STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE:	:	
	:	
A PETITION OF CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS FOR A DECLARATORY RULING ON THE NEED TO OBTAIN A SITING COUNCIL CERTIFICATE FOR THE INSTALLATION OF A SMALL CELL TELECOMMUNICATIONS FACILITY AT 303 MIDDLE ROAD, FARMINGTON, CONNECTICUT	:	PETITION NO. ____
	:	AUGUST 17, 2015

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 no Certificate of Environmental Compatibility and Public Need ("Certificate") is required under Section 16-50k(a) of the Connecticut General Statutes ("C.G.S.") to install a new "small cell" telecommunications tower on the roof of the building at 303 Middle Road in Farmington, Connecticut (the "Property"). The Property is owned by the Passionist Fathers of Connecticut, Inc. ("PFC"). Cellco has designated this site as its "West Hartford SC3 Facility".

II. Factual Background

The Property is a 17.4-acre parcel in Farmington's R-20 (Residential) zone district and is surrounded by residential uses in Farmington and West Hartford. (*See* Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph)). Cellco is licensed to provide wireless

telecommunications services in the 850 MHz, 1900 MHz, 700 MHz and 2100 MHz frequency ranges throughout the State of Connecticut. Initially, the proposed West Hartford SC3 Facility is proposed to provide wireless service in Cellco's 2100 MHz frequency range only. The West Hartford SC3 Facility will provide coverage to existing 2100 MHz service gaps in portions of Farmington and West Hartford and capacity relief to Cellco's network in portions of Farmington, West Hartford and Newington.

III. Proposed "Small Cell" Facility

The proposed West Hartford SC3 Facility would consist of a small tower attached to the roof of the existing building. The tower would support a single, canister-type "small cell" antenna and Remote Radio Head (RRH). The tower, antenna and RRH would be concealed inside an RF transparent faux chimney designed to match the brick on the existing building. The chimney will extend approximately 9' above the height of the building's existing mechanical penthouse, to an overall height of 54.4' above ground level. Radio equipment cabinets associated with the small cell antenna will be located on an 8' by 8' platform also located on the roof of the building adjacent to the existing penthouse. The platform and equipment cabinets will be surrounded by a screen wall extending approximately seven (7) feet above the existing roof. Like the faux chimney, the equipment screen wall will maintain a brick-like finish to match the brick of the existing building. Project Plans for the proposed West Hartford SC3 Facility are included in Attachment 2. Specifications for Cellco's "small cell" 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 cell" antenna and RRH on a small tower and radio equipment on the roof of the building, will not involve a significant alteration in the physical and environmental characteristics of the Property. There will be no ground disturbance, of any kind, on the Property.

2. Visual Effects

The visibility of the proposed "small cell" installation would be limited to locations on the Property and immediately west along Tunxis Road (Middle Road). The planned concealment structures (chimney and equipment screening) will screen all small cell equipment and will appear as original design elements of the building. Cellco does not, therefore, expect that views of the small cell installation will have any adverse impact on aesthetics in the area. *See* Limited Visual Assessment and Photo-Simulations included in Attachment 4.

3. FCC Compliance

Radio frequency ("RF") emissions from the proposed installation will be far below the standards adopted by the Federal Communications Commission ("FCC"). Included in Attachment 5 is a General Power Density table including a worst-case calculation of RF emissions from the proposed facility. This calculation demonstrates that the proposed "small

cell" facility will operate well within the RF emission standards adopted by the FCC.

4. FAA Summary Report

Included in Attachment 6 is a Federal Airways & Airspace Summary Report verifying that the small cell facility tower and concealment structure at the Property would not constitute an obstruction or hazard to air navigation and that notification to the FAA is not required.

B. Notice to Town, Property Owner and Abutting Landowners

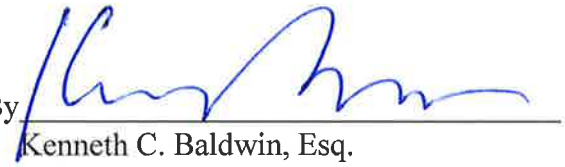
On August 17, 2015, a copy of this Petition was sent to Farmington's Town Manager Kathleen A. Eagen, West Hartford's Mayor Scott Slifka, and the Passionist Fathers of Connecticut, Inc., the owner of the Property. Included in Attachment 7 are copies of the letters sent to Ms. Eagen, Mayor Slifka and the Passionist Fathers of Connecticut, Inc.. A copy of this Petition was also sent to the owners of land that abuts the Property. A sample abutter's letter and the list of those abutting landowners who were sent copies of the Petition are included in Attachment 8.

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 concealed "small cell" tower and related appurtenances on the roof of the building at the Property 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.

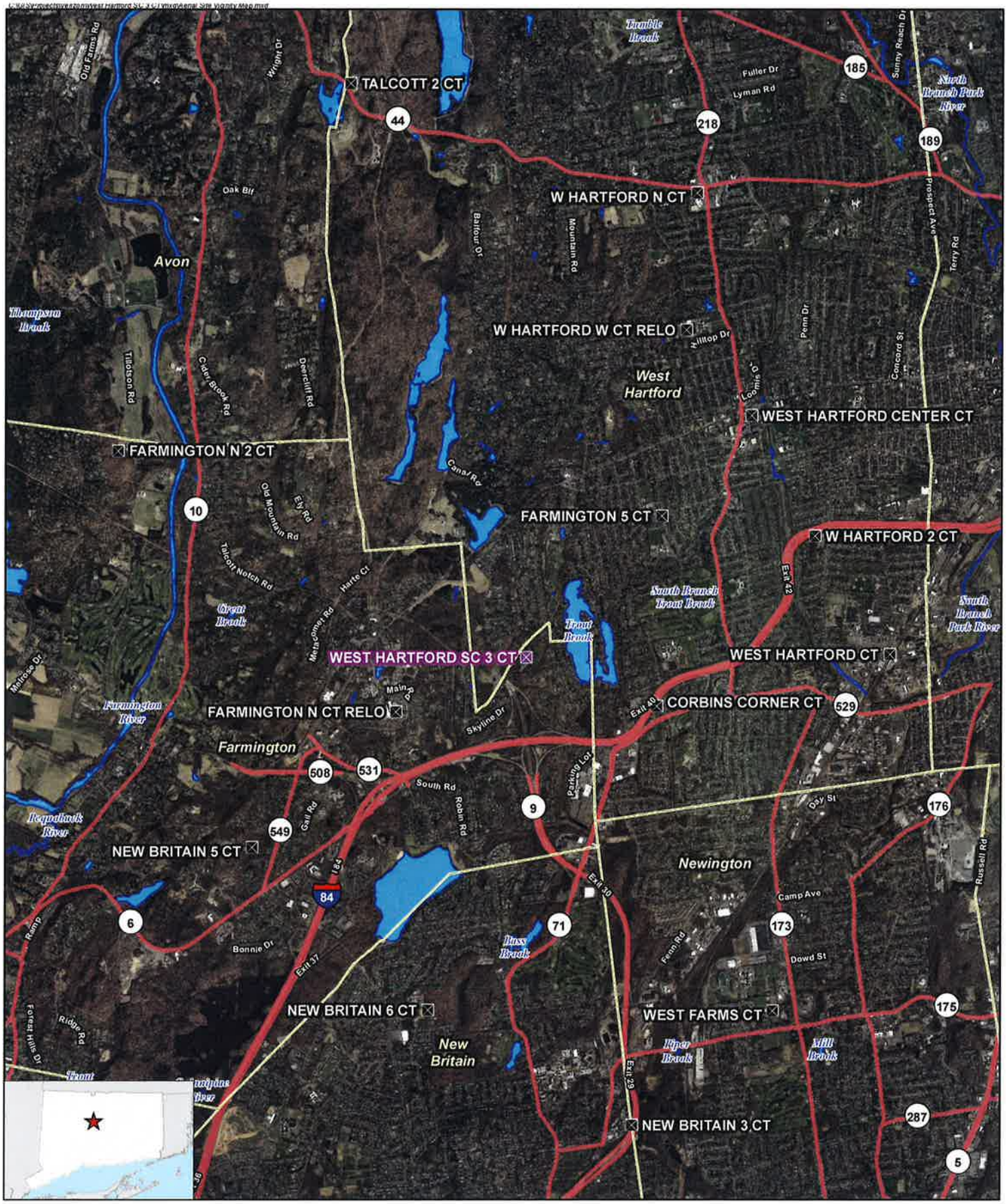
Respectfully submitted,

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



Legend

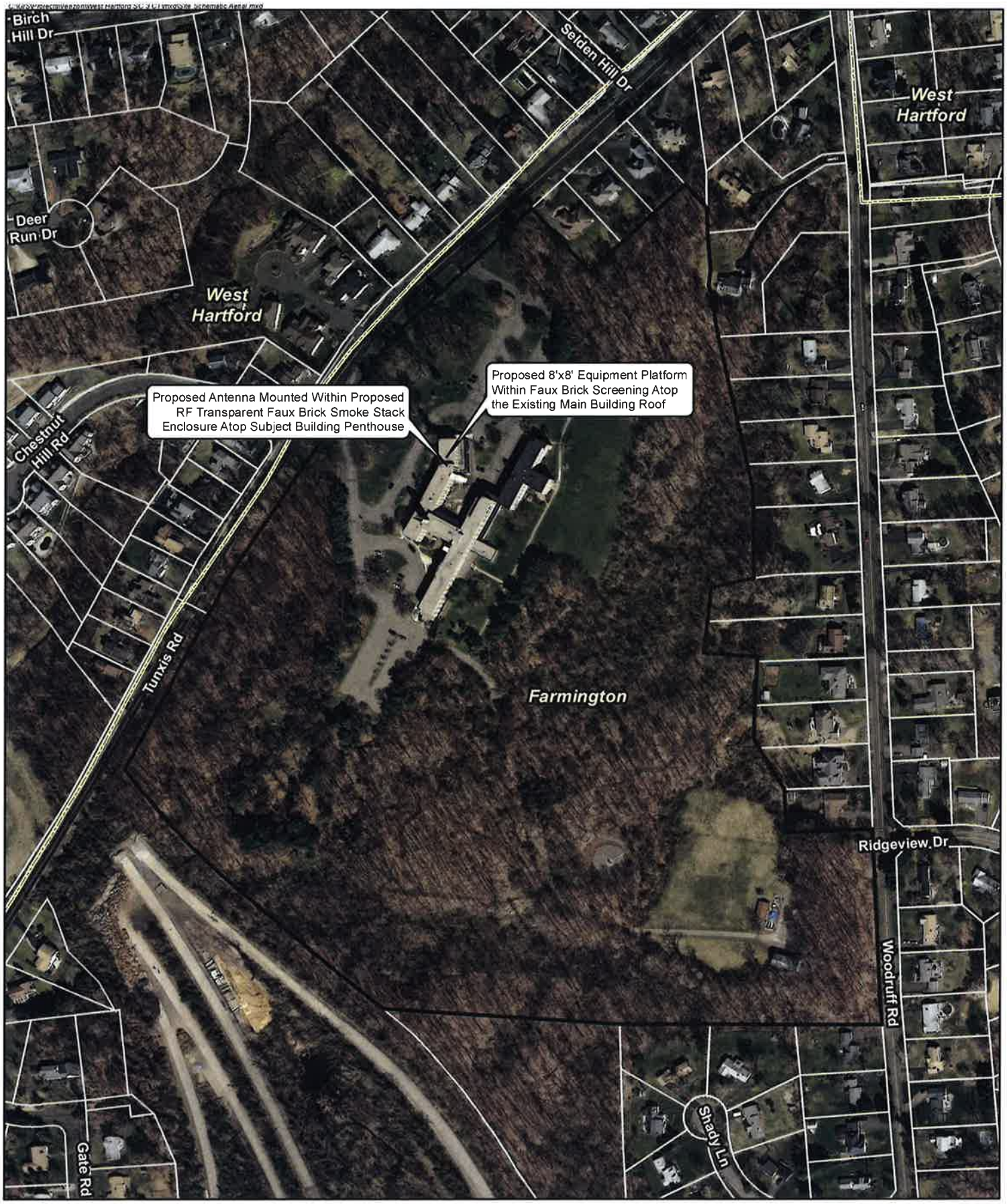
- Proposed Verizon Wireless Small Cell Facility
- Surrounding Verizon Wireless Facilities
- Municipal Boundary
- Waterbody

Site Vicinity Map

Proposed Small Cell Installation
West Hartford SC 3 CT
303 Middle Road
Farmington, Connecticut

Base Map Source: 2012 Aerial Photograph (CTECO)
Map Scale: 1 inch = 5,000 feet
Map Date: July 2015

5,000 2,500 0 5,000 Feet



Legend

- Approximate Subject Property
- Approximate Parcel Boundary (CTDEEP GIS Parcels Last Updated 2010)
- Municipal Boundary

N
W E
S

300 150 0 300
Feet

Map Notes:
Base Map Source: 2012 Aerial Photograph (CTECO)
Map Scale: 1 inch = 300 feet
Map Date: July 2015

Site Schematic

Proposed Small Cell Installation
West Hartford SC 3 CT
303 Middle Road
Farmington, Connecticut

verizon wireless

ALL-POINTS

ATTACHMENT 2

Cellco Partnership

d.b.a. verizon wireless

WIRELESS COMMUNICATIONS FACILITY

WEST HARTFORD SC3
303 MIDDLE ROAD
FARMINGTON, CT 06032

SITE DIRECTIONS

FROM: 99 EAST RIVER DRIVE
EAST HARTFORD, CONNECTICUT

TO: 303 MIDDLE ROAD
FARMINGTON, CONNECTICUT

1.	HEAD EAST ON E RIVER DR TOWARD DARLIN ST	0.3 MI
2.	TURN LEFT TO STAY ON E RIVER DR	354 FT
3.	TURN LEFT AT THE 1ST CROSS STREET ONTO CONNECTICUT BLVD	0.2 MI
4.	TURN LEFT ONTO THE ROUTE 84 W RAMP TO HARTFORD/ROUTE 91	482 FT
5.	MERGE ONTO I-84	0.3 MI
6.	USE THE LEFT 2 LANES TO STAY ON I-84	194 FT
7.	KEEP LEFT TO STAY ON I-84	1.4 MI
8.	KEEP LEFT TO STAY ON I-84	4.6 MI
9.	TAKE EXIT 40 TOWARD CT-71/NEW BRITAIN AVE/CORBINS CORNER	0.2 MI
10.	TURN RIGHT ONTO RIDGEWOOD RD	0.2 MI
11.	TURN LEFT ONTO WOODPOND RD	0.9 MI
12.	TURN LEFT ONTO TUNXIS RD	0.7 MI
13.	CONTINUE ONTO MIDDLE RD, DESTINATION WILL BE ON THE LEFT	10 FT

GENERAL NOTES

1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELLCO PARTNERSHIP.

