCATION

SOUTHEAST
ORIENTATION

+/- 281 FEET
DISTANCE TO SITE

VISIBLE
VISIBILITY



verizon

**EXISTING**

PHOTO

3

LOCATION

BATH STREET

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 257 FEET

VISIBILITY

VISIBLE

**ALL-POINTS**
TECHNOLOGY CORPORATION**verizon**



PHOTO

3

LOCATION

BATH STREET

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 257 FEET

VISIBILITY

VISIBLE



verizon



EXISTING

PHOTO

4

LOCATION

MAIN STREET

ORIENTATION

NORTHWEST

VISIBILITY

+/- 0.17 MILE

PHOTOGRAPH



verizon

PROPOSED

PHOTO

4

LOCATION

MAIN STREET

ORIENTATION

NORTHWEST

DISTANCE TO SITE

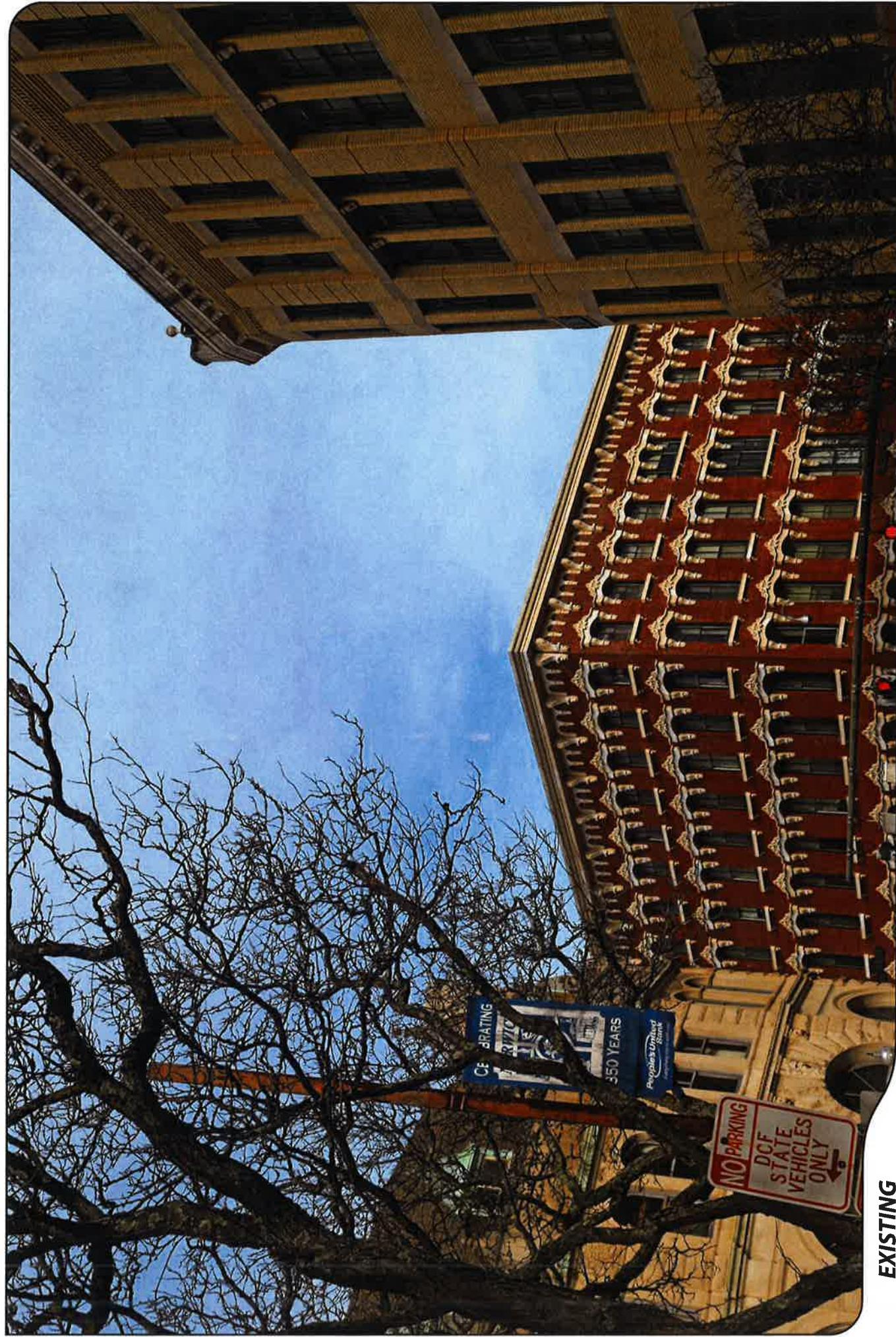
+/- 0.17 MILE

VISIBILITY

VISIBLE



EXISTING	PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE	VISIBILITY
	5	VIADUCT ROAD	NORTHEAST	+/- 0.10 MILE	NOT VISIBLE



EXISTING

PHOTO

6

LOCATION

CHELSEA HARBOR DRIVE

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 341 FEET

VISIBILITY

NOT VISIBLE



verizon



EXISTING

PHOTO

LOCATION

ORIENTATION

DISTANCE TO SITE

VISIBILITY

PARKING LOT - 68 CHURCH STREET

+/- 242 FEET

SOUTHEAST

7

 ALL-POINTS
TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO

7

PARKING LOT - 68 CHURCH STREET

LOCATION

ORIENTATION

DISTANCE TO SITE

VISIBILITY

+/- 242 FEET



verizon

ATTACHMENT 5

Site Name: NORWICH SC 4 CT
Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target (feet)	Calculated Power Density (mW/cm^2)	Maximum Permissible Exposure* (mW/cm^2)	Fraction of MPE (%)
VZW PCS	1970	1	690.679	690.679	85.25	0.0342	1.0	3.42%
VZW Cellular	869		1854.58	0	85.25	0.0000	0.5793333333	0.00%
VZW AWS	2145	1	615.568	615.568	85.25	0.0305	1.0	3.05%
VZW 700	746		2749.6	0	85.25	0.0000	0.4973333333	0.00%

Total Percentage of Maximum Permissible Exposure

6.46%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used, including the following assumptions:

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

ATTACHMENT 6

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

March 21, 2019

Via Certificate of Mailing

Peter Albert Nystrom, Mayor
City of Norwich
100 Broadway
Norwich, CT 06360

Re: **Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Wireless Telecommunications Facility at 192 North Main Street, Norwich, Connecticut**

