

August 29, 2023

*Via Electronic Mail and Hand Delivery*

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: **Notice of Exempt Modification  
Sound on Sound Music Festival – Temporary Telecommunications Facility  
350 Waldemere Ave., Bridgeport, Connecticut**

Dear Attorney Bachman:

Pursuant to R.C.S.A. Section 16-50j-72(d), this letter will serve as notice that Cellco Partnership d/b/a Verizon Wireless (“Cellco”) intends to install a temporary wireless facility (a/k/a “Cell on Wheels” or “COW”) for use during this year’s “Sound on Sound Music Festival” at Seaside Park in Bridgeport on September 30 and October 1, 2023.

Cellco intends to install its COW on a baseball field in the southernly portion of Seaside Park, north of Soundview Drive and west of Iranistan Avenue (the “Property”). Included in Attachment 1 is a letter from the Bridgeport Music Festivals, LLC authorizing the filing of this notice. In accordance with R.C.S.A. Section 16-50j-73, a copy of this filing has been sent to Joseph Ganim, Mayor, Paul Boucher, Zoning Administrator, and Bridgeport Music Festivals, LLC. The City of Bridgeport is the owner of the Property.

The COW that Cellco intends to install at the Property is a trailer-mounted wireless facility with a retractable mast extending to a height of 46 feet above ground level (“AGL”). Cellco will attach nine (9) panel antennas to the mast, two (2) at a height of 46.5 feet AGL; two (2) at a height of 43 feet AGL; two (2) at a height of 40.5 feet AGL and three (3) at a height of 37 feet AGL. The COW will be powered by a diesel-fueled portable generator located adjacent

# Robinson+Cole

Melanie A. Bachman, Esq.  
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to the COW. Included in Attachment 2 is a Lease Exhibit showing the proposed COW and specifications for the antennas and radios that Cellco intends to use at the Property.

The proposed temporary telecommunications facility satisfies the criteria set forth in R.C.S.A. Section 16-50j-72(d), as a facility that will provide temporary wireless service for an event of State-wide significance. The COW will provide additional network capacity to accommodate increased wireless voice and data services needed during the event. Cellco expects that the COW will be brought to the site immediately prior to the start of the event and will be removed immediately after the event.

The operation of the COW will not result in a total radio frequency (RF) emissions level that exceed the Federal Communications Commission (FCC) safety standard. Included in Attachment 3 is a Far Field Approximation Table for the frequencies Cellco intends to deploy at this temporary facility. The calculation demonstrates that the temporary facility will operate well within the FCC safety standard.

Finally, in Attachment 4 is a copy of the City Assessor's parcel map including owner information for the Property. In accordance with R.C.S.A. Section 16-50j-73, a copy of this filing has been sent to Mayor Ganim, Paul Boucher and Bridgeport Music Festivals, LLC (See Attachment 5).

Based on the foregoing, Cellco respectfully requests acknowledgement of this notice for the installation of a temporary wireless facility at the Property. Please feel free to contact me if you have any questions or need any additional information.

Sincerely,



Kenneth C. Baldwin

## Attachments

### Copy to:

Joseph Ganim, Mayor  
Paul Boucher, Zoning Administrator  
Bridgeport Music Festivals, LLC  
Daniel Fitzpatrick, Verizon Wireless  
Shiva Gadasu, RF Engineer

# **ATTACHMENT 1**

**Bridgeport Music Festivals, LLC dba Sound On Sound Music Festival**  
500 Broad Street  
Bridgeport, CT 06604


**Monday, August 21, 2023**

RE: Letter of Authorization

To Whom It May Concern:

This letter of authorization, while non-binding, will serve to set forth the basic terms and conditions upon which Bridgeport Music Festivals, LLC will authorize Celco Partnership d/b/a Verizon Wireless and its authorized representatives to access the premises on a mutually agreed upon day to set up the event site with a Verizon COW. Celco Partnership d/b/a Verizon Wireless, through its designated agents, is authorized to apply for all necessary municipal, state, federal and all other permits necessary to accommodate the installation of Verizon Wireless's antennas and ancillary equipment. All details as it relates to load in, show day operations, and load out will be discussed and agreed upon separately.

Bridgeport Music Festivals, LLC Representative

By:  Signature  
Name: HOWARD S. SAFFRAN  
Title: Member  
Date: 8/22/23

# **ATTACHMENT 2**

LEASE EXHIBIT



**VICINITY MAP**  
 SCALE: N.T.S.

APPROXIMATE LATITUDE: N 41° 02' 39.54"  
 APPROXIMATE LONGITUDE: W 73° 11' 40.68"  
 COORDINATES: N 41.180924° W 73.194633°

LEASE EXHIBIT: THIS IS A DIAGRAMATIC IN NATURE AND IS NOT TO BE USED FOR ANY INFORMATION REGARDING THE LOCATION AND SIZE OF THE PROPOSED WIRELESS COMMUNICATION FACILITY. THE SITE LAYOUT WILL BE FINALIZED UPON COMPLETION OF SITE SURVEY AND FACILITY DESIGN.

NOTE: AN ANALYSIS OF THE CAPACITY OF THE PROPOSED STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY TEP NORTHEAST DATED: JULY 28, 2023 (REV.1)



CHECKED BY: JK

APPROVED BY: DPRT

**SUBMITTALS**

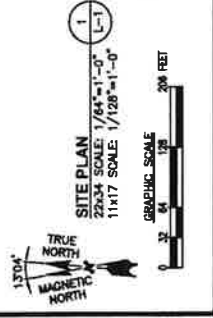
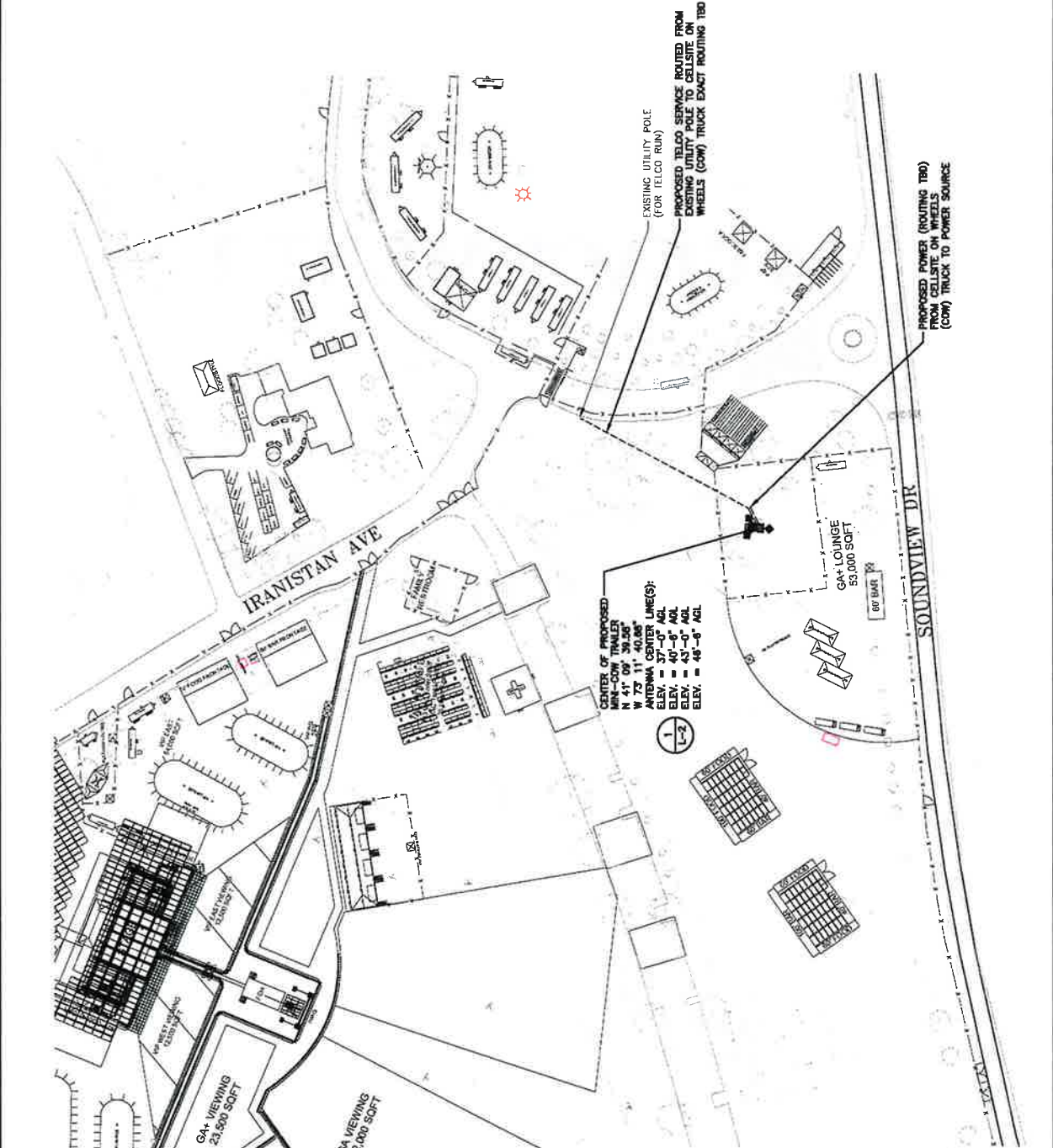
REV	DATE	DESCRIPTION
1	06/17/23	REV. CADD
2	06/17/23	REV. CADD
3	06/17/23	REV. CADD
4	06/17/23	REV. CADD
5	06/17/23	REV. CADD
6	06/17/23	REV. CADD
7	06/17/23	REV. CADD
8	06/17/23	REV. CADD
9	06/17/23	REV. CADD
10	06/17/23	REV. CADD