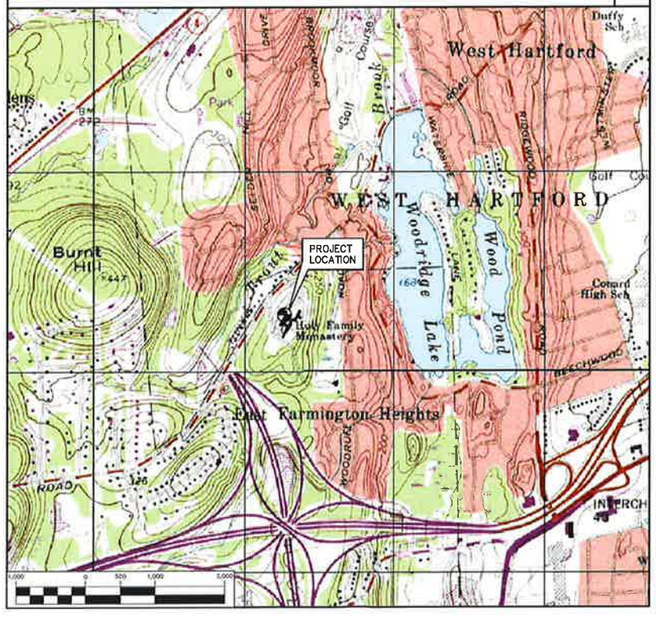
SITE INFORMATION

THE SCOPE OF WORK SHALL INCLUDE:

1. THE INSTALLATION OF A PROPOSED CELLCO PARTNERSHIP 8'x8' EQUIPMENT PLATFORM WITH FAUX BRICK SCREENING LOCATED ATOP THE SUBJECT BUILDING ROOF.
2. A TOTAL OF ONE (1) PROPOSED CELLCO PARTNERSHIP ANTENNA AND ASSOCIATED APPURTENANCES ARE PROPOSED TO BE MOUNTED ATOP THE SUBJECT BUILDING PENTHOUSE WITHIN A PROPOSED RF TRANSPARENT FAUX SMOKESTACK WITH A CENTERLINE ELEVATION OF ±57.11' AGL.
3. POWER AND TELCO UTILITIES SHALL BE ROUTED FROM DEMARCS LOCATED WITHIN OR ADJACENT TO THE EXISTING BUILDING TO THE PROPOSED CELLCO PARTNERSHIP EQUIPMENT LOCATION. ROUTING SHOWN HEREIN IS TENTATIVE. FINAL UTILITY DEMARC LOCATIONS AND ROUTING TO BE DETERMINED DURING CONSTRUCTION DOCUMENT PHASE OF THE PROJECT, AND WILL BE COORDINATED WITH BUILDING OWNER AND LOCAL UTILITY COMPANY REQUIREMENTS.
4. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.

VICINITY MAP

SCALE: 1" = 1000'



PROJECT SUMMARY

SITE NAME:	WEST HARTFORD SC3
SITE ADDRESS:	303 MIDDLE ROAD FARMINGTON, CT 06032
LESSEE/TENANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
VERIZON SITE ACQUISITION CONTACT:	STEVEN SCHADLER CELLCO PARTNERSHIP (508) 887-0357
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE LLP (860) 257-8345
SITE COORDINATES:	LATITUDE: 41°-44'-09.214" N LONGITUDE: 72°-46'-19.974" W GROUND ELEVATION: ±292.5' A.M.S.L. COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 1-A SURVEY CERTIFICATION AS PREPARED FOR VERIZON WIRELESS, BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED MAY 12, 2015.

SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	1
C-1	ABUTTERS MAP	1
C-2	SITE PLAN, ELEVATION AND ANTENNA MOUNTING CONFIGURATION	1

PROFESSIONAL ENGINEER SEAL

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	08/13/15	HMR	DMD	ISSUED FOR CSC
0	08/10/15	CMP	DMD	ISSUED FOR CSC - CLIENT REVIEW

Cellco Partnership d.b.a. verizon wireless

CENTEK engineering
Centered on Solutions
(203) 488-0580
(203) 488-8587 Fax
63-2 North Branford Road
Branford, CT 06405
www.CentekEng.com

Cellco Partnership d/b/a Verizon Wireless
WIRELESS COMMUNICATIONS FACILITY
WEST HARTFORD SC3
303 MIDDLE ROAD
FARMINGTON, CT 06032

DATE: 08/05/15
SCALE: AS NOTED
JOB NO. 14237.000

TITLE SHEET

T-1

Sheet No. 1 of 3

CREEKSIDE LANE CONDO COMPLEX:

N/F
MEI WU & LI HAIPING
5 CREEKSIDE LANE, UNIT #8
WEST HARTFORD, CT 06107

N/F
MARYANN & ARTHUR W DETORE
6 CREEKSIDE LANE
WEST HARTFORD, CT 06107

N/F
SCOTT W SCHUETZ
7 CREEKSIDE LANE
WEST HARTFORD, CT 06107

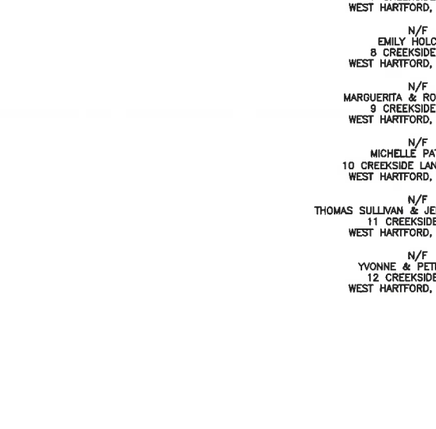
N/F
EMILY HOLCOMB
8 CREEKSIDE LANE
WEST HARTFORD, CT 06107

N/F
MARGUERITA & ROBERT ROSE
9 CREEKSIDE LANE
WEST HARTFORD, CT 06107

N/F
MICHELLE PATCHEN
10 CREEKSIDE LANE, UNIT #3
WEST HARTFORD, CT 06107

N/F
THOMAS SULLIVAN & JENNIFER CAPRIOLA
11 CREEKSIDE LANE
WEST HARTFORD, CT 06107

N/F
YVONNE & PETER PASK
12 CREEKSIDE LANE
WEST HARTFORD, CT 06107



MUNICIPALITY NOTIFICATION LIMIT MAP

N/F
LEONARDO RIVERA
282 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
SHARON BIDSTRUP
286 TUXIS ROAD
WEST HARTFORD, CT 06107

N/F
FELICITA & VINCENT IRWIN, TR
290 TUXIS ROAD
WEST HARTFORD, CT 06107

N/F
ZACHARY J & JOAN J KARAS
294 TUNXIS ROAD
M.A.: 39 SMALLWOOD ROAD
WEST HARTFORD, CT 06107

N/F
RALPH & DONNA CHRISTIANA
316 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
LAWRENCE & MARYLIN WOLFSON
320 TUNXIS ROAD
WEST HARTFORD, CT 06107

SEE CREEKSIDE LANE CONDOS

TUNXIS ROAD

CHESTNUT HILL ROAD

N/F
GARY TOPER
326 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
JUSTIN & ALLYSON DUFFY
328 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
MELISSA MONTAGINO
330 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
VERONICA ADETOLA
334 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
LAURA MCLELLAND & DANIEL JEPPERSON
336 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
KATHLEEN MCDONALD & PAUL SHERBACOW
340 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
EDWARD R SAMPT
322 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
STATE OF CONNECTICUT FLOOD CONTROL
ENVIRONMENTAL PROTECTION
378 TUNXIS ROAD
MA: 79 ELM STREET, 6TH FLOOR
HARTFORD, CT 06106

WEST HARTFORD, CT
FARMINGTON, CT

TUNXIS ROAD

N/F
STATE OF CONNECTICUT
INTERSTATE-84

N/F
MANUEL B & MARIA I PRAZERES
279 TUNXIS ROAD
FARMINGTON, CT 06032

N/F
MANSOOR SARFARAZI
275 TUNXIS ROAD
FARMINGTON, CT 06032

N/F
LEONARDO & SUZANNE GUGLIOTTI
306 TUNXIS ROAD
WEST HARTFORD, CT 06107

N/F
ANN E REUMAN
4 CHESTNUT HILL ROAD
WEST HARTFORD, CT 06107

N/F
HAMID EHSANI & KANGWANNA KADZO
5 CHESTNUT HILL ROAD
WEST HARTFORD, CT 06107

PROPOSED CELLCO PARTNERSHIP RF TRANSPARENT FAUX BRICK SMOKESTACK ENCLOSURE AND 8'x8' EQUIPMENT PLATFORM WITH FAUX BRICK SCREENING ATOP EXISTING PENTHOUSE AND MAIN BUILDING ROOF, RESPECTIVELY.

SUBJECT PROPERTY:
N/F
PASSIONIST FATHERS OF CONNECTICUT INCORPORATED
303 MIDDLE ROAD
FARMINGTON, CT 06032

WEST HARTFORD, CT
FARMINGTON, CT

TOWN LINE, TYP.

N/F
BRUCE C & JANE H COWDREY
267 TUNXIS ROAD
FARMINGTON, CT 06032

N/F
GUY L & FLORA A LONG
271 TUNXIS ROAD
FARMINGTON, CT 06032

N/F
TIFFANY NGUYEN & MICHAEL SENH
21 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
GEORGE & SIMA FROLOV
23 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
BORIS A & MALVINA V SEINYAN
41 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
KIMBERLY A ZOOK & JOHN J FURMANEK
45 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
WILLIAM J & LAURA W LYNCH
51 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
MARIAN ANTON
53 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
JOSEPH A & MARY R BONANNO, TRUSTEES
61 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
SANJAY & JYOTI MITTAL
65 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
GEORGE A & LOIS J WHITE JR
67 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
FRANK & DONATA IACOVELLA, ET ALS
73 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
BRUCE & LORI GALLO
77 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
FRANK B GALLO
79 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
PETER R & JANET B GOTHERS
83 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
CRAIG A FOWLER
93 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
JANE E HAZARD
45 SHADY LANE
FARMINGTON, CT 06032

N/F
CECELIA B MALISZEWSKI
47 SHADY LANE
FARMINGTON, CT 06032

N/F
TOWN OF FARMINGTON
SHADY LANE
M.A.: 1 MONTEITH DRIVE
FARMINGTON, CT 06032

WOODRUFF ROAD

N/F
JADWIGA & ANTHONY KRUK JR
80 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
ANDREW & KARA M HOPKO
84 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
KEITH M JUZWIK
88 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
JULIE ANN ANOPOLSKY
90 WOODRUFF ROAD
FARMINGTON, CT 06032

N/F
MITCHELLE G MCGRATH
94 WOODRUFF ROAD
FARMINGTON, CT 06032

SHADY LANE

1 C-1 ABUTTERS MAP
SCALE: 1" = 150'

APPROXIMATE NORTH

GRAPHIC SCALE
150 0 75 150 300 600
(IN FEET)
1 inch = 150 ft.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	08/13/15	HMR	DMD	ISSUED FOR CSC
0	08/10/15	CTP	DMD	ISSUED FOR CSC - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

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CENTEK engineering
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WEST HARTFORD SC3
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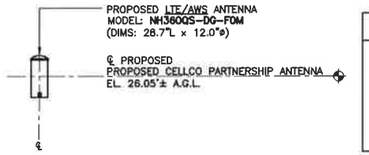
FARMINGTON, CT 06032

DATE: 08/05/15
SCALE: AS NOTED
JOB NO. 14237.000

ABUTTERS MAP

C-1
Sheet No. 2 of 3

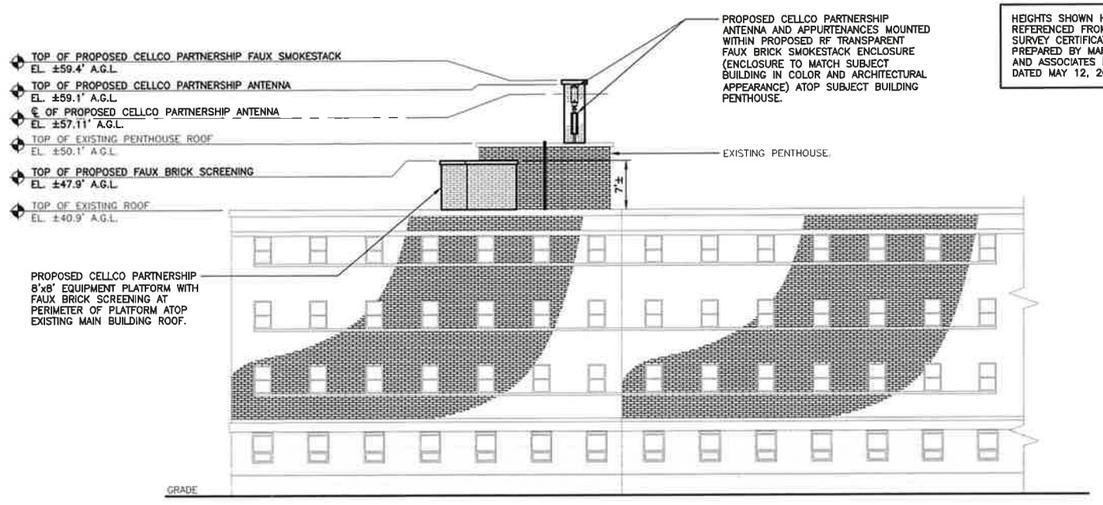


RRH/DISTRIBUTION BOX MOUNTING NOTE

- AWS RRH (MODEL: **ALU RRH2x40-AWS**
  (DIMS: 24.4" L x 12" W x 7.7" D) (TYP. OF 1)
- OVP DISTRIBUTION BOX (MODEL: **RC2DC-1064-PF-48**)
  (DIMS: 20.58"L x 10.15"W x 8.2"D) (TOTAL OF 1)

ANTENNA AND RRH MOUNTED WITHIN FAUX SMOKESTACK.
SEE PLAN/ELEVATION FOR LOCATIONS.