Dear Mayor Nystrom:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a new “small cell” wireless telecommunications facility on the roof of the building at 192 North Main Street in Norwich (the “Property”).

The facility will consist of a ballast-mount roof-top tower supporting a single canister antenna and a remote radio head (“RRH”). The tower will be located in the northerly portion of the roof and extend to a height of 86.5 feet above ground level; ten (10) feet above the roof; 6.5 feet above the building parapet; and 5.5 feet lower than the height of the existing HVAC cooling unit on the roof of the building. The roof-top tower, antenna and RRH will be painted to match the existing HVAC equipment on the roof.

A copy of the full Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

19103036-v1

Robinson + Cole

Peter Albert Nystrom, Mayor

March 21, 2019

Page 2

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

Sincerely,

A handwritten signature in black ink, appearing to read "KCB".

Kenneth C. Baldwin

Attachment

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

March 21, 2019

Via Certificate of Mailing

Deanna Rhodes, City Planner
City of Norwich
23 Union Street
Norwich, CT 06360

Re: Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Wireless Telecommunications Facility at 192 North Main Street, Norwich, Connecticut

Dear Ms. Rhodes:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a new “small cell” wireless telecommunications facility on the roof of the building at 192 North Main Street in Norwich (the “Property”).

The facility will consist of a ballast-mount roof-top tower supporting a single canister antenna and a remote radio head (“RRH”). The tower will be located in the northerly portion of the roof and extend to a height of 86.5 feet above ground level; ten (10) feet above the roof; 6.5 feet above the building parapet; and 5.5 feet lower than the height of the existing HVAC cooling unit on the roof of the building. The roof-top tower, antenna and RRH will be painted to match the existing HVAC equipment on the roof.

A copy of the full Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

19103106-v1

Robinson+Cole

Deanna Rhodes, City Planner
March 21, 2019
Page 2

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

Sincerely,

A handwritten signature in black ink, appearing to read "KCB".