SITE NAME:  
**BRIDGEPORT SOUND ON SOUND**  
 CT\_COW\_2023

SITE ADDRESS:  
 350 WALDEN AVENUE  
 BRIDGEPORT, CT 06604

SHEET TITLE  
**SITE PLAN**

SHEET NUMBER  
**L-1**

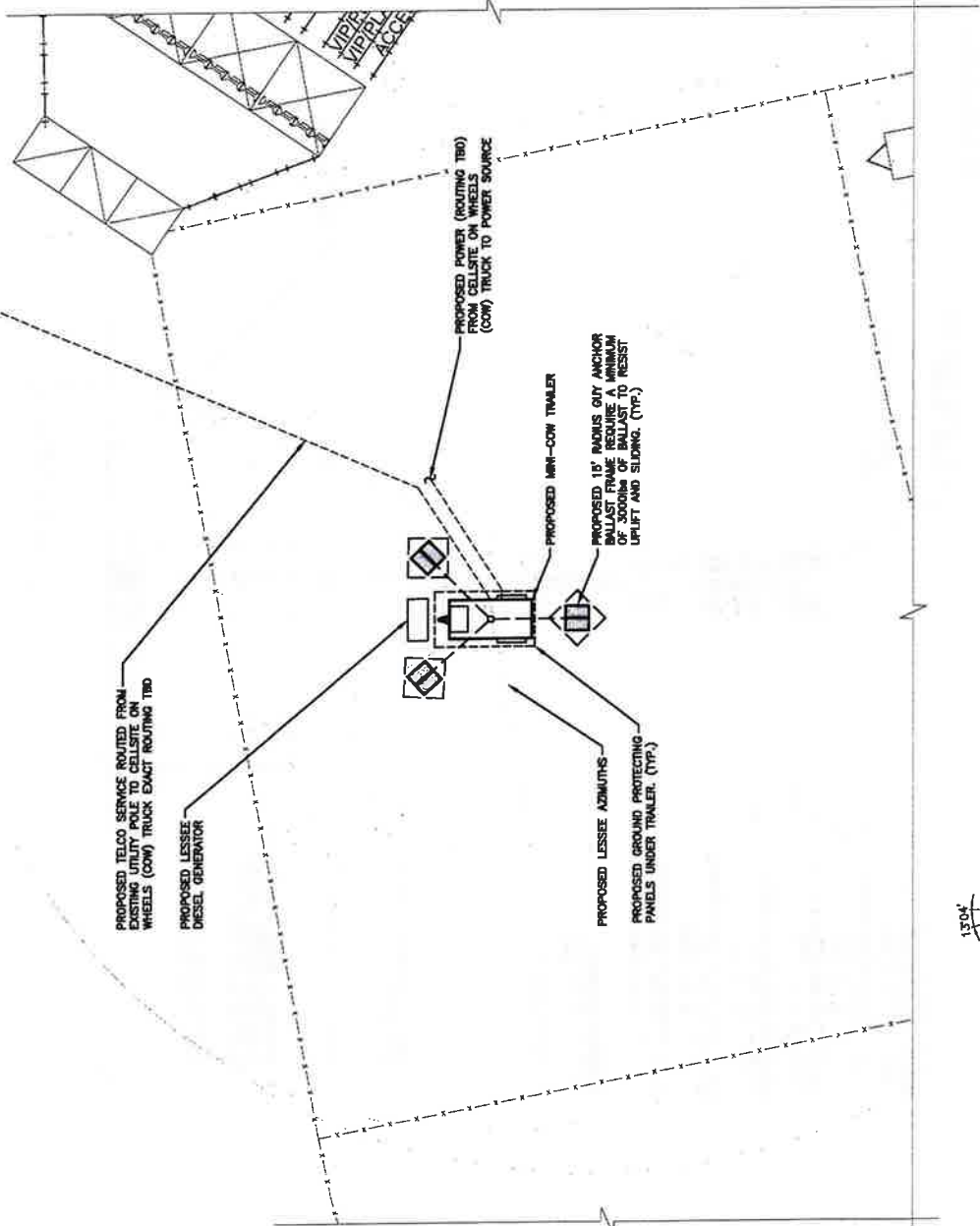


LEASE EXHIBIT

THIS LEASE PLAN IS DIAGRAMMATIC IN NATURE AND IS INTENDED TO PROVIDE GENERAL INFORMATION REGARDING THE LOCATION AND SIZE OF PROPOSED STRUCTURES. THE LEASE LAYOUT WILL BE FINALIZED UPON COMPLETION OF SITE SURVEY AND FACILITY DESIGN.