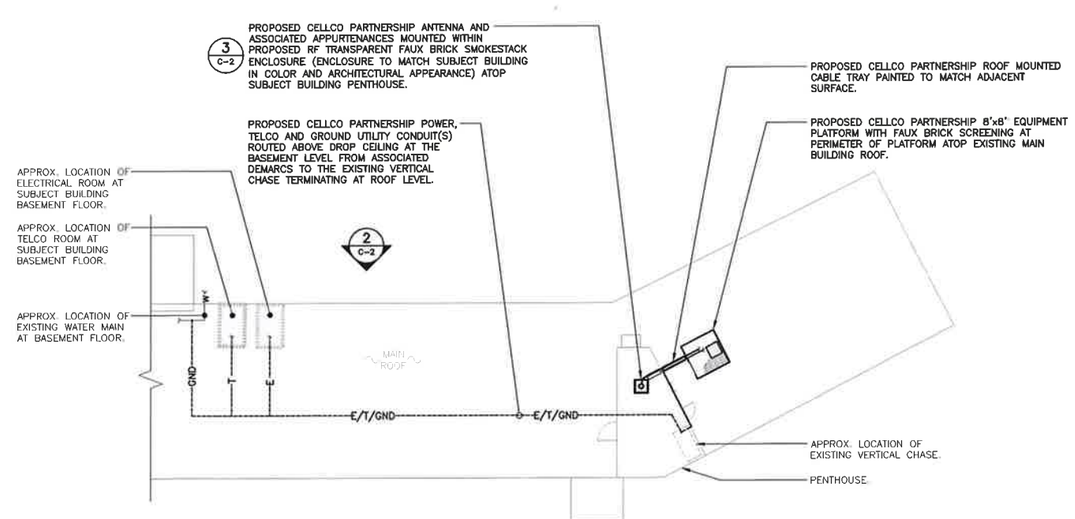
3 / C-2 **ANTENNA MOUNTING CONFIGURATION**
SCALE: 1/4" = 1'



HEIGHTS SHOWN HEREIN ARE REFERENCED FROM FAA 1-A SURVEY CERTIFICATION AS PREPARED BY MARTINEZ COUCH AND ASSOCIATES L.L.C., DATED MAY 12, 2015.

2 / C-2 **PARTIAL WEST ELEVATION**
SCALE: 1" = 10'

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.



1 / C-2 **PARTIAL ROOF PLAN**
SCALE: 1" = 15'

APPROXIMATE NORTH

GRAPHIC SCALE
15 0 7.5 15 30 60
(IN FEET)
1 inch = 15 ft.

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
1	08/13/15	HMR	DMD	ISSUED FOR CSC
0	08/10/15	CTP	DMD	ISSUED FOR CSC - CLIENT REVIEW

PROFESSIONAL ENGINEER SEAL

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CENTEK engineering
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WIRELESS COMMUNICATIONS FACILITY
WEST HARTFORD SC3
303 MIDDLE ROAD
FARMINGTON, CT 06032

DATE:	08/05/15
SCALE:	AS NOTED
JOB NO.	14237.000

SITE PLAN, ELEVATION AND ANTENNA MOUNTING CONFIG.

C-2

Sheet No. 3 of 3

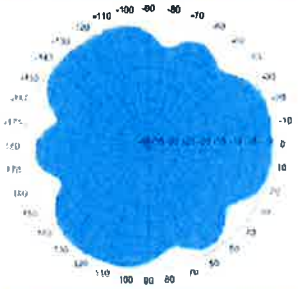
ATTACHMENT 3

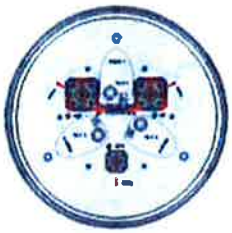
COMMSCOPE®

verizonwireless

Metro Cell Antennas with Internal Diplexer and GPS Antenna

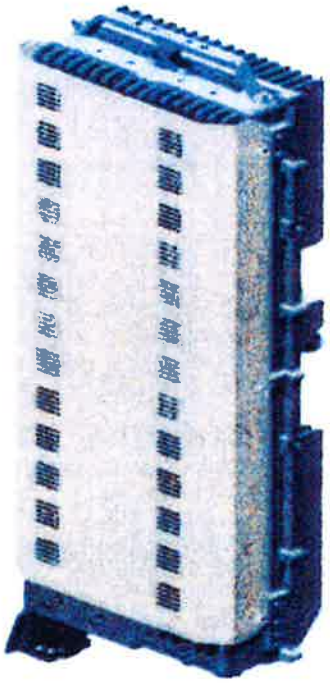
Dualband Quasi-Omni (360°), Metro Cell Antenna





	NH360QS-DG-F0M					NH360QT-DG-F0				
ELECTRICAL SPECIFICATIONS										
Operating Frequency Range	698 - 896 and 1710 - 2170 MHz					698 - 896 and 1710 - 2170 MHz				
Frequency Bands, MHz	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170	698 - 806	806 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Polarization	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°	±45°
Gain, dBi	4.3	5.3	8.0	8.1	8.5	1.3	2.3	4.0	4.2	4.5
Beamwidth, Horizontal, degrees	360	360	360	360	360	360	360	360	360	360
Beamwidth, Vertical, degrees	30.0	24.0	16.0	15.0	14.0	60.0	55.0	32.5	30.0	28.5
USLS, dB	12	12	14	13	13	-	-	14	12	11
Beam Tilt, degrees	0	0	0-16	0-16	0-16	0	0	0	0	0
Isolation, dB	25	25	25	25	25	25	25	25	25	25
VSWR (Return Loss, dB)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)	1.5 (14.0)
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150	-150	-150	-150	-150	-150	-150	-150	-150
Input Power per Port, maximum, watts	250	250	250	250	250	250	250	250	250	250
MECHANICAL SPECIFICATIONS										
Connnector Interface	7-16 DIN Female					7-16 DIN Female				
Connector Quantity, Location	2, Bottom					2, Bottom				
GPS Connnector Interface	4.1/9.5 DIN Female					4.1/9.5 DIN Female				
GPS Connector Quantity, Location	1, Bottom					1, Bottom				
Length, mm (inch)	730 (28.7)					360 (14.2)				
Outer Diameter, mm (inch)	305 (12.0)					305 (12.0)				
Wind Speed, maximum, km/h (mph)	241.4 (150)					241.4 (150)				
Net Weight, kg (lb)	20.0 (44.1)					12.0 (26.5)				
AVAILABILITY										
Expected Ready Date for Manufacturing	March 2014					June 2014				

The Alcatel-Lucent RRH2x60-AWS is a high power, small form factor Remote Radio Head operating in the AWS frequency band (3GPP Band 4) for LTE technology. It is designed with an eco-efficient approach, providing operators with the means to achieve high quality and high capacity coverage with minimum site requirements and efficient operation.



A distributed Node B expands the deployment options by using two components, a Base Band Unit (BBU) containing the digital assets and a separate RRH containing the radio-frequency (RF) elements. This modular design optimizes available space and allows the main components of a Node B to be installed separately, within the same site or several kilometers apart.

The Alcatel-Lucent RRH2x60-AWS is linked to the BBU by an optical-fiber connection carrying downlink and uplink digital radio signals along with operations, administration and maintenance (OA&M) information.

The Alcatel-Lucent RRH2x60-AWS integrates all the latest technologies. This allows to offer best-in-class characteristics.

It delivers an outstanding 120 watts of total RF power thanks to its two transmit RF paths of 60 W each.

It is ideally suited to support multiple-input multiple-output (MIMO) 2x2 operation.

It includes four RF receivers to natively support 4-way uplink reception diversity. This improves the radio uplink coverage and this can be used to extend the cell radius commensurate with 2x2MIMO 2x60 W for the downlink.

It supports multiple discontinuous LTE carriers within an instantaneous bandwidth of 45 MHz corresponding to the entire AWS B4 spectrum.

The latest generation power amplifiers (PA) used in this product achieve high efficiency (>40%), resulting in improved power consumption figures.

The Alcatel-Lucent RRH2x60-AWS is designed to make available all the benefits of a distributed Node B, with excellent RF characteristics, with low capital expenditures (CAPEX) and low operating expenditures (OPEX).

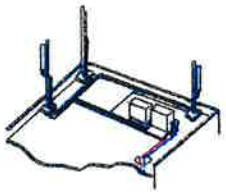
The Alcatel-Lucent RRH2x60-AWS is a very cost-effective solution to deploy LTE MIMO.

The RRH2x60-AWS includes a reversible mounting bracket which allows for ease of installation behind an antenna, or on a rooftop knee wall while providing easy access to the mid body RF connectors.

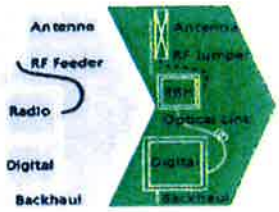
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation time and costs.

The Alcatel-Lucent RRH2x60-AWS is a zero-footprint solution and is convection cooled without fans for silent operation, simplifying negotiations with site property owners and minimizing environmental impacts.

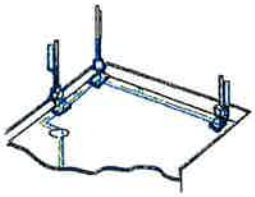
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

- RRH2x60-AWS integrates two power amplifiers of 60W rating (at each antenna connector)
- Support multiple carriers over the entire 3GPP band 4
- RRH2x60-AWS is optimized for LTE operation
- RRH2x60-AWS is a very compact and lightweight product
- Advanced power management techniques are embedded to provide power savings, such as PA bias control
- MIMO LTE operation with only one single unit per sector
- Improved uplink coverage with built-in 4-way receive diversity capability
- RRH can be mounted close to the antenna, eliminating nearly all losses in RF cables and thus reducing power consumption by 50% compared to conventional solutions
- Distributed configurations provide easily deployable and cost-effective solutions, near zero footprint and silent solutions, with minimum impact on the neighborhood, which ease the deployment
- RETA and TMA support without additional hardware thanks to the AISG v2.0 port and the integrated Bias-Tees. Bias-Tees support AISG DC supply and signaling.

Specifications listed are hardware capabilities. Some capabilities depend on support in a specific software release or future release.

Dimensions and weights

- HxWxD : 510x285x186mm (27 l with solar shield)
- Weight : 20 kg (44 lbs)

Electrical Data

- Power Supply : -48V DC (-40.5 to -57V)
- Power Consumption (ETSI average traffic load reference) : 250W @2x60W

RF Characteristics

- Frequency band: 1710-1755, UL / 2110-2155 MHz, DL (3GPP band 4)
- Output power: 2x60W at antenna connectors
- Technology supported: LTE
- Instantaneous bandwidth: 45 MHz
- Rx diversity: 2-way and 4-way uplink reception
- Typical sensitivity without Rx diversity: -105 dBm for LTE

Connectivity

- Two CPRI optical ports for daisychaining and up to six RRHs per fiber
- Type of optical fiber: Single-Mode (SM) and Multi-Mode (MM) SFPs
- Optical fiber length: up to 500m using MM fiber, up to 20km using SM fiber
- TMA/RETA : AISG 2.0 (RS485 connector and internal Bias-Tee)
- Six external alarms
- Surge protection for all external ports (DC and RF)

Environmental specifications

- Operating temperature: -40°C to 55°C including solar load
- Operating relative humidity: 8% to 100%
- Environmental Conditions : ETS 300 019-1-4 class 4.1E
- Ingress Protection : IEC 60529 IP65
- Acoustic Noise : Noiseless (natural convection cooling)

Safety and Regulatory Data

- EMC : 3GPP 25113, EN 301 489-1, EN 301 489-23, GR 1089, GR 3108, OET-65
- Safety : IEC60950-1, EN 60825-1, UL, ANSI/NFPA 70, CAN/CSA-C22.2
- Regulatory : FCC Part 15 Class B, CE Mark – European Directive : 2002/95/EC (ROHS); 2002/96/EC (WEEE); 1999/5/EC (R&TTE)
- Health : EN 50385

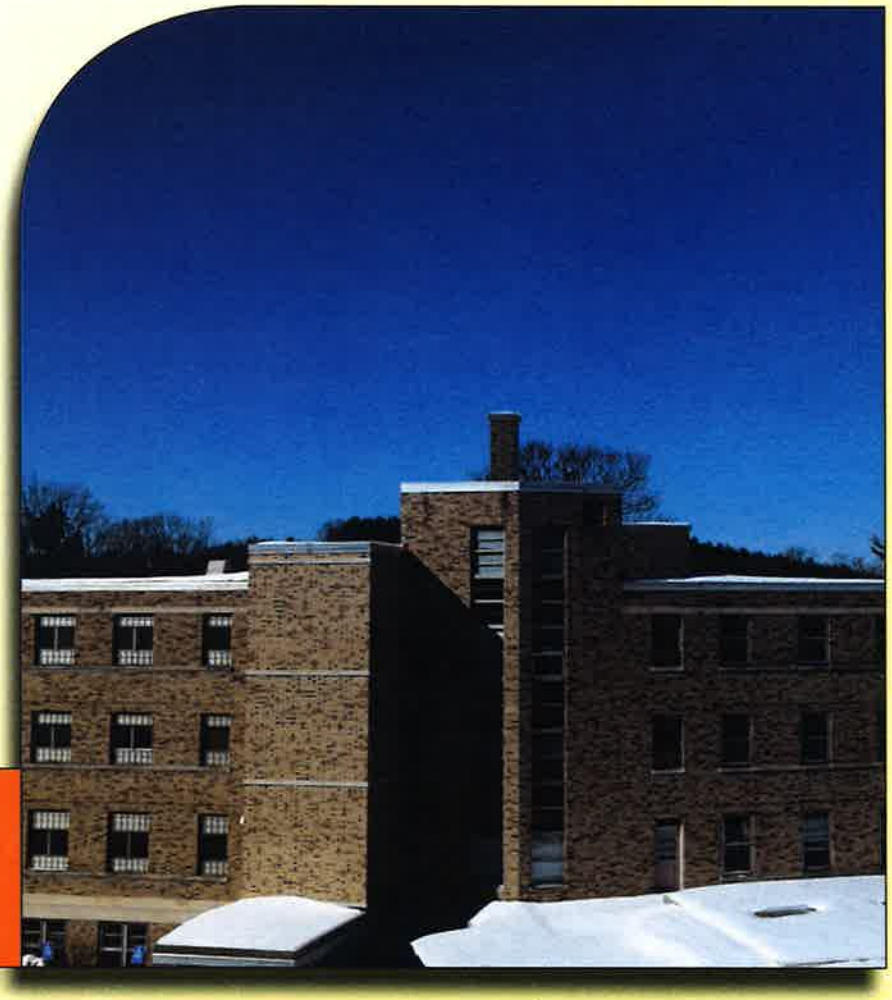
Alcatel·Lucent

AT THE SPEED OF IDEAS™

ATTACHMENT 4

Limited Visual Assessment and Photo-Simulations

WEST HARTFORD SC 3
303 TUNXIS ROAD
WEST HARTFORD, CT



Prepared in July 2015 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06141

Prepared for Verizon Wireless

ALL-POINTS
TECHNOLOGY CORPORATION

LIMITED VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a limited visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a small cell wireless telecommunications Facility at 303 Tunxis Road in West Hartford, Connecticut (the "Property").