Kenneth C. Baldwin

Attachment

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

March 21, 2019

Via Certificate of Mailing

Wauregan Development LLC
95 Reef Road
Fairfield, CT 06824

Re: **Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Wireless Telecommunications Facility at 192 North Main Street, Norwich, Connecticut**

Dear Sir or Madam:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a new “small cell” wireless telecommunications facility on the roof of the building at 192 North Main Street in Norwich (the “Property”).

The facility will consist of a ballast-mount roof-top tower supporting a single canister antenna and a remote radio head (“RRH”). The tower will be located in the northerly portion of the roof and extend to a height of 86.5 feet above ground level; ten (10) feet above the roof; 6.5 feet above the building parapet; and 5.5 feet lower than the height of the existing HVAC cooling unit on the roof of the building. The roof-top tower, antenna and RRH will be painted to match the existing HVAC equipment on the roof.

A copy of the full Petition is attached for your review. Landowners whose parcels abut the Property were also sent notice of this filing along with a copy of the Petition.

19103158-v1

Robinson+Cole

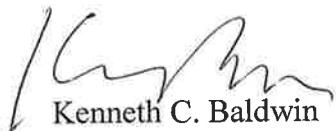
Wauregan Development LLC

March 21, 2019

Page 2

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

Sincerely,

A handwritten signature in black ink, appearing to read "KCB".

Kenneth C. Baldwin

Attachment

ATTACHMENT 7

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts

March 21, 2019

Via Certificate of Mailing

«Name_and_Address»

Re: **Petition for Declaratory Ruling Filed with the Connecticut Siting Council for the Installation of a Small Cell Wireless Telecommunications Facility at 192 North Main Street, Norwich, Connecticut**

Dear «Salutation»:

This firm represents Cellco Partnership d/b/a Verizon Wireless (“Cellco”). Today, Cellco filed a Petition for Declaratory Ruling (“Petition”) with the Connecticut Siting Council (“Council”) seeking approval to establish a new “small cell” wireless telecommunications facility on the roof of the building at 192 North Main Street in Norwich (the “Property”).

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March 21, 2019

Page 2

This notice is being sent to you because you are listed on the City Assessor's records as an owner of land that abuts the Property. If you have any questions regarding the Petition, the Council's process for reviewing the Petition or the details of the filing itself, please feel free to contact me at the number listed above. You may also contact the Council directly at 860-827-2935.

Sincerely,



Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

**192 MAIN STREET
NORWICH, CONNECTICUT**

	Property Address	Owner's and Mailing Address
1.	31-35 Broadway	Dime Bank 290 Salem Turnpike Norwich, CT 06360
2.	13-15 Bath Street	Wauregan Development LLC 95 Reef Road Fairfield, CT 06824
3.	16 Franklin Street	Thayer Development Group LLC 55-59 Christie Street, Suite 503 New York, NY 10002
4.	206-210 Main Street	US AIHUA International Group 206 Main Street Norwich, CT 06360
5.	198-200 Main Street	Wauregan Development LLC 95 Reef Road Fairfield, CT 06824
6.	203-215 Main Street	Lord Family Nominee Trust Jeffrey Lord and Kathryn Lord TRS 241 Main Street Norwich, CT 06360
7.	201 Main Street	Womens Institute Realty of Connecticut 75 Charter Oak Avenue, Suite 1-200 Hartford, CT 06106
8.	2 Courthouse Square	Nassi Connecticut Realty LLC c/o Ronald Peikes 111 Oak Street Hartford, CT 06106

	Property Address	Owner's and Mailing Address
9.	4 Broadway	Trinicap Properties 5 LLC P.O. Box 132 Falmouth, MA 02541
10.	14-24 Broadway	Trinicap Properties 5 LLC P.O. Box 132 Falmouth, MA 02541
11.	26-28 Broadway	26-28 Broadway LLC 212 Betts Avenue Bronx, NY 10473
12.	34 Broadway	Rose Town Properties LLC 45 Bank Street New London, CT 06320
13.	36-48 Broadway	Chelsea Reliance Realty Inc. 40 Broadway Norwich, CT 06360
14.	31-35 Broadway - Rear	City of Norwich 100 Broadway Norwich, CT 06360