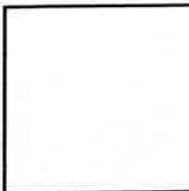
**NOTE:**  
AN ANALYSIS OF THE CAPACITY OF THE PROPOSED STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY EP NORTHSTAR.  
DATE: JULY 28, 2023 (REV.1)

LEASE EXHIBIT



ENLARGED SITE PLAN  
22x34 SCALE: 3/32"=1'-0"  
11x17 SCALE: 3/64"=1'-0"

1  
L-2



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

NO.	DATE	DESCRIPTION	BY
1	8/1/23	REV. ADDRESS	DPH
2	8/1/23	REV. ADDRESS	DPH
3	8/1/23	REV. ADDRESS	DPH
4	8/1/23	REV. ADDRESS	DPH
5	8/1/23	REV. ADDRESS	DPH
6	8/1/23	REV. ADDRESS	DPH
7	8/1/23	REV. ADDRESS	DPH
8	8/1/23	REV. ADDRESS	DPH
9	8/1/23	REV. ADDRESS	DPH

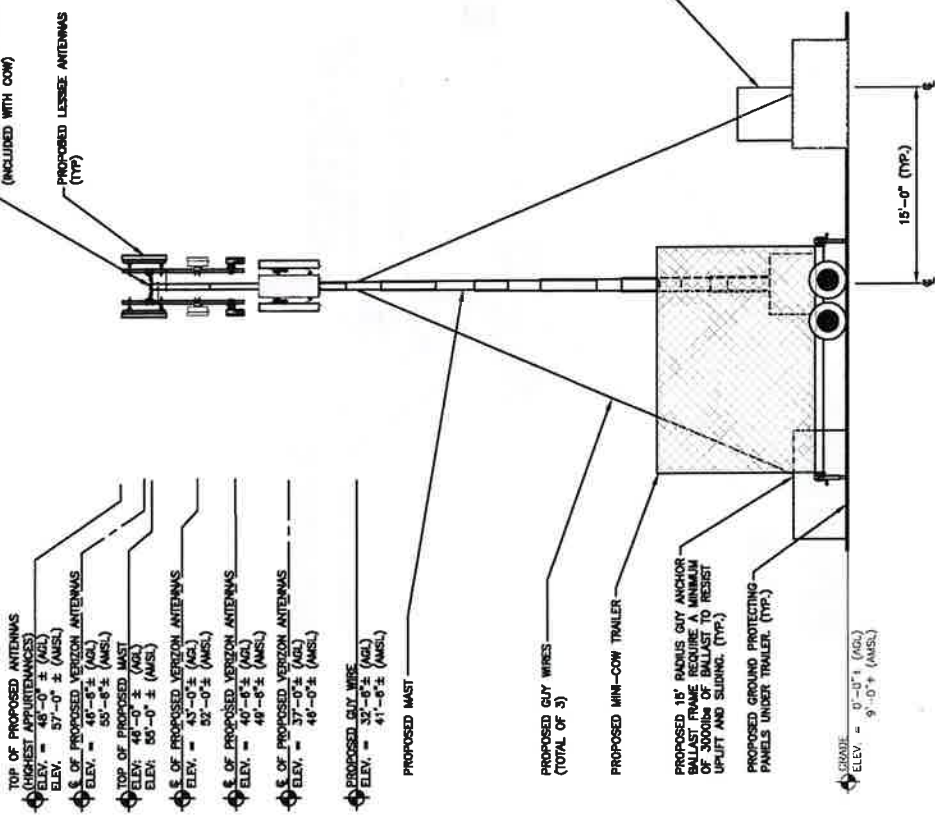
SITE NAME:  
BRIDGEPORT  
SOUND ON  
SOUND  
CT\_COW\_2023  
SITE ADDRESS:  
350 WALDENHURST AVENUE  
BRIDGEPORT, CT 06604

SHEET TITLE  
ENLARGED SITE PLAN

SHEET NUMBER  
L-2

**LEASE EXHIBIT**

**NOTE:**  
AN ANALYSIS OF THE CAPACITY OF THE PROPOSED STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY TEP NORTHEAST DATED: JULY 26, 2023 (REV.1)



- TOP OF PROPOSED ANTENNAS (HIGHEST APERTURES)
- ELEV. = 48'-0" ± (AGL)
- ELEV. = 57'-0" ± (ANSI)
- ± OF PROPOSED VERTON ANTENNAS
- ELEV. = 48'-6" ± (AGL)
- ELEV. = 55'-6" ± (ANSI)
- TOP OF PROPOSED MAST
- ELEV. = 48'-0" ± (AGL)
- ELEV. = 55'-0" ± (ANSI)
- ± OF PROPOSED VERTON ANTENNAS
- ELEV. = 43'-0" ± (AGL)
- ELEV. = 52'-0" ± (ANSI)
- ± OF PROPOSED VERTON ANTENNAS
- ELEV. = 40'-6" ± (AGL)
- ELEV. = 49'-6" ± (ANSI)
- ± OF PROPOSED VERTON ANTENNAS
- ELEV. = 37'-0" ± (AGL)
- ELEV. = 46'-0" ± (ANSI)
- PROPOSED GUY WIRE
- ELEV. = 37'-6" ± (AGL)
- ELEV. = 41'-6" ± (ANSI)
- PROPOSED MAST

ELEVATION 22534 SCALE: 1/4"=1'-0"  
11X17 SCALE: 1/8"=1'-0"

GRAPHIC SCALE  
0 2 4 6 8 10 12 FEET



CHECKED BY: JJK  
APPROVED BY: DRH

**SUBMITTALS**

REV	DATE	DESCRIPTION	BY
1	06/15/23	REV ADDRESS	DR
2	06/15/23	REV ADDRESS	DR
3	06/15/23	REV ADDRESS	DR
4	06/15/23	REV ADDRESS	DR
5	06/15/23	REV ADDRESS	DR
6	06/15/23	REV ADDRESS	DR
7	06/15/23	REV ADDRESS	DR
8	06/15/23	REV ADDRESS	DR
9	06/15/23	REV ADDRESS	DR
10	06/15/23	REV ADDRESS	DR

**SITE NAME:**  
BRIDGEPORT  
SOUND ON  
SOUND  
CT\_COW\_2023

**SITE ADDRESS:**  
350 WALDENHURST AVENUE  
BRIDGEPORT, CT 06604

**SHEET TITLE:**  
ELEVATION &  
ANTENNA PLAN

**SHEET NUMBER:**  
L-3



# NHH-45A-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 45° HPBW, 2x RETs and 2x SBTs. Both high bands share the same electrical tilt.

- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Narrow beamwidth capacity antenna for higher level of densification and enhanced data throughput
- One LB RET and one HB RET. Both high bands are controlled by one RET to ensure same tilt level for 4x Rx or 4x MIMO
- Separate RS-485 RET input/output for low and high band

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light Gray (RAL 7035)
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Copper   Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

<b>RET Hardware</b>	CommRET v2
<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 3

# NHH-45A-R2B

<b>Internal RET</b>	High band (1)   Low band (1)
<b>Power Consumption, active state, maximum</b>	10 W
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Protocol</b>	3GPP/AISG 2.0 (Single RET)

## Dimensions

<b>Width</b>	457 mm   17.992 in
<b>Depth</b>	178 mm   7.008 in
<b>Length</b>	1220 mm   48.032 in
<b>Net Weight, antenna only</b>	21 kg   46.297 lb

## Array Layout

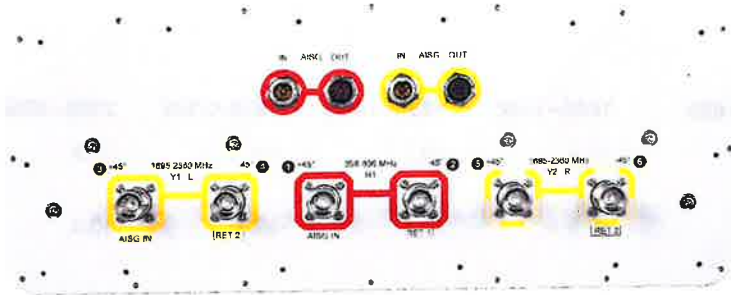


Array ID	Frequency (MHz)	RF Connector	RET (SRET)	AISG No.	AISG RET UID
R1	698-896	1 - 2	1	AISG1	CPxxxxxxxxxxxxxxxxR1
Y1	1695-2360	3 - 4	2	AISG2	CPxxxxxxxxxxxxxxxxY1
Y2	1695-2360	5 - 6			

(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration

# NHH-45A-R2B



## Electrical Specifications

<b>Impedance</b>	50 ohm
<b>Operating Frequency Band</b>	1695 – 2360 MHz   698 – 896 MHz
<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	800 W @ 50 °C