Project Setting

The Property is located east of Tunxis Road in a residential section of West Hartford. The Property is currently improved with a four-story, irregularly shaped masonry residential building occupied by an assisted living complex. The proposed Facility would include the installation of a single canister omni-directional antenna and associated appurtenances mounted within a faux chimney concealment enclosure to be located atop an existing penthouse rooftop on the northwest end of the building. The faux chimney would extend approximately nine (9) feet above the penthouse roof, reaching a top overall height of 55.5 feet above ground level. Supporting equipment would be located within an approximate 8-foot by 8-foot platform with a faux brick perimeter screening wall on the roof. Electrical, telco and grounding cables would be routed through interior portions of the building from basement locations.

Methodology

On February 13, 2015, APT personnel conducted a field reconnaissance to photo-document existing conditions. Nine (9) nearby locations were selected to depict representative existing and proposed 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. The lens was set to 50 mm for all but three (3) of the photos. Photograph location #1 was shot with 24 mm lens setting and photograph location #2 and #9 were captured using a 35 mm lens setting. The wider lens settings were used in order to provide a greater depth of field for presentation in this report. Focal lengths ranging from 24 mm to 50 mm approximate views similar to that achieved by the human eye. However, two key aspects of an image can be affected by the specific focal length that is selected: field of view and relation of sizes between objects in the frame. A 24 or 35 mm focal length will provide a wider field of view, representative of the extent the human eyes may see (including some peripheral vision), but the relation of sizes between objects at the edges of the photos can become minimally skewed. A 50 mm focal length has a narrower field of view than the human eye but the relation of sizes between objects is represented similar to what the human eye might perceive.

> *"The lens that most closely approximates the view of the unaided human eye is known as the normal focal-length lens. For the 35 mm camera format, which gives a 24x36 mm image, the normal focal length is about 50 mm.[1]"*

[1] Warren, Bruce. Photography, West Publishing Company, Eagan, MN, c. 1993, (page 70).

When taking photographs for these analyses, APT prefers a focal length of 50 mm; however there are times when wider views (requiring the use of alternate lens settings, as in this case) can better reflect "real world" viewing conditions by providing greater context to the scene. Regardless of the lens setting, the scale of the subject in the photograph and corresponding simulation remains proportional to its surroundings.

Photographic simulations were generated to portray scaled renderings of the proposed installation from representative locations where it would be visible. Using field data, site plan information, and 3D modeling software, the spatially referenced models of the project area, the existing structure and the proposed installation were generated and merged. The geographic coordinates obtained in the field for the photograph locations were incorporated into the model to produce virtual camera positions within the spatial 3D model. Photo simulations were then created using a combination of renderings generated in the 3D model and photo-rendering software programs, depicting the proposed installation scaled to the correct location and height, relative to the existing structure and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format[2]. A photolog map and copies of the existing conditions and photo-simulations are attached.

Conclusions

The visibility of the proposed installation would be limited primarily to locations on the Property and immediately to the west along Tunxis Road (See photos 6 and 7). Existing topography and vegetation obscure the building and site location from areas beyond the road frontage of the Property. The design of the facility, including the faux brick enclosures for concealing both the antenna and equipment, results in appurtenances that appear to be part of the original structure. Based on the results of this assessment, it is APT's opinion that the proposed installation of Verizon Wireless equipment at the Property would not be highly visible nor have a significant impact on aesthetics in the area.

Limitations

This analysis does not claim to depict the only areas, or all locations, where visibility may occur; it is intended to provide a representation of those areas where the Facility is likely to be seen. The photo-simulations provide a representation of the Facility under similar settings as those encountered during the field reconnaissance. 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. Weather conditions on the day of the reconnaissance included mostly sunny skies and the photo-simulations presented in this report provide an accurate portrayal of the Facility during comparable conditions.

---

[2] When viewing in this format size, we believe it is important to provide the largest representational image while maintaining an accurate relation of sizes between objects within the frame of the photograph and depicting the subject in a way similar to what an observer might see, to the greatest extent possible.

ATTACHMENTS

PHOTO LOG

Legend

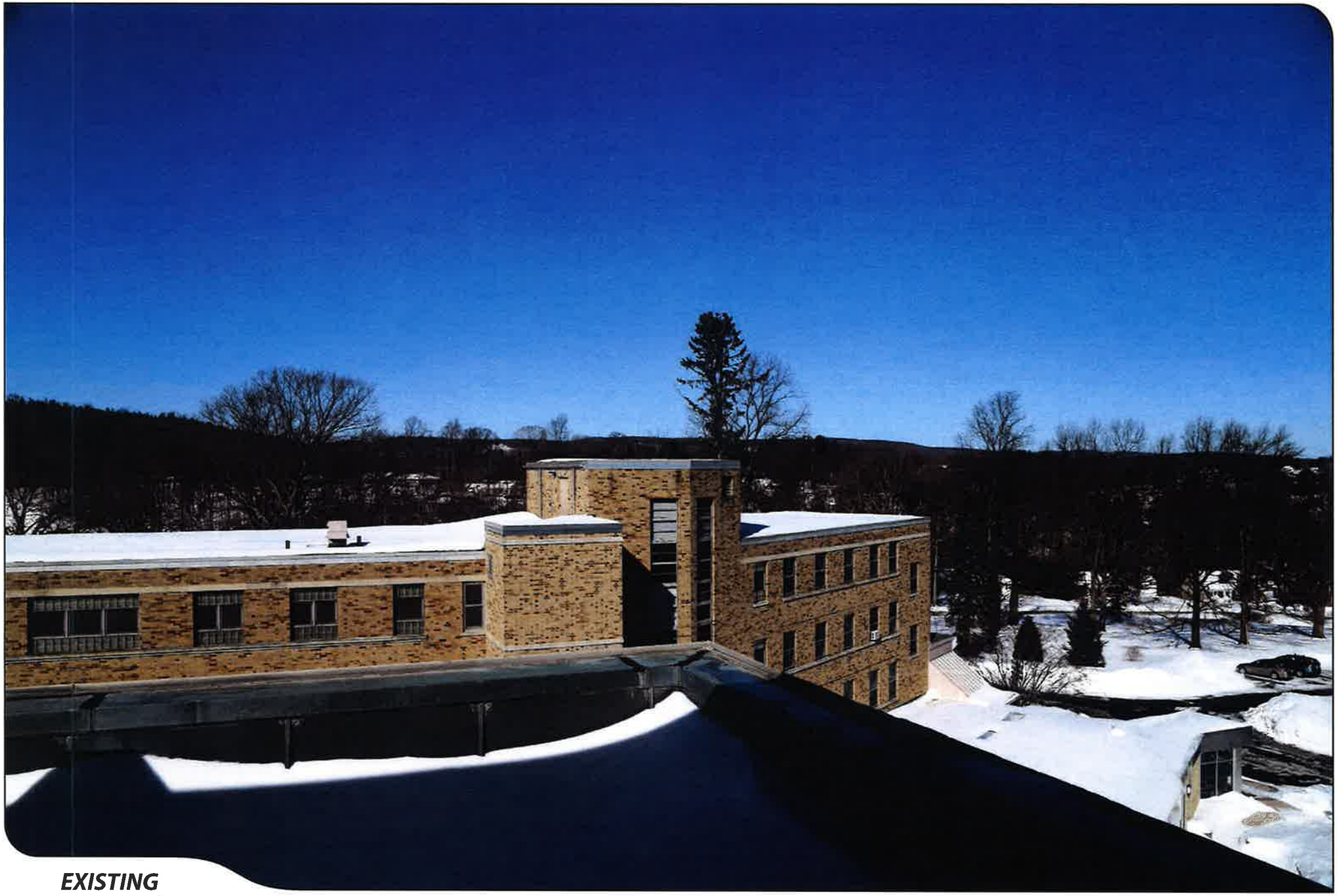
Site Photo Location

200 100 0 200 Feet

1 inch = 200 feet

ALL-POINTS

verizon

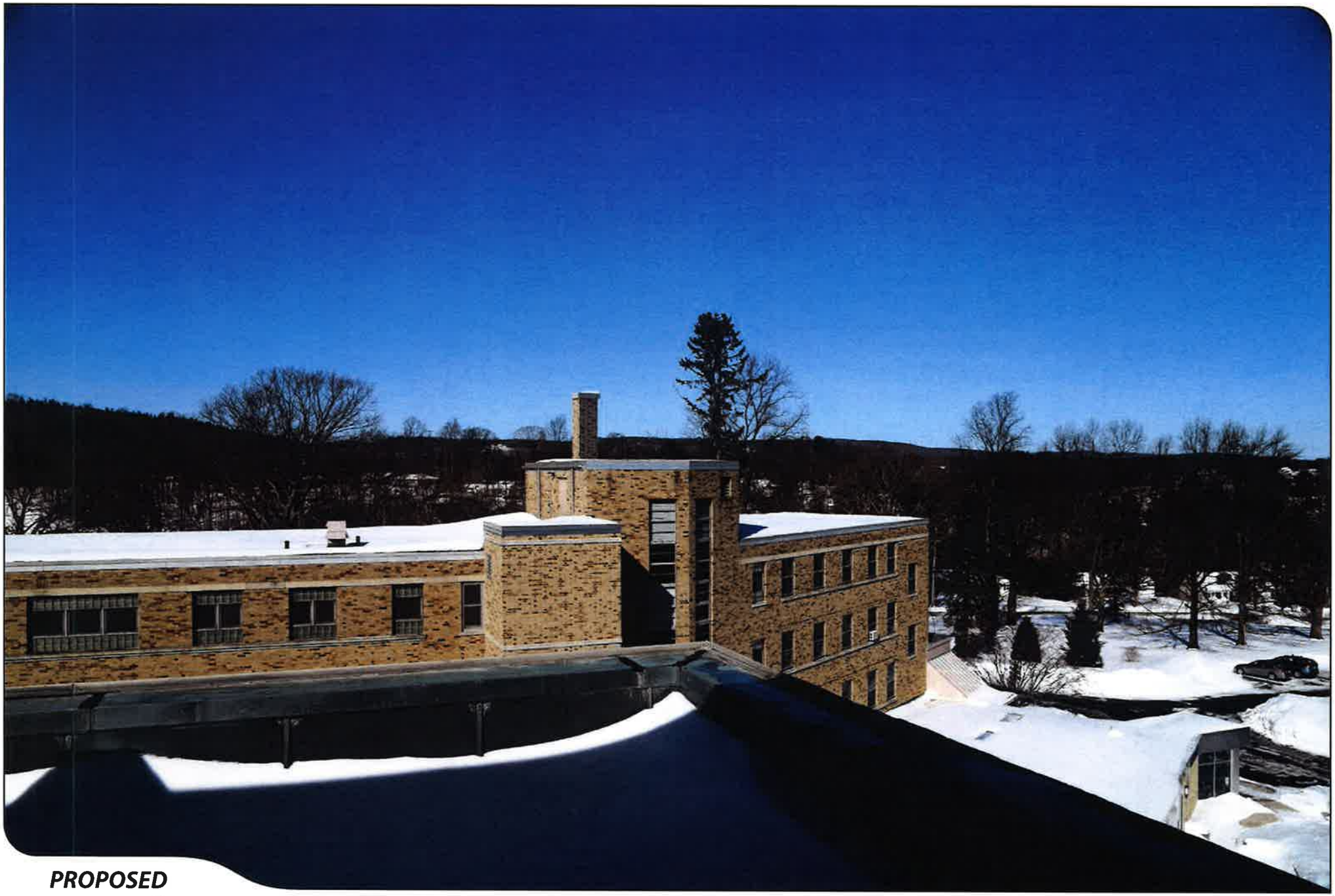


EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	**HOST PROPERTY ROOFTOP (24mm Focal Length)**	**NORTHWEST**	**+/- 111 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

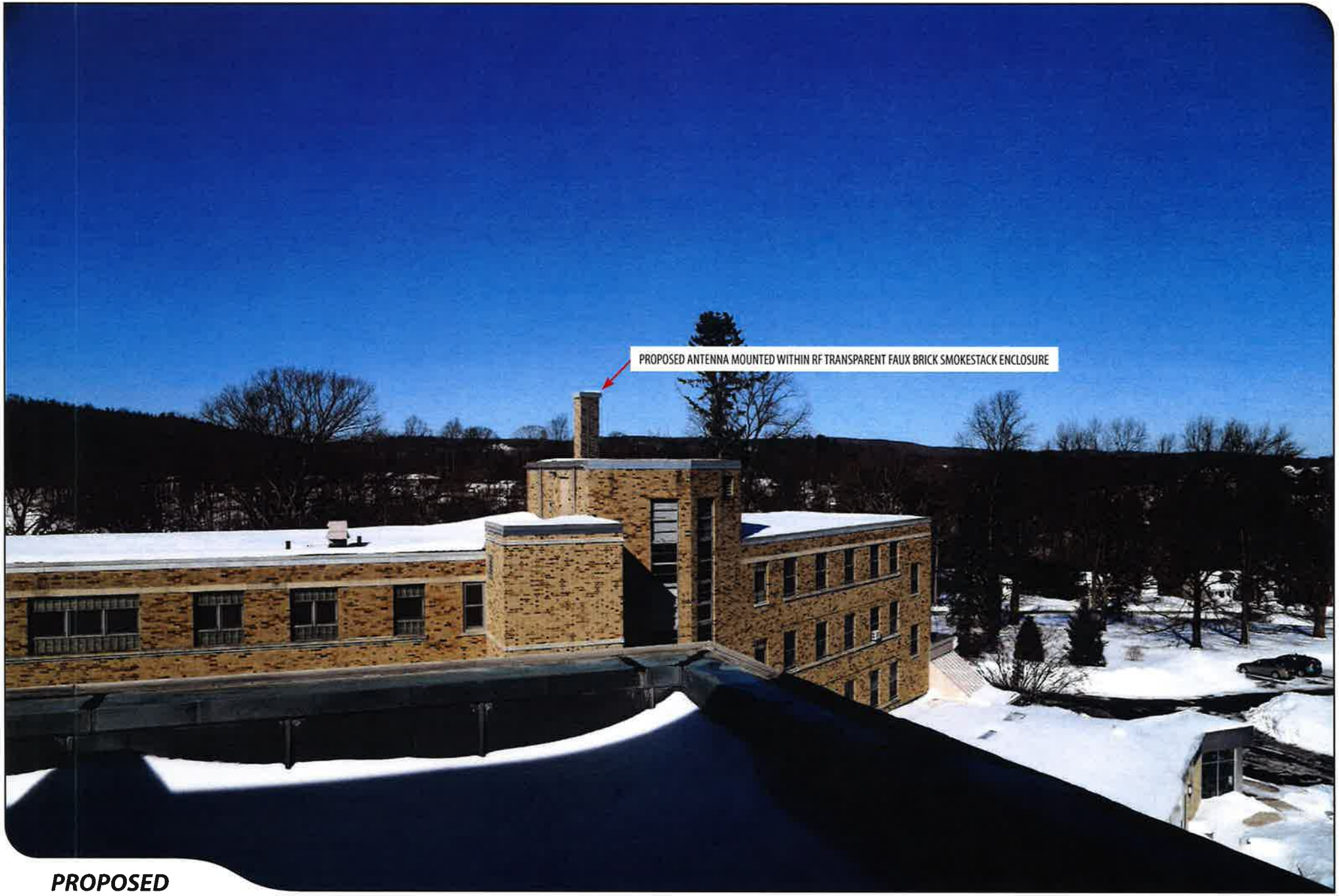


PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	**HOST PROPERTY ROOFTOP (24mm Focal Length)**	**NORTHWEST**	**+/- 111 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	**HOST PROPERTY ROOFTOP (24mm Focal Length)**	**NORTHWEST**	**+/- 111 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
2	**HOST PROPERTY ROOFTOP (35mm Focal Length)**	**WEST**	**+/- 133 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

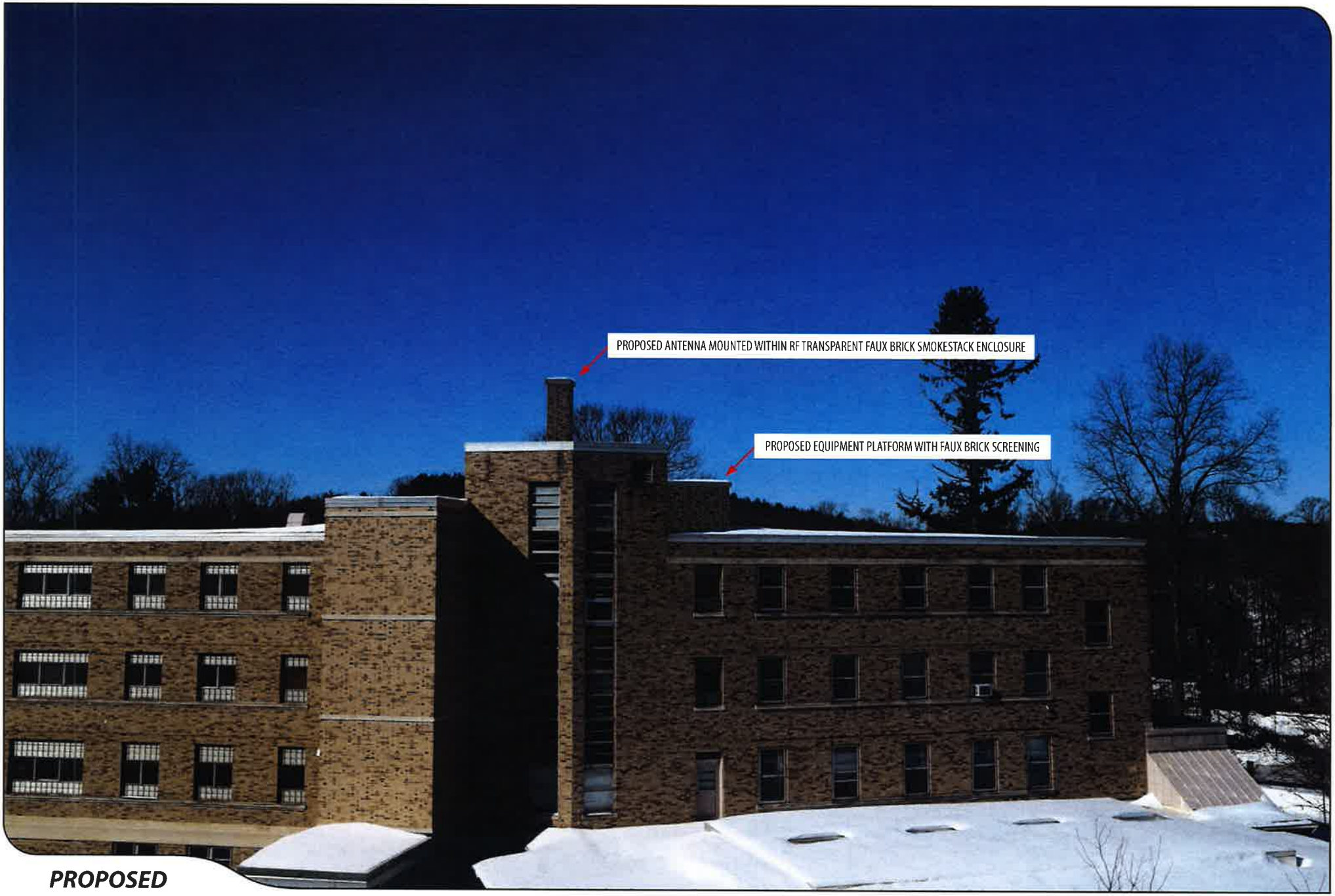
verizon

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
2	**HOST PROPERTY ROOFTOP (35mm Focal Length)**	**WEST**	**+/- 133 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
2	**HOST PROPERTY ROOFTOP (35mm Focal Length)**	**WEST**	**+/- 133 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

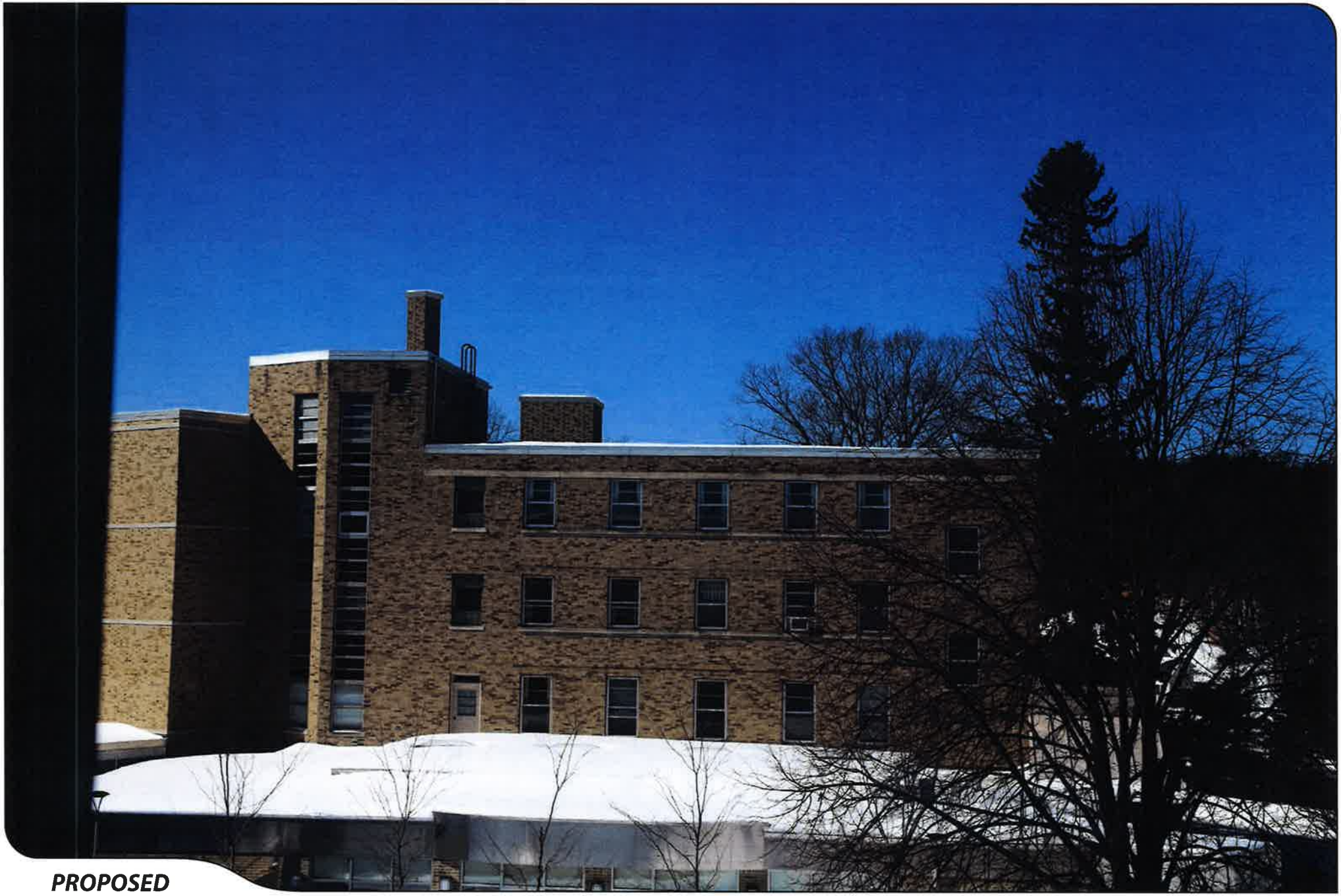
verizon

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	**HOST PROPERTY - INSIDE BUILDING**	**SOUTHWEST**	**+/- 181 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

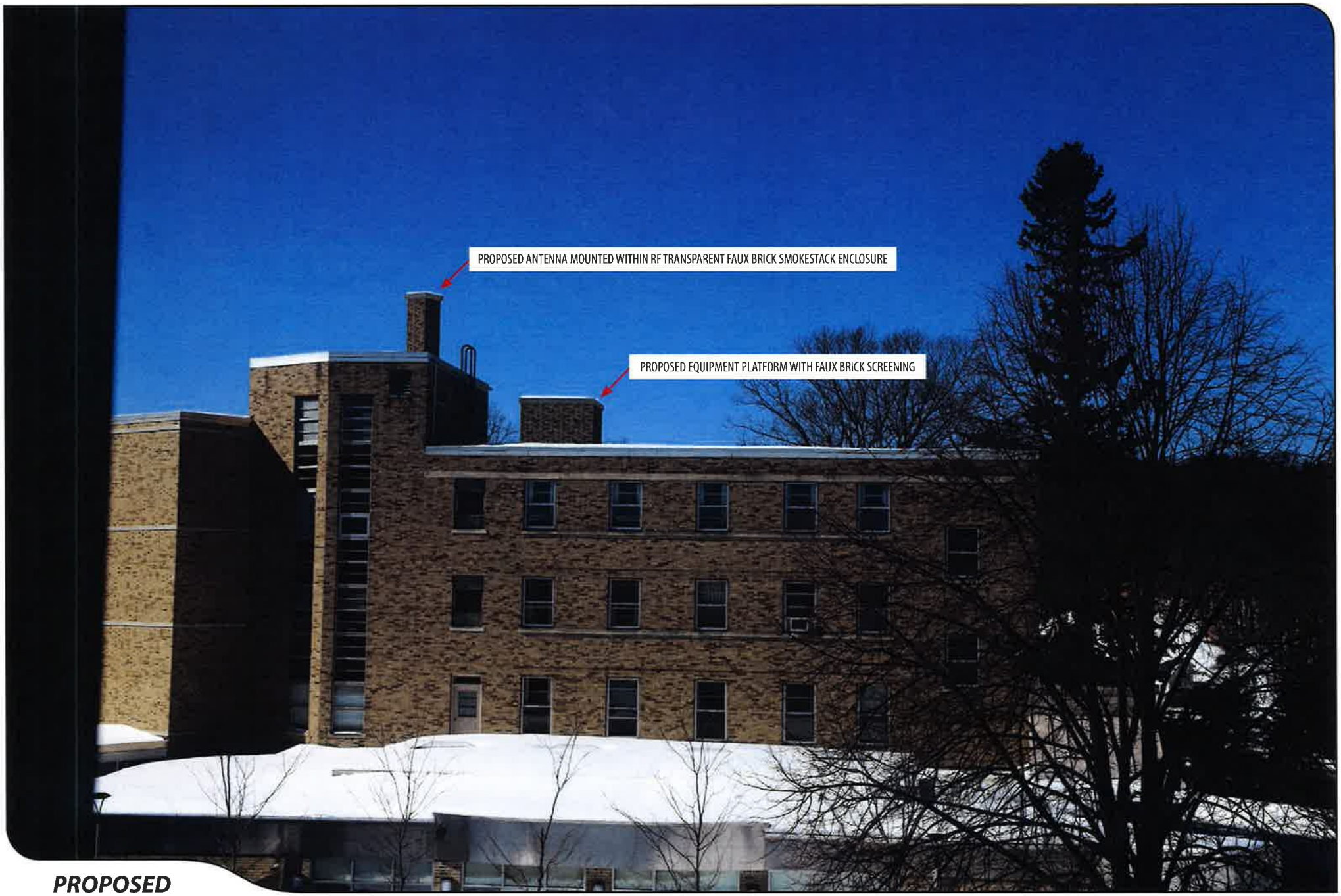


PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	**HOST PROPERTY - INSIDE BUILDING**	**SOUTHWEST**	**+/- 181 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
3	**HOST PROPERTY - INSIDE BUILDING**	**SOUTHWEST**	**+/- 181 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