## Electrical Specifications

	R1	R1	Y1-Y2	Y1-Y2	Y1-Y2	Y1-Y2
Frequency Band, MHz	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>RF Port</b>	1-2	1-2	3-6	3-6	3-6	3-6
<b>Gain, dBi</b>	15.5	16.2	18.3	19	19.2	20
<b>Beamwidth, Horizontal, degrees</b>	48	44	44	44	43	39
<b>Beamwidth, Vertical, degrees</b>	18.5	16.8	7.9	7.3	6.8	6
<b>Beam Tilt, degrees</b>	2–18	2–18	1–9	1–9	1–9	1–9
<b>USLS (First Lobe), dB</b>	16	17	17	16	15	15
<b>Front-to-Back Ratio at 180°, dB</b>	32	33	36	36	36	35
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25

# NHH-45A-R2B

<b>Isolation, Inter-band, dB</b>	25	25	25	25	25	25
<b>VSWR   Return loss, dB</b>	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	250	250	250	200

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain by all Beam Tilts, average, dBi</b>	15.1	15.9	17.9	18.7	19	19.8
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.5	±0.4	±0.6	±0.4	±0.3	±0.4
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2	±3	±2	±1	±2	±2
<b>Beamwidth, Vertical Tolerance, degrees</b>	±1	±0.9	±0.3	±0.3	±0.5	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	17	22	12	13	14	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	24	24	27	29	30	30
<b>CPR at Boresight, dB</b>	24	25	15	18	19	20
<b>CPR at Sector, dB</b>	18	17	11	13	15	16

## Mechanical Specifications

<b>Wind Loading @ Velocity, frontal</b>	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	135.0 N @ 150 km/h (30.3 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	677.0 N @ 150 km/h (152.2 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	595.0 N @ 150 km/h (133.8 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h   149.75 mph

## Packaging and Weights

<b>Width, packed</b>	563 mm   22.165 in
<b>Depth, packed</b>	355 mm   13.976 in
<b>Length, packed</b>	1393 mm   54.843 in
<b>Weight, gross</b>	32.1 kg   70.768 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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# NHH-45A-R2B

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CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



## Included Products

BSAMNT-3	- Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# BSAMNT-3



Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

## Product Classification

**Product Type** Downtilt mounting kit

## General Specifications

**Application** Outdoor

**Color** Silver

## Dimensions

**Compatible Diameter, maximum** 115 mm | 4.528 in

**Compatible Diameter, minimum** 60 mm | 2.362 in

**Weight, net** 6.2 kg | 13.669 lb

## Material Specifications

**Material Type** Galvanized steel

## Packaging and Weights

**Included** Brackets | Hardware

**Packaging quantity** 1

**Weight, gross** 6.4 kg | 14.11 lb

## Regulatory Compliance/Certifications

Agency	Classification
CE	Compliant with the relevant CE product directives
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

# BSAMNT-3

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**SAMSUNG**

**SAMSUNG**

## Compact Macro (AT1K04) (Formally known as AU)

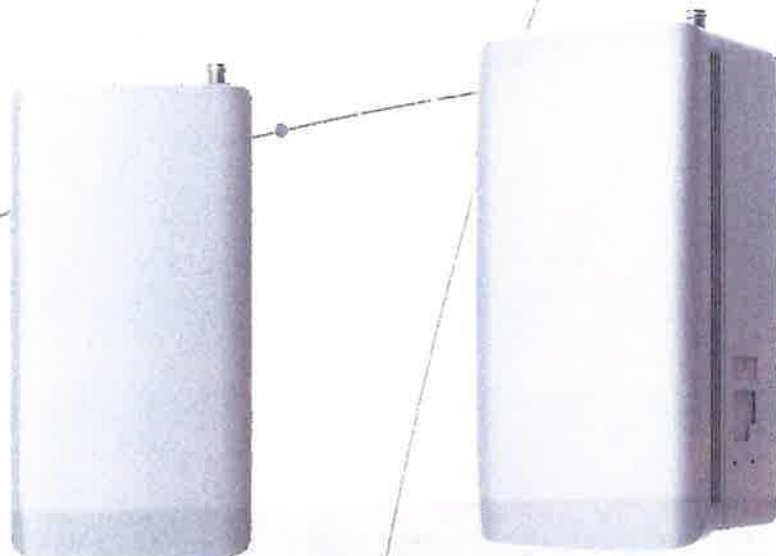
Introducing the best use of mmWave spectrum

Data traffic continues to increase exponentially across the globe.

As a result, operators are faced with a great challenge of ever growing demands for data usage.

Samsung mmWave Compact Macro is an optimized solution for operators to increase data capacity and data speeds by using carrier aggregation of mmWave spectrum.

**Model Code :** AT1K04-B10 (DC), AT1K04-B00 (AC)





## Points of Differentiation

### Wide Bandwidth

Samsung Compact Macro products support up to 800 MHz mmWave bandwidth, enabling operators to use up to 8CC carrier aggregation.

Network capacity and data rates are greatly increased using mmWave for mobile communications, as it has at least 8 times higher bandwidth than below 6GHz systems.



### Easy installation

Samsung Compact Macro is the most compact mmWave all-in-one (RU+DU) on the market, with a volume of 18.2L and weighing only about 32lbs.

Compact Macro products are convection cooled, and have innovative mounting brackets that enable mounting using a simple Clip-On method. This mounting system enables a single worker to install this product on a wall, pole, or tower. In addition, installation of 2 or 3 products in Back-to-Back or Side-by-Side configurations is easy, helping operators more effectively utilize their installation space.

Light  
Weight



Clip-on  
Mounting



### 5G Compact Macro Advantage

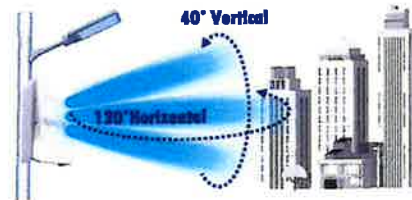
Compact Macro implements an optimal split of RAN functionality between cell site and Data Center, resulting in a cost efficient Ethernet mid-haul. A Centralized Data Center can handle a large number of cell sites within hundreds of kilometers.

Virtualized and centralized RAN supports Data center-friendly and flexible vRAN architecture, high reliability (VM redundancy, Geo redundancy), QoS optimized for FWA service and Mobility performance improvement



### Beamforming suitable for high-rise

Samsung Compact Macro precision beams have as narrow as 8 degree beam width, providing less susceptibility to interference. Samsung Compact Macro supports a wider scan range than other products, including 120 degree horizontal scan, 40 degree vertical coverage range ensures excellent coverage of high-rise buildings.



## Technical Specifications

Item	Specification
Tech	5G NR
Band	n261
Frequency Band	27.5-28.35GHz
ERP	60dBm/Unit
BEW/OBW	850MHz/800MHz
Installation	Pole/Wall/Tower
Size/ Weight	9.56(W)x16.8(H)x6.88(D)inches, 18.6L/ 32lbs

# SAMSUNG

## **About Samsung Electronics Co., Ltd.**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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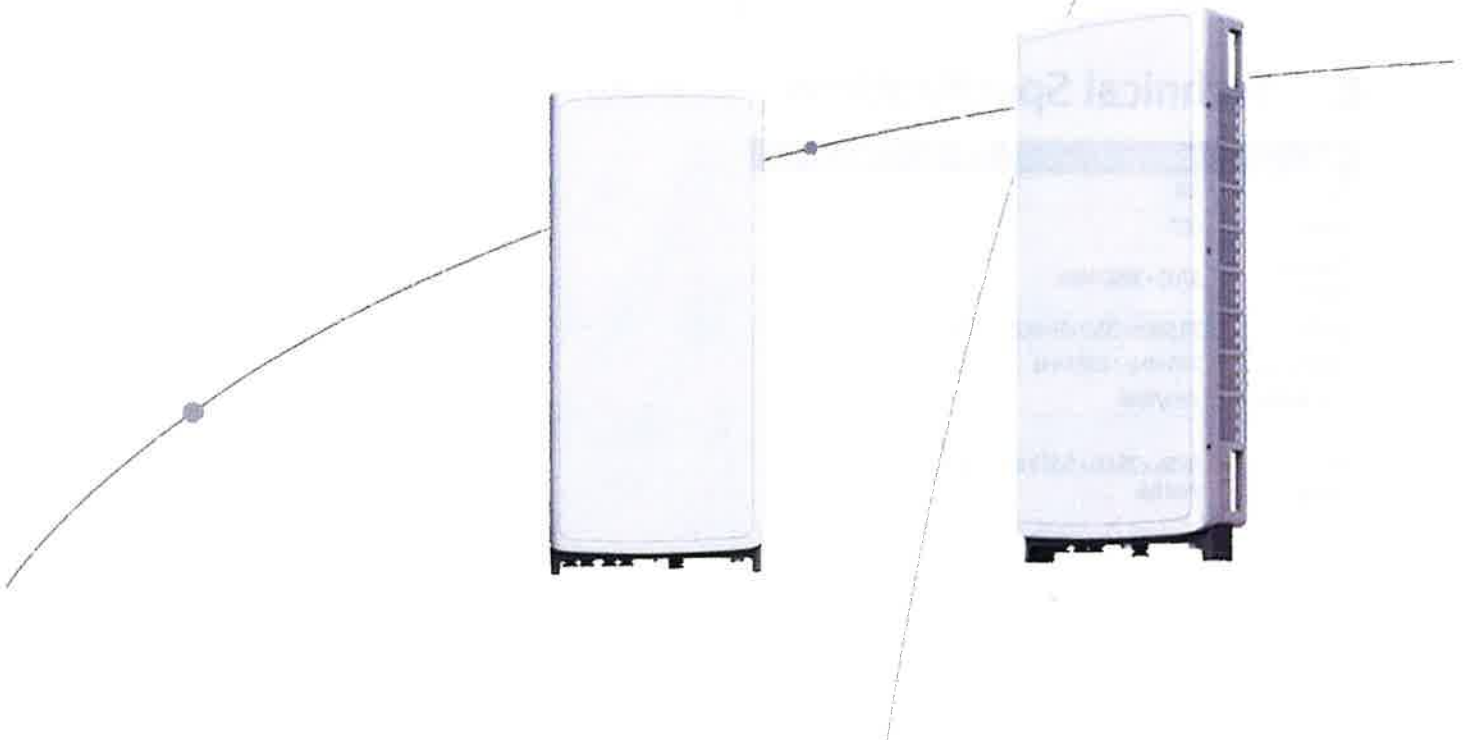
**SAMSUNG**

# **SAMSUNG** C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

**Model Code:** MT6407-77A

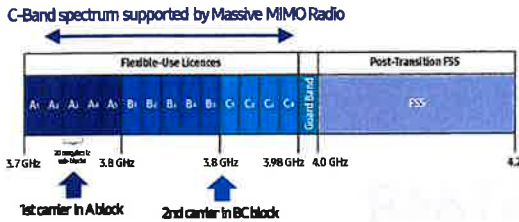


# Points of Differentiation

## Wide Bandwidth

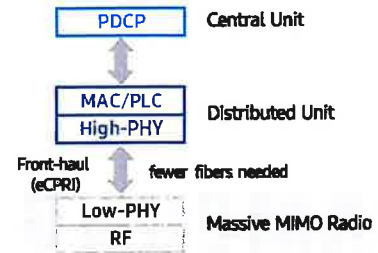
With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks



## Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface. It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.



## Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

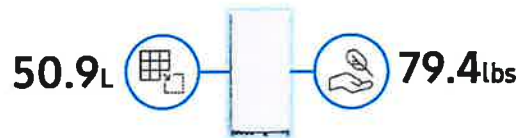
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



## Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



# Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs

# SAMSUNG

## **About Samsung Electronics Co., Ltd.**

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

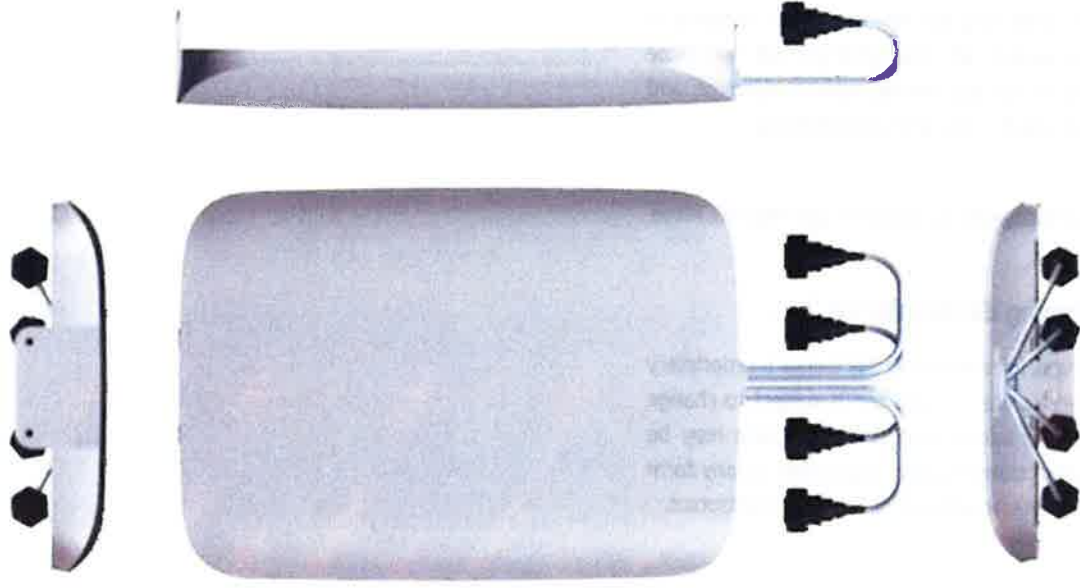
129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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# [CBRS] Clip-on Antenna Specifications

Vzw accepted IP45 in FLD, but IP55 is Samsung Spec.



Items	Clip-on Antenna, BASTA**
Antenna Gain	12.5 ± 0.5 dBi (Max 13 dBi)
Horizontal BW (-3dB)	65° ± 5°
Vertical BW (-3dB)	17° ± 3°
Electrical Tilt	8° (fixed) ± 2°
Front-to-Back Ratio	> 25 dB
Port-to-Port Tracking	< 3 dB
VSWR	< 1.5
Isolation	> 25 dB
Ingress Protection	IP55
Size	220(W) × 313(H) × 34.3(D) mm (*) (8.7 × 12.3 × 1.4 inch.)
Weight	< 2.0 kg [Typ. 1.3 kg]
It is required that the radio should be weatherproofed properly with JMA WPS Boot with external antenna or with Weatherproof Boot for clip-on antennas.	

Antenna includes integrated cable with connector

\* Design is subject to minor change

\*\* Ant. spec. follows NGMN recommendations on Base Station Antenna Standards (BASTA). For example, mean ± tolerance of 86.6% is applied to double-sided specification of statistical RF parameters.