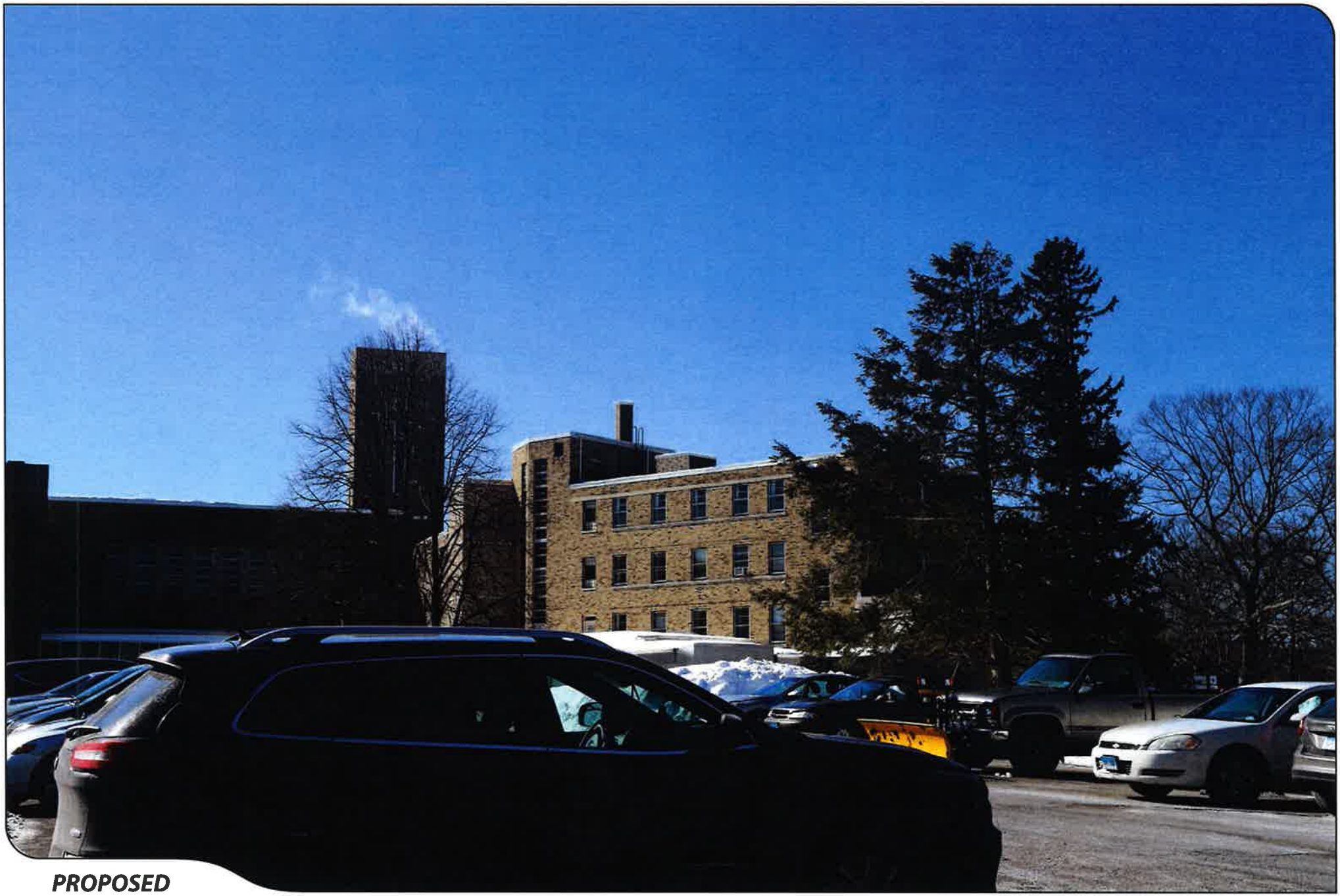
verizon

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
4	**HOST PROPERTY**	**SOUTHWEST**	**+/- 317 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

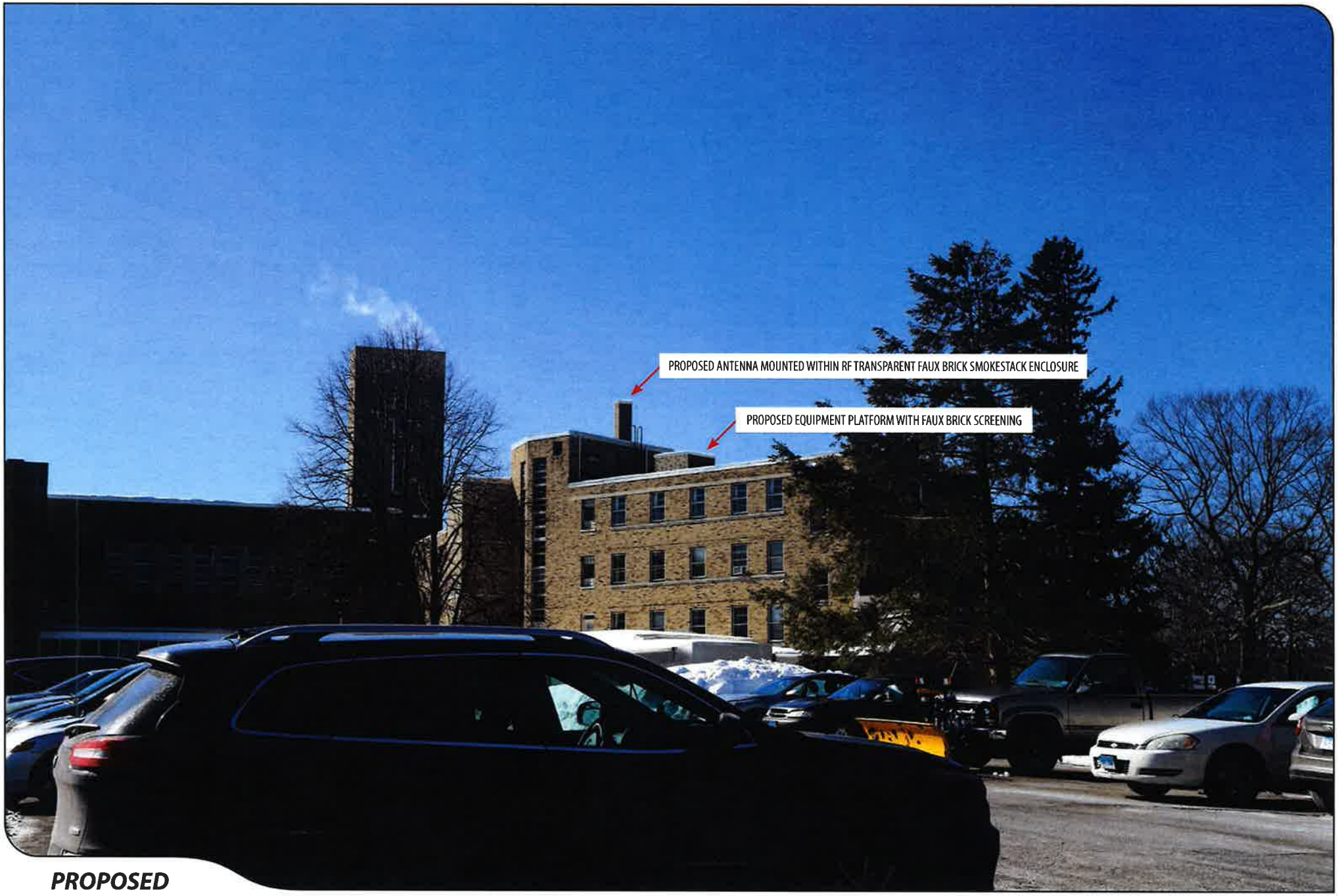


PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
4	**HOST PROPERTY**	**SOUTHWEST**	**+/- 317 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
4	**HOST PROPERTY**	**SOUTHWEST**	**+/- 317 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	**HOST PROPERTY**	**SOUTHWEST**	**+/- 333 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

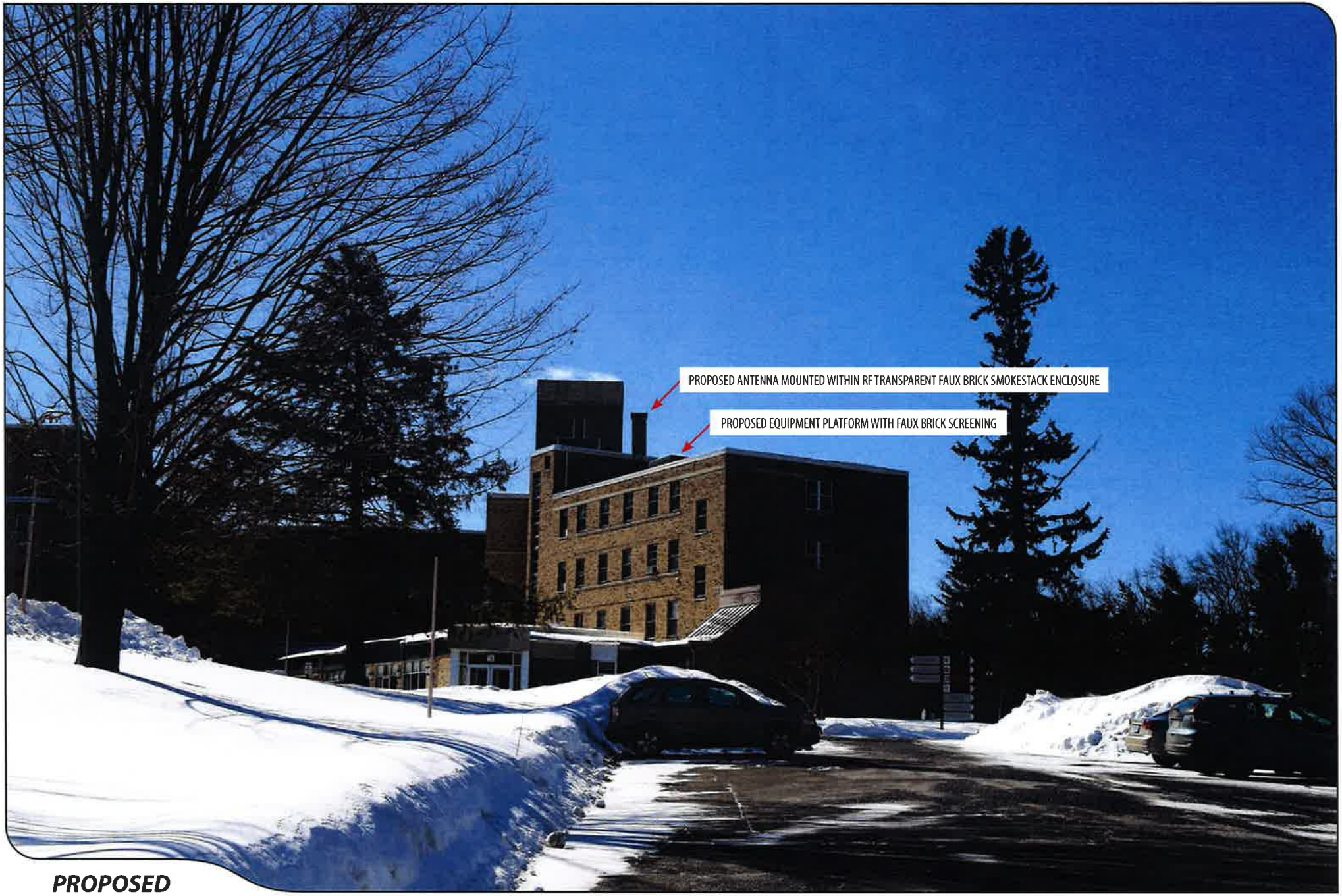
verizon

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	**HOST PROPERTY**	**SOUTHWEST**	**+/- 333 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
5	**HOST PROPERTY**	**SOUTHWEST**	**+/- 333 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon wireless

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
6	**TUNXIS ROAD**	**SOUTH**	**+/- 0.10 MILE**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
6	**TUNXIS ROAD**	**SOUTH**	**+/- 0.10 MILE**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
6	**TUNXIS ROAD**	**SOUTH**	**+/- 0.10 MILE**

ALL-POINTS TECHNOLOGY CORPORATION

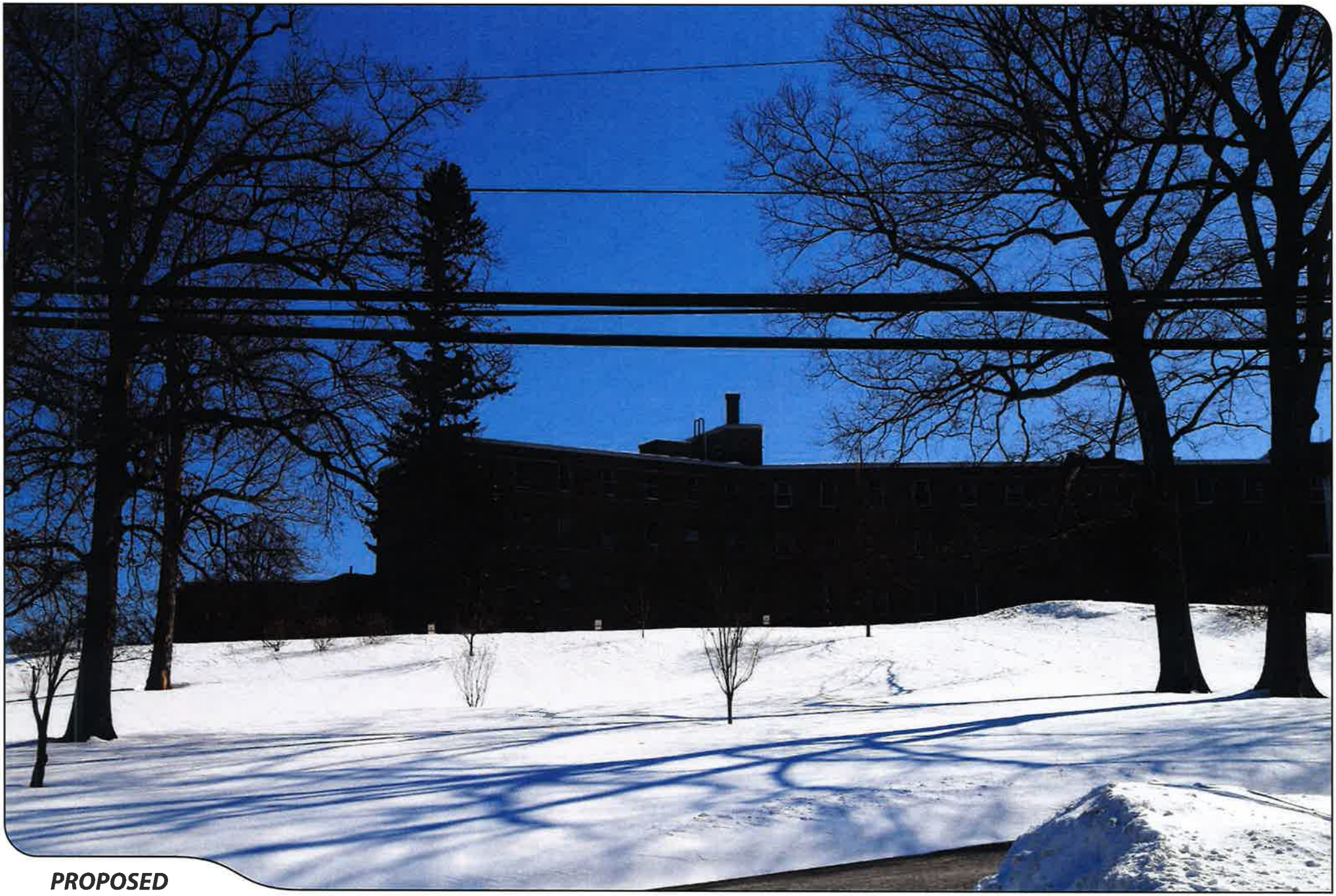
verizon

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
7	**TUNXIS ROAD**	**SOUTHEAST**	**+/- 352 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