# SAMSUNG

## AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage  
[samsungnetworks.com](http://samsungnetworks.com)

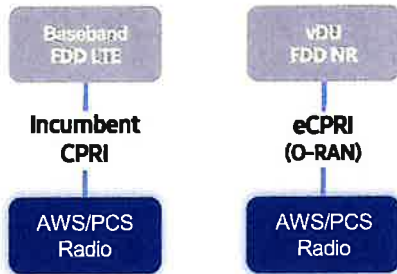


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

# Points of Differentiation

## Continuous Migration

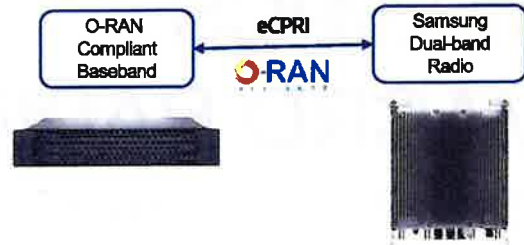
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



## O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

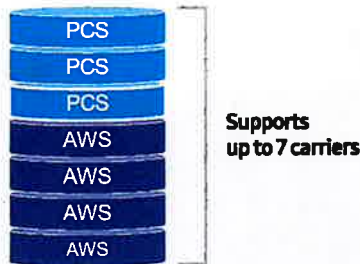
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



## Optimum Spectrum Utilization

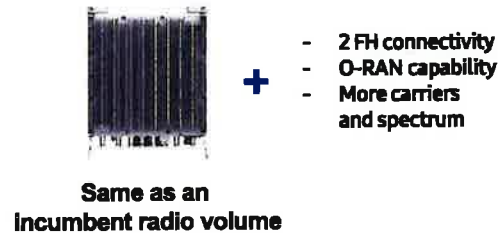
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



## Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



# Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 × 14.96 × 10.04inch (36.8L) / 74.7lb



# SAMSUNG

## 700/850MHZ MACRO RADIO

### DUAL-BAND AND HIGH POWER FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage  
[samsungnetworks.com](http://samsungnetworks.com)

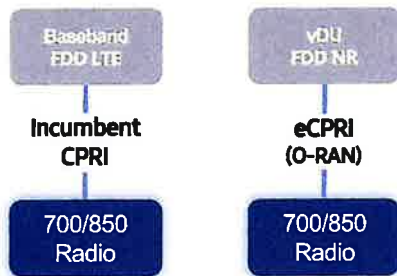


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

# Points of Differentiation

## Continuous Migration

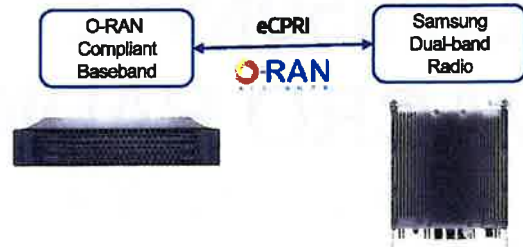
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



## O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



## Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

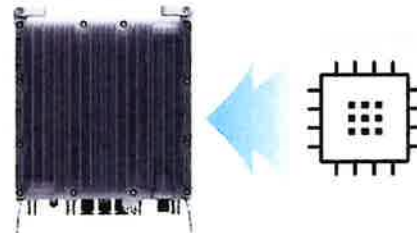
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



## Secured Integrity

Access to sensitive data is allowed only to authorized software.

The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



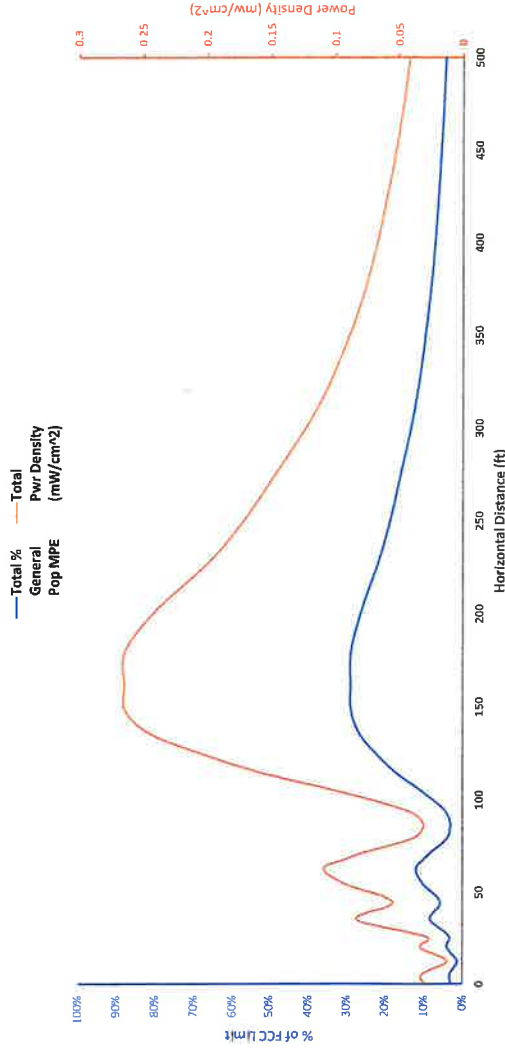
# Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

# **ATTACHMENT 3**

Band	28GHz	C-Band	CBRS	AWS	PCS	850-LTE	700	
Operating Frequency (MHz)	27,500	3,700	3,650	2,145	1,970	860	746	
General Population MPE (mW/cm <sup>2</sup> )	1	1	1	1	1	0.586868667	0.487333333	
ERP Per Transmitter (Watts)	153	13,335	56	916	807	1,035	819	
Number of Transmitters	4	2	4	4	4	2	2	
Antenna Centerline (feet)	43	46.5	40.5	37	37	37	37	
Total ERP (Watts)	612	26,670	222	3,665	3,227	2,070	1,638	
Total ERP (dBm)	58	74	53	66	65	63	62	
Maximum % of General Population Limit								28.3%