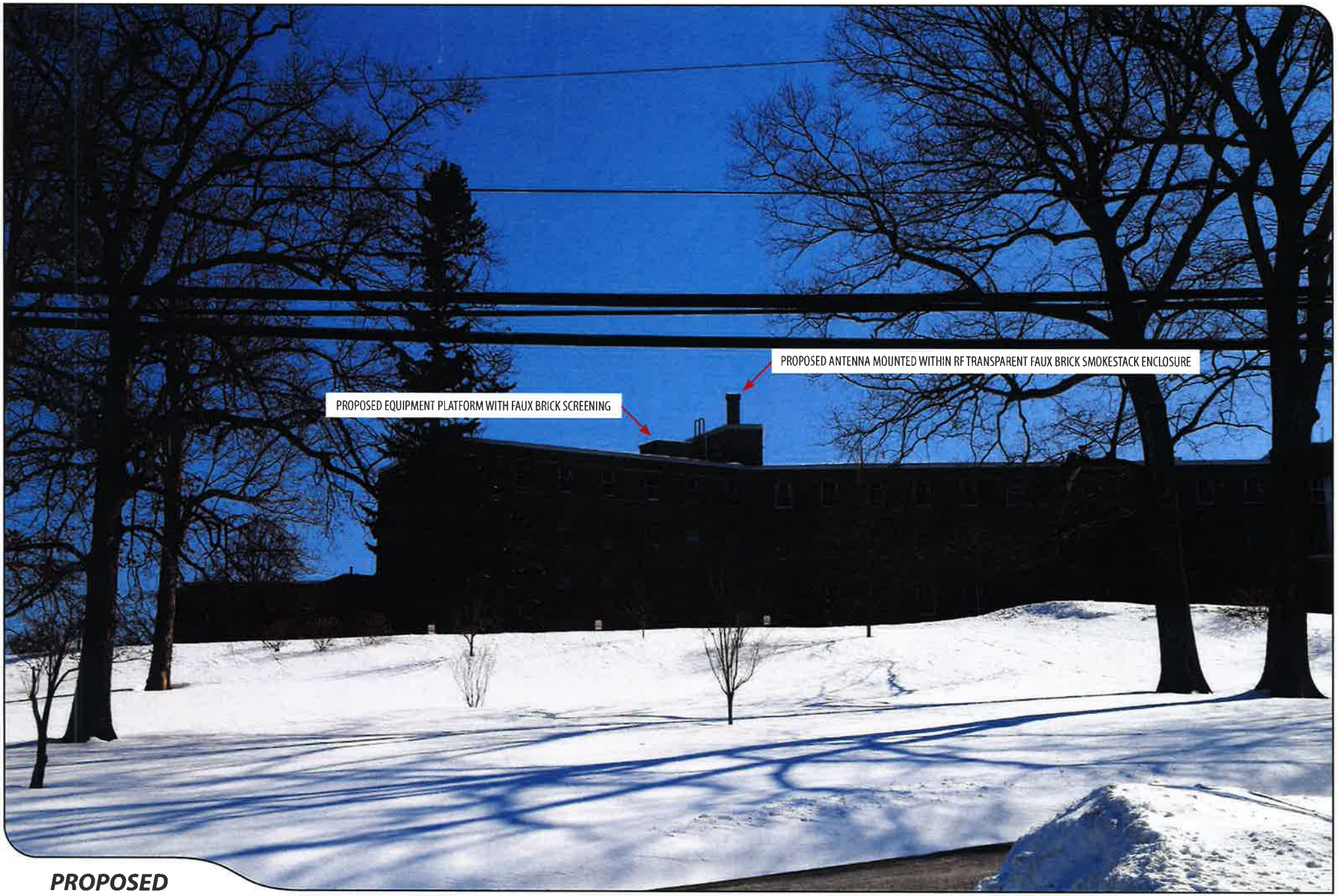


PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
7	**TUNXIS ROAD**	**SOUTHEAST**	**+/- 352 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
7	**TUNXIS ROAD**	**SOUTHEAST**	**+/- 352 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
8	**HOST PROPERTY**	**NORTHEAST**	**+/- 248 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

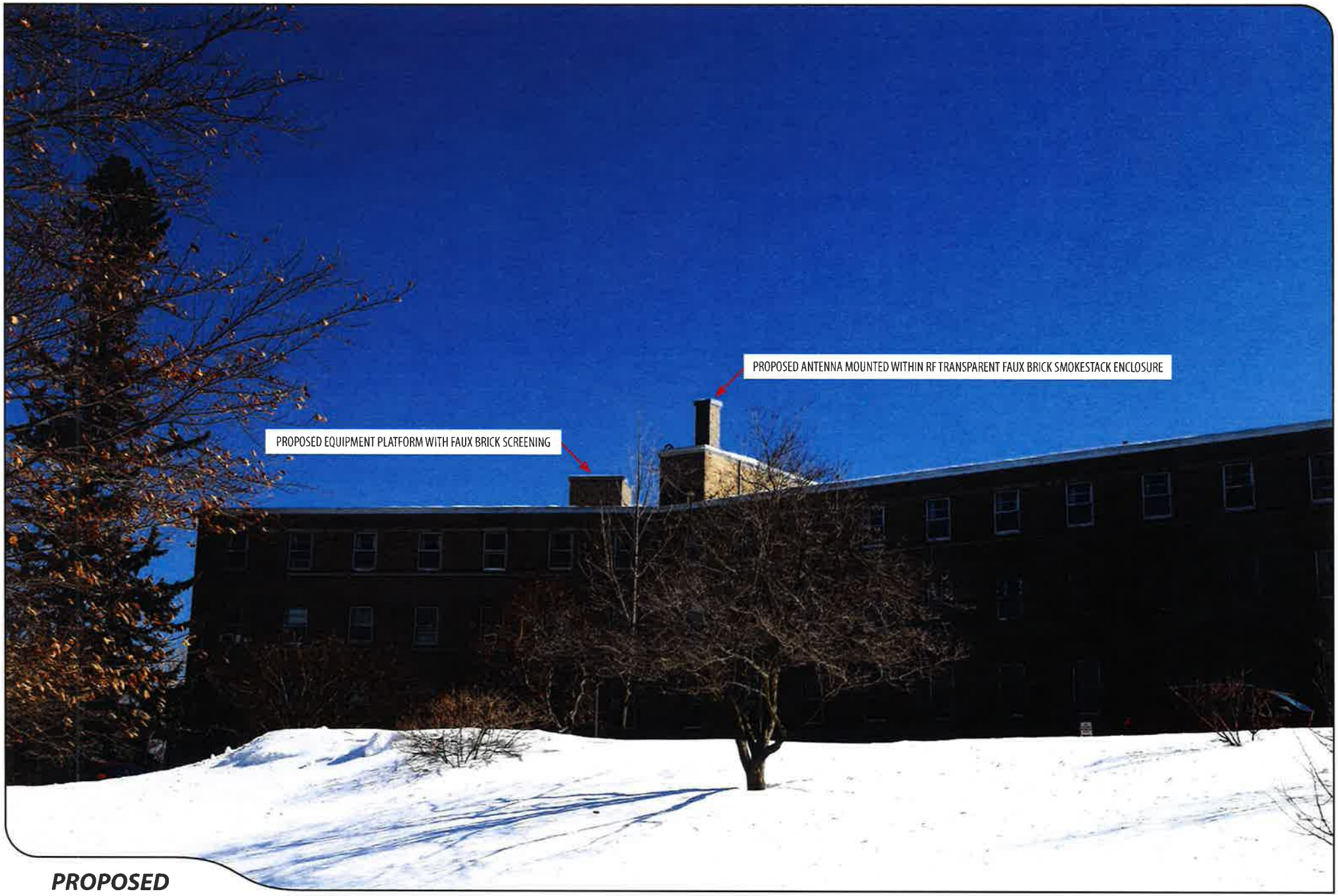
verizon

PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
8	**HOST PROPERTY**	**NORTHEAST**	**+/- 248 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

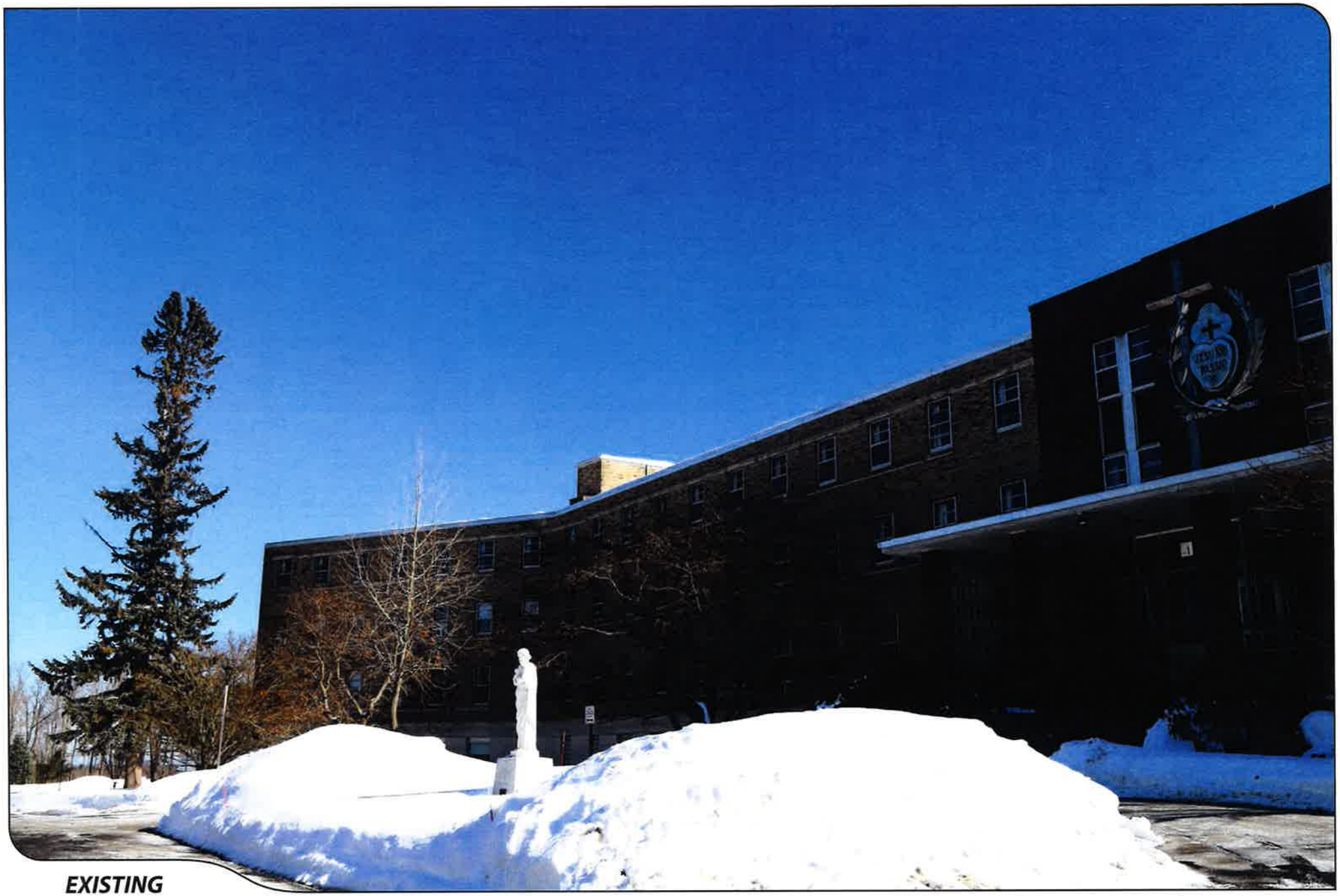


PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
8	**HOST PROPERTY**	**NORTHEAST**	**+/- 248 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