### Far Field Calculations (per FCC OET65)



Angle Below Horizon	Percent of General Population MPE										Distance	Total % General Pop MPE		
	800 MHz	C-Band	CBRS	AWS	PCS	Cellular	CDMA	700 MHz	700 MHz	700 MHz				
90	0.00049041	0.028904379	2.43797E-05	7.28082E-06	2.06053E-06	0.00046837	0.000125415	0.01%	0.01%	0.08%	0.00%	0.03%	0.03858393	3.01%
89	0.000156037	0.028900019	2.93071E-05	1.31543E-05	3.57987E-07	0.000498928	0.000109961	0.00%	0.00%	0.09%	0.00%	0.03%	0.039707051	3.02%
88	0.000161805	0.02959798	3.1381E-05	1.2416E-05	1.71608E-06	0.000579031	9.56978E-05	0.00%	0.00%	0.10%	0.00%	0.03%	0.039466671	3.10%
87	0.000166187	0.029594832	3.4378E-05	5.9865E-05	6.59131E-06	0.000587294	8.45946E-05	0.00%	0.00%	0.12%	0.00%	0.02%	0.03897287	3.16%
86	0.000168674	0.030613523	3.76341E-05	8.94106E-05	1.30673E-05	0.000694189	7.54325E-05	0.00%	0.01%	0.09%	0.00%	0.02%	0.038601931	3.26%
85	0.000169076	0.030571772	4.1266E-05	0.000106989	2.00629E-05	0.000694848	6.52457E-05	0.00%	0.01%	0.08%	0.00%	0.01%	0.03824444	3.34%
84	0.000169005	0.03131608	5.1738E-05	0.00010331	3.1113E-05	0.000993375	5.26397E-05	0.00%	0.02%	0.17%	0.00%	0.01%	0.037639684	3.34%
83	0.000161971	0.03169756	6.03131E-05	8.0238E-05	4.9744E-05	0.00103191	3.79184E-05	0.00%	0.03%	0.18%	0.00%	0.01%	0.036939986	3.34%
82	0.000143182	0.03107151	0.00010028	5.21183E-05	7.2409E-05	0.001027819	3.22929E-05	0.00%	0.04%	0.16%	0.00%	0.00%	0.03615789	3.33%
81	0.000128657	0.030222358	0.000108096	4.48926E-05	5.01294E-05	0.000996919	2.86099E-05	0.00%	0.05%	0.15%	0.00%	0.00%	0.03531895	3.33%
80	0.000126671	0.029483511	0.00012649	4.52405E-05	4.93924E-05	0.000949883	1.44573E-05	0.00%	0.06%	0.15%	0.00%	0.00%	0.03462678	3.33%
79	0.000144151	0.028602649	0.00013649	5.00926E-05	4.52405E-05	0.000909510	3.31951E-05	0.00%	0.07%	0.15%	0.00%	0.00%	0.033983881	3.15%
78	0.0001621	0.02804509	0.00014026	5.10939E-05	0.000120977	0.000895105	3.009595759	0.00%	0.08%	0.15%	0.00%	0.00%	0.03324422	3.15%
77	0.000179298	0.02762559	0.000149026	4.57134E-05	0.00014023	0.000895159	5.57459E-05	0.00%	0.09%	0.15%	0.00%	0.00%	0.03254678	3.02%
76	0.000195069	0.027033947	0.000157177	3.31849E-05	0.000167394	0.000937368	8.05592E-05	0.00%	0.10%	0.16%	0.00%	0.00%	0.031840083	2.84%
75	0.000207787	0.026097523	0.000166048	2.09216E-05	0.000215473	0.000958289	0.000106524	0.00%	0.11%	0.16%	0.00%	0.00%	0.03113447	2.73%
74	0.000227439	0.025073233	0.000175201	1.36145E-05	0.000306055	0.001037458	0.000147289	0.00%	0.12%	0.18%	0.00%	0.00%	0.03068571	2.58%
73	0.000248706	0.01566147	0.00018387	1.35256E-05	0.000454942	0.001084242	0.000282006	0.00%	0.13%	0.18%	0.00%	0.00%	0.030206978	2.39%
72	0.000265706	0.013097428	0.000192525	7.1778E-05	0.000657443	0.00111437	0.000333602	0.00%	0.14%	0.19%	0.00%	0.00%	0.029811343	2.20%
71	0.000284686	0.0110715643	0.000201236	3.4177E-05	0.000894669	0.00111177	0.000467599	0.00%	0.15%	0.19%	0.00%	0.00%	0.029424422	2.06%
70	0.000304357	0.009149665	0.000210031	3.99105E-05	0.001158473	0.00110932	0.000562445	0.00%	0.16%	0.19%	0.00%	0.00%	0.029058728	1.97%
69	0.000324966	0.00754475	0.000218846	3.9887E-05	0.00142336	0.001086859	0.000686321	0.00%	0.17%	0.19%	0.00%	0.00%	0.028704744	1.83%
68	0.000345666	0.006184049	0.000227666	1.38651E-05	0.001690005	0.001066642	0.001072059	0.00%	0.18%	0.19%	0.00%	0.00%	0.028354475	1.71%
67	0.000366404	0.00519034	0.000236566	5.08884E-06	0.00181726	0.001060689	0.001339022	0.00%	0.19%	0.18%	0.00%	0.00%	0.028016649	1.50%

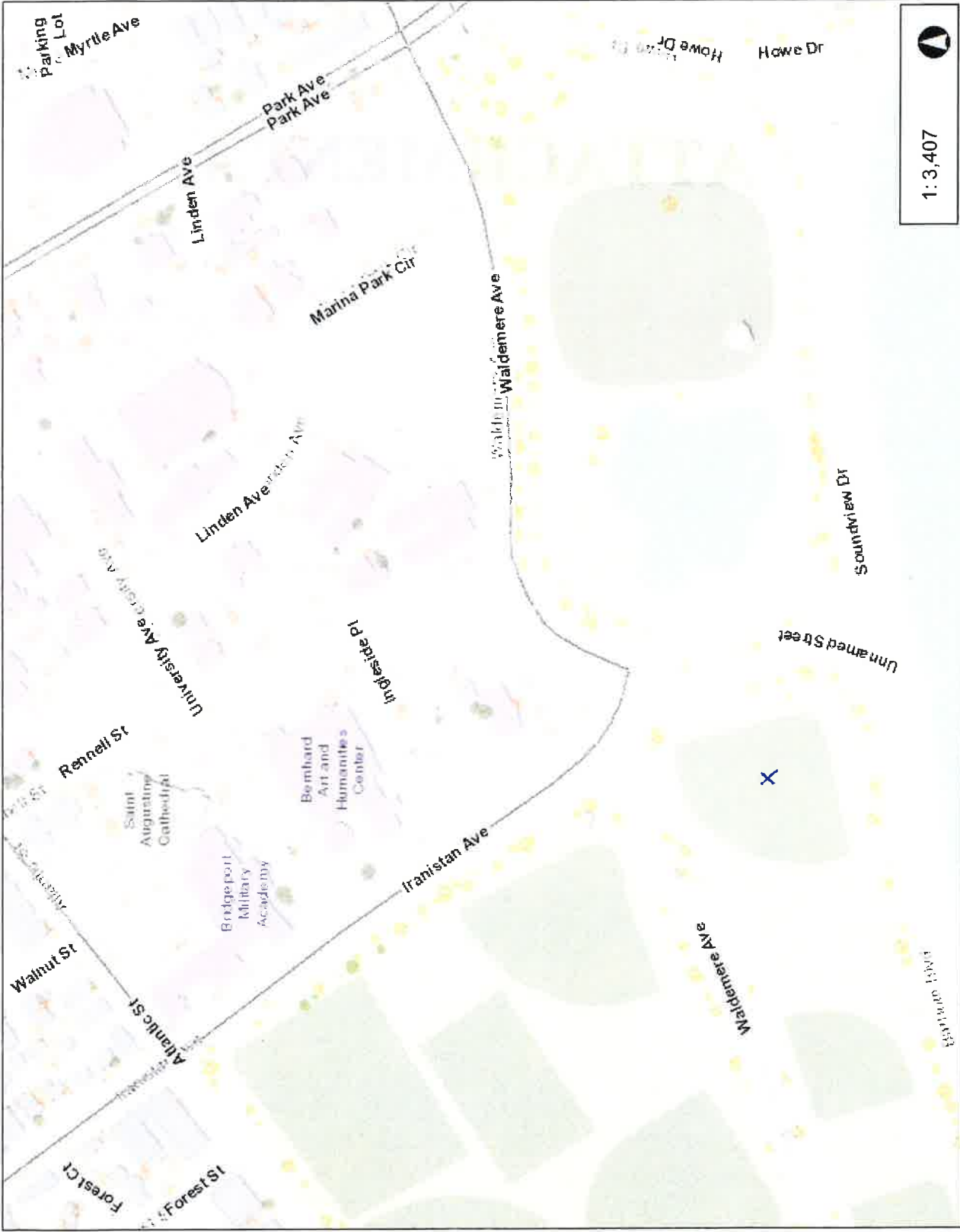


# **ATTACHMENT 4**



# City of Bridgeport

# My Map



### Legend

- Streetname
- Roadways
  - Local
  - Collector
  - Minor Collector
  - Minor Arterial
  - Major Collector
  - PA Other
  - PA Other Expwy
  - PA Interstate

1:3,407



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.  
 THIS MAP IS NOT TO BE USED FOR NAVIGATION



CURRENT OWNER	TOPO	UTILITIES	STRT / ROAD	LOCATION	CURRENT ASSESSMENT
BRIDGEPORT CITY OF PARK DEPT					Code 21 Assessed 841,580 Ex Com Ln 1,202,250 Ex C Outb 57,220
EXEMPT PARCEL N/A		<b>SUPPLEMENTAL DATA</b>			Code 25 Assessed 40,050
BRIDGEPORT CT 00000	AIT Prcl ID 0422-01	Heart Abstract Freeze	Special Dis		
	Census Tr CEN704				
	500:500				
	GIS ID 422-1		Assoc Pld#		

RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	Q/U	V/I	SALE PRICE	VC
BRIDGEPORT CITY OF PARK DEPT		0000	0000			0	

EXEMPTIONS		Amount	Description	Number	Amount
Year	Code				
2015	BAAX	721,350.00			
Total		721,350.00			

ASSESSING NEIGHBORHOOD		Nbhd Name	Tracing	Batch
Nbhd		B		
MIC				

NOTES	
Appraised Bldg. Value (Card) 0	
Appraised Xf (B) Value (Bldg) 0	
Appraised Ob (B) Value (Bldg) 57,220	
Appraised Land Value (Bldg) 1,202,250	
Special Land Value 0	
Total Appraised Parcel Value 1,259,470	
Valuation Method C	

BUILDING PERMIT RECORD		Amount	Insp Date	% Comp	Date Comp	Comments
Permit Id	Issue Date					
6379-2022-1220	09-22-2022	265,000	10-01-2022	100	10-01-2022	FENCE/STAGE
-1120	03-13-2020	30,000		0		BATHROOM STALLS
-353589	03-13-2020	30,000		0		BATHROOM STALLS
4954	06-07-2018	20,000	07-18-2018			For Meter and Panel at Bands
4414	10-02-2013	10,000	10-03-2013			SHED
	11-21-2012	18,600	05-28-2013			ROOFS FOR DUGOUTS

LAND LINE VALUATION SECTION		Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj	Notes	Location Adjustment	Adj Unit P	Land Value
B Use Code	Description										
1	Mun Recr Land	250,000.00	1.00000	0	1.50	MIC	1.400	WTRFRNT	1.0000	525,000	1,202,250
Total Card Land Units 2.290 AC											
Parcel Total Land Area 2.2900											
Total Land Value 1,202,250											

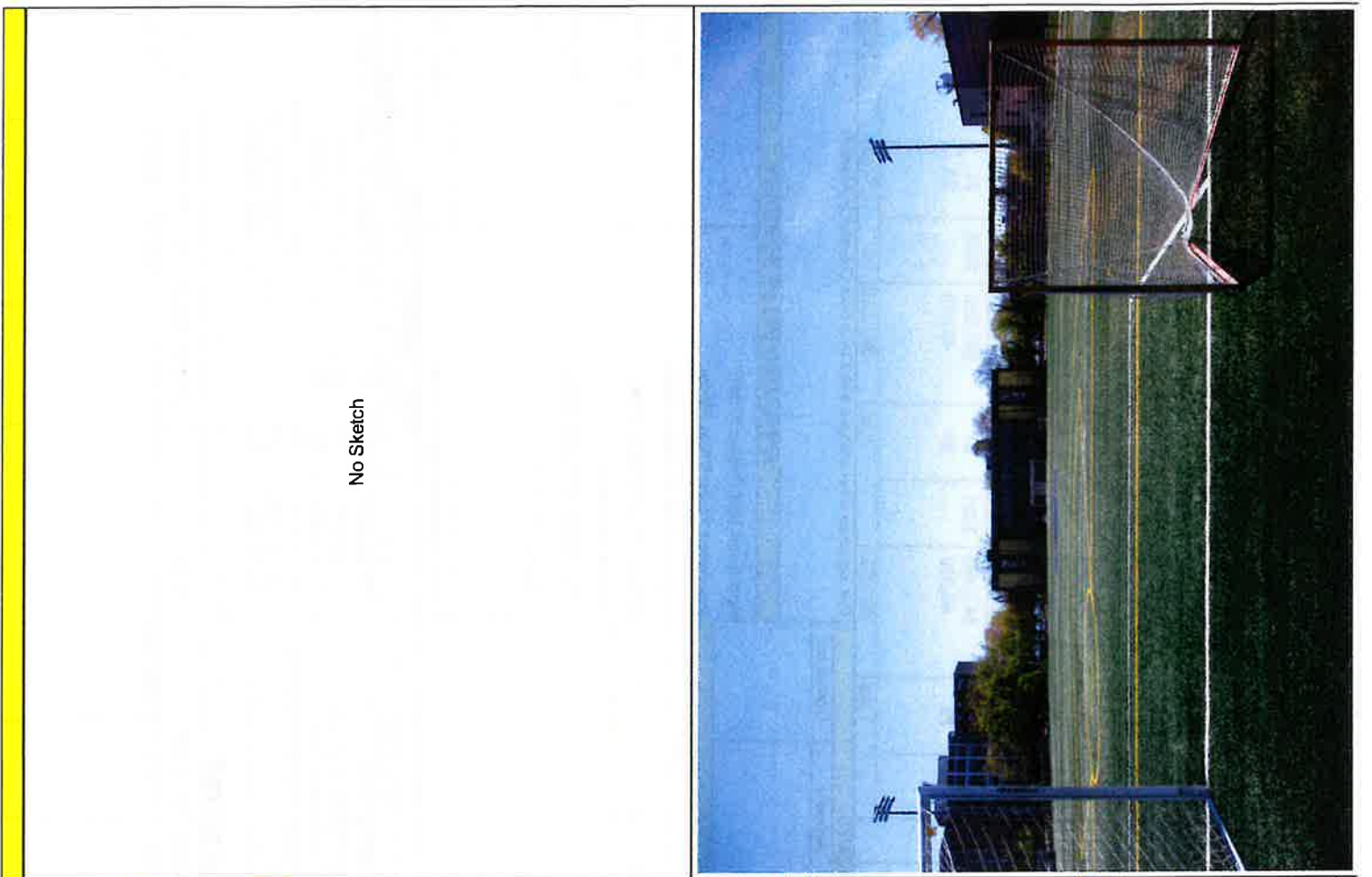
This signature acknowledges a visit by a Data Collector or Assessor

**APPRAISED VALUE SUMMARY**

**VISIT / CHANGE HISTORY**

**LAND LINE VALUATION SECTION**








CONSTRUCTION DETAIL		CONSTRUCTION DETAIL (CONTINUED)								
Element	Description	Element	Description							
99 00	Vacant Land Vacant									
<b>CONDO DATA</b>										
Parcel Id	C	Owne								
Adjust Type	Code	Description	Factor%							
Condo Fir		B	S							
Condo Unit										
<b>COST / MARKET VALUATION</b>										
Building Value New										
Year Built			1.000							
Effective Year Built										
Depreciation Code										
Remodel Rating										
Year Remodeled										
Depreciation %										
Functional Obsol										
External Obsolescence										
Trend Factor										
Condition										
Condition %										
Percent Good										
RCNLD										
Dep % Ovr										
Dep Ovr Comment										
Misc Imp Ovr										
Misc Imp Ovr Comment										
Cost to Cure Ovr										
Cost to Cure Ovr Comment										
<b>OB - OUTBUILDING &amp; YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)</b>										
Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Gd	Grade	Grade Adj.	Appr. Value
CAN	Canopy	L	3,400	18.70	E	90	3	1.00		57,220
<b>BUILDING SUB-AREA SUMMARY SECTION</b>										
Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value				
Ttl Gross Liv / Lease Area						0				

# **ATTACHMENT 5**



Certificate of Mailing — Firm

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  3	TOTAL NO. of Pieces Received at Post Office™  3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>	
	Postmaster, per (name of receiving employee)  <i>[Handwritten Signature]</i>		  ZIP 06103 041L12203937	

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Joseph Ganim, Mayor City of Bridgeport 999 Broad Street Bridgeport, CT 06604				
2.	Paul Boucher, Zoning Administrator City of Bridgeport 45 Lyon Terrace Bridgeport, CT 06604				
3.	Bridgeport Music Festivals, LLC 500 Broad Street Bridgeport, CT 06604				
4.					
5.					
6.					