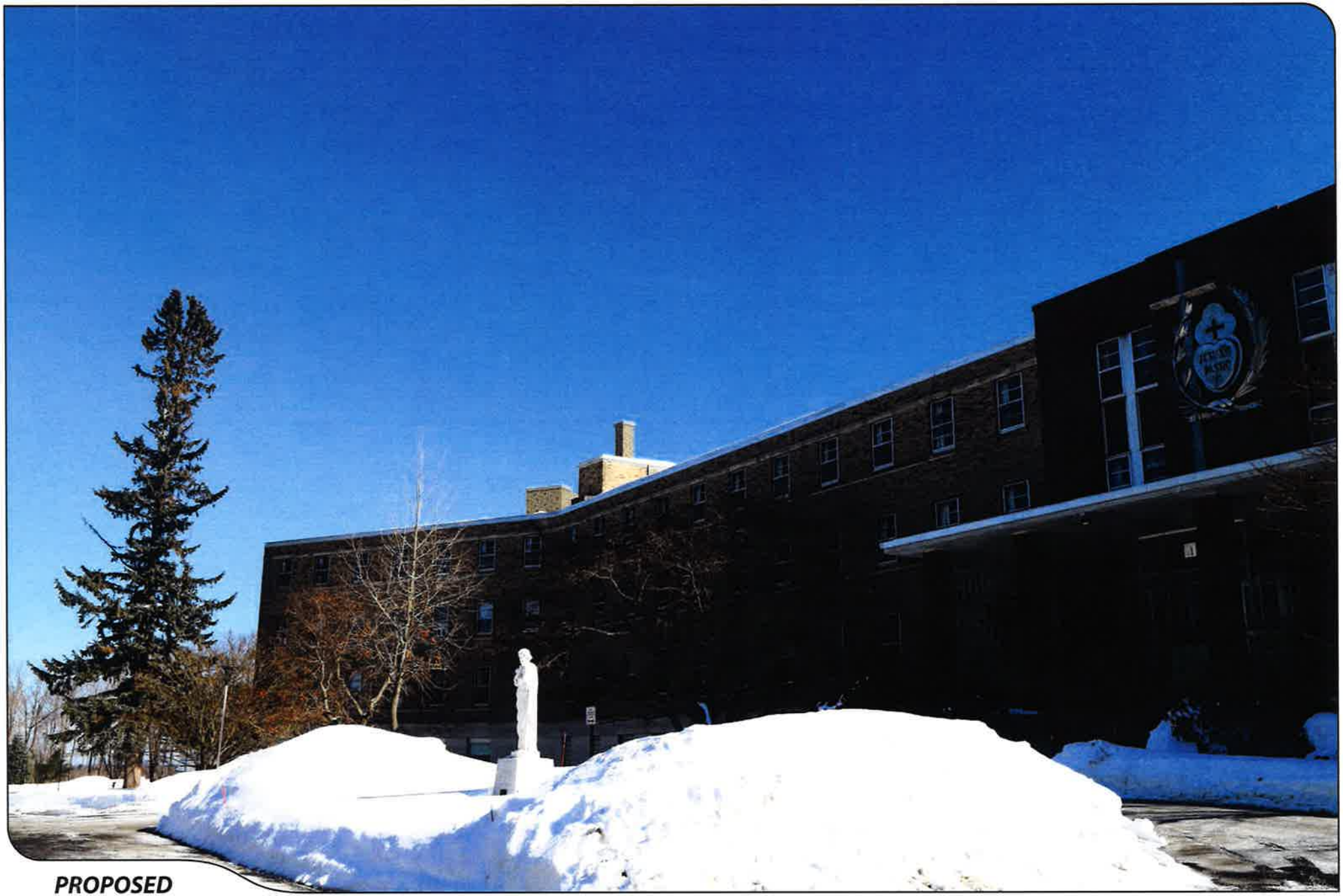


EXISTING

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
9	**HOST PROPERTY (35mm Focal Length)**	**NORTHEAST**	**+/- 226 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

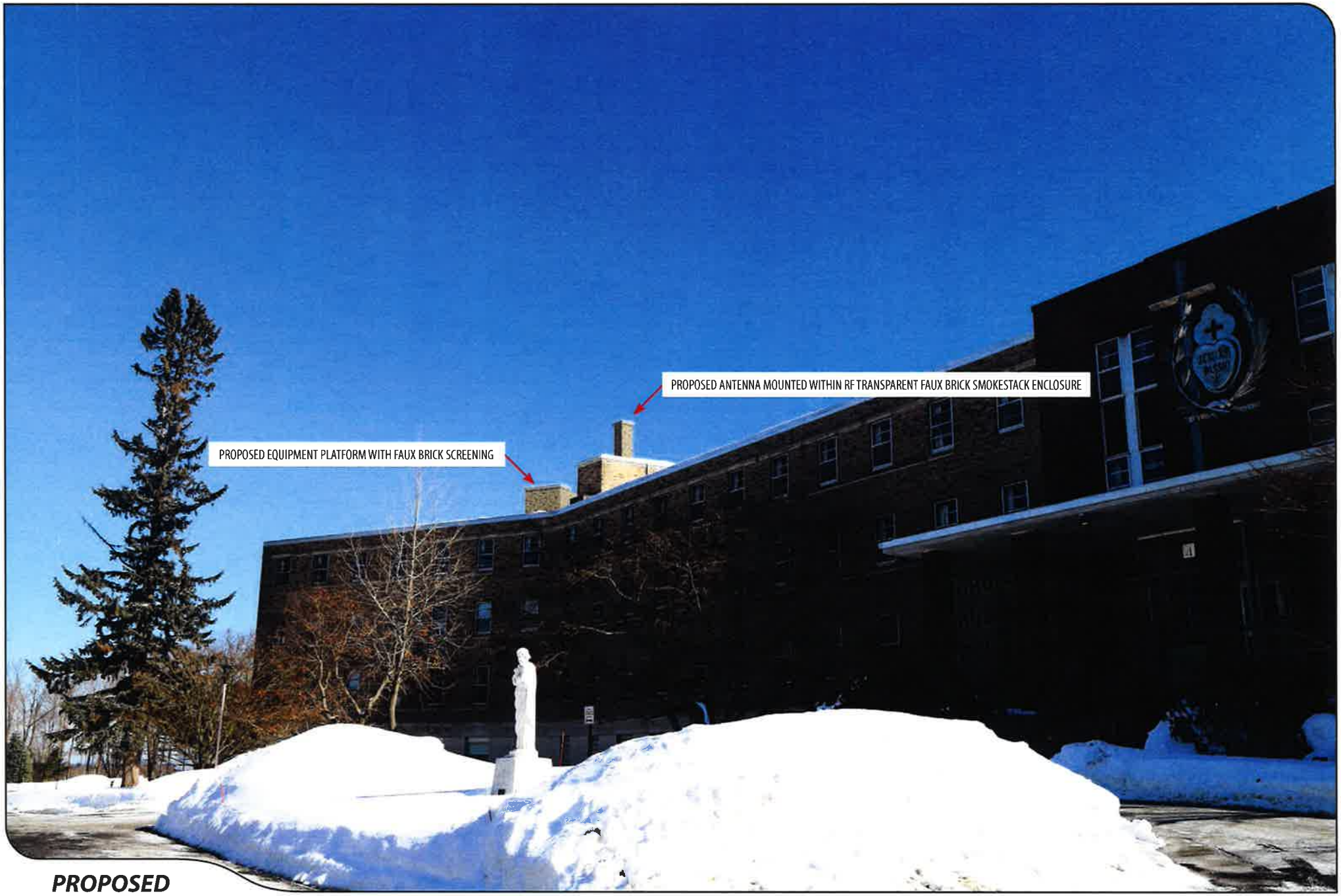


PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
9	**HOST PROPERTY (35mm Focal Length)**	**NORTHEAST**	**+/- 226 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
9	**HOST PROPERTY (35mm Focal Length)**	**NORTHEAST**	**+/- 226 FEET**

ALL-POINTS TECHNOLOGY CORPORATION

verizon

ATTACHMENT 5

Site Name: West Hartford SC 3 CT
Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissable Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW AWS	2145	1	595	595	57	0.0659	1.0	6.59%

Total Percentage of Maximum Permissible Exposure 6.59%

*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.

ATTACHMENT 6

```
**************************************************
                    *            Federal Airways & Airspace
*
                    * Summary Report: Alteration Of Existing Structure
*
                    *               Non-Antenna Structure
*

**************************************************

                    Airspace User: Mark Brauer

                    File: WEST_HARTFORD_SC_3_CT

                    Location:  New Britain, CT

                    Latitude:  41°-44'-9.214"          Longitude: 72°-
46'-19.97"

                    SITE ELEVATION AMSL.....293 ft.
                    STRUCTURE HEIGHT.....93 ft.
                    OVERALL HEIGHT AMSL.....386 ft.

     NOTICE CRITERIA
       FAR 77.9(a): NNR (DNE 200 ft AGL)
       FAR 77.9(b): NNR (DNE Notice Slope)
       FAR 77.9(c): NNR (Not a Traverse Way)
       FAR 77.9:    NNR FAR 77.9 IFR Straight-In Notice Criteria for
4B8
       FAR 77.9:    NNR FAR 77.9 IFR Straight-In Notice Criteria for
HFD
       FAR 77.9(d): NNR (Off Airport Construction)

       NR  = Notice Required
       NNR = Notice Not Required
       PNR = Possible Notice Required (depends upon actual IFR
procedure)
             For new construction review Air Navigation Facilities at
bottom
             of this report.

       If the proposed construction is an alteration to an existing
structure,
       notice requirements may be superceded by the item exemptions
listed below.

       The location and analysis were based upon an existing
structure. However,
       no existing aeronautical study number was identified. If the
'existing'
```

structure penetrates an obstruction surface defined by CFR 77.17, 77.19,
77.21 or 77.23 (see below) it is strongly recommended the FAA be notified
of the 'existing' structure to determine obstruction marking or lighting
requirements. It is not uncommon for the FAA to issue a Determination of
No Hazard (DNH) for an existing structure and modify the airspace to
accommodate the structure, should that be required. If the FAA issues a
DNH enter the aeronautical study number (ASN) in the space provided on the
Airspace Analysis Window Form and re-run Airspace.

No frequencies were identified in this alteration are included in the FAA's
Co-Location Policy published in the Federal Register November 15, 2007.
Therefore, application of the Co-Location Policy notice exemption rule can
not be applied.

OBSTRUCTION STANDARDS
FAR 77.17(a)(1): DNE 499 ft AGL
FAR 77.17(a)(2): DNE - Airport Surface
FAR 77.19(a): DNE - Horizontal Surface
FAR 77.19(b): DNE - Conical Surface
FAR 77.19(c): DNE - Primary Surface
FAR 77.19(d): DNE - Approach Surface
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: 4B8: ROBERTSON FIELD
Type: A RD: 29294.57 RE: 201.6
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: HFD: HARTFORD-BRAINARD
Type: A RD: 31295.64 RE: 13.9
FAR 77.17(a)(1): DNE
FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.
VFR Horizontal Surface: DNE
VFR Conical Surface: DNE
VFR Approach Slope: DNE

VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)
FAR 77.17(a)(3) Departure Surface Criteria (40:1)
DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)
FAR 77.17(a)(4) MOCA Altitude Enroute Criteria
The Maximum Height Permitted is 3172 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT	TYP	NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
0CT5	HEL	ST FRANCIS HOSPITAL	54.9	4.02	+202	
No Impact to Private Landing Facility Structure is beyond notice limit by 19426 feet.						
CT73	HEL	SOUTH MEADOWS	258.93	4.02	+186	
No Impact to Private Landing Facility Structure is beyond notice limit by 19426 feet.						
0CT9	HEL	HARTFORD HOSPITAL	75.15	4.35	+175	
No Impact to Private Landing Facility Structure is beyond notice limit by 21431 feet.						
CT06	HEL	DELTA ONE	57.59	5.94	+365	
No Impact to Private Landing Facility Structure is beyond notice limit by 31092 feet.						

AIR NAVIGATION ELECTRONIC FACILITIES

FAC IDNT	TYPE	ST AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE	APCH BEAR
4B8	CO	Y	A/G	237.66	30452	+126	CT	PALINFIELD	.24	
HFD	VOR/DME	R	114.9	119.44	70454	-463	CT	HARTFORD	-.38	
BDL	RADAR	ON		18.29	77793	+150	CT	BRADLEY INTL	.11	
No Impact. Alteration does not require Notice based upon EMI. The studied location is within 20 NM of a Radar facility.										

The calculated Radar Line-Of-Sight (LOS) distance is: 43 NM.
This location and height is within the Radar Line-Of-Sight.

MAD	VOR/DME	R	110.4	171.91	155343	+166	CT MADISON .06
BAF	VORTAC	R	113.0	5.59	156001	+119	MA BARNES .04
HVN	VOR/DME	R	109.8	190.13	175315	+380	CT NEW HAVEN .12
CEF	VORTAC	R	114.0	21.6	181029	+145	MA WESTOVER .05
CTR	VOR/DME	I	115.1	346.68	208045	-1214	MA CHESTER -.33

CFR Title 47, §1.30000-§1.30004
AM STUDY NOT REQUIRED: Structure is not near a FCC licensed AM station.
Movement Method Proof as specified in §73.151(c) is not required.
Please review 'AM Station Report' for details.

Nearest AM Station: WLAT @ 3817 meters.

Airspace® Summary Version 15.7.400

07-21-2015
14:16:36

ATTACHMENT 7

Robinson + Cole

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

August 17, 2015

Via Certificate of Mailing

Kathleen A. Eagen, Town Manager
Town of Farmington
1 Monteith Drive
Farmington, CT 06032-1053

Re: **Installation of a Small Cell Telecommunications Facility at 303 Middle Road, Farmington, Connecticut**

Dear Ms. Eagen:

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 install a "small cell" telecommunications facility at 303 Middle Road in Farmington (the "Property").

The proposed "small cell" would consist of a tower attached to the roof of the building on the Property. The tower would support a single canister-type antenna and a Remote Radio Head ("RRH"). The tower antenna and RRH will extend approximately 9 feet above an existing mechanical penthouse on the roof and will be concealed inside a faux chimney structure. Equipment cabinets associated with the small cell facility will be located on a small steel platform on the roof. The equipment and platform will be surrounded by a screen wall. The chimney and equipment screen wall have been designed to match the brick finish of the building.

A copy of Cellco's Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of the Petition.

Robinson+Cole

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

Sincerely,

Kenneth C. Baldwin

KCB/kmd
Attachment

Robinson + Cole

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

August 17, 2015

Via Certificate of Mailing

Scott Slifka, Mayor
Town of West Hartford
50 South Main Street
West Hartford, CT 06107

Re: **Installation of a Small Cell Telecommunications Facility at 303 Middle Road, Farmington, Connecticut**

Dear Mayor Slifka:

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 install a "small cell" telecommunications facility at 303 Middle Road in Farmington (the "Property").

The proposed "small cell" would consist of a tower attached to the roof of the building on the Property. The tower would support a single canister-type antenna and a Remote Radio Head ("RRH"). The tower antenna and RRH will extend approximately 9 feet above an existing mechanical penthouse on the roof and will be concealed inside a faux chimney structure. Equipment cabinets associated with the small cell facility will be located on a small steel platform on the roof. The equipment and platform will be surrounded by a screen wall. The chimney and equipment screen wall have been designed to match the brick finish of the building.

A copy of Cellco's Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of the Petition.

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

Sincerely,

Kenneth C. Baldwin

KCB/kmd
Attachment

Robinson + Cole

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

August 17, 2015

Via Certificate of Mailing

Passionist Fathers of Connecticut, Inc.
303 Tunxis Road
West Hartford, CT 06107

Re: **Installation of a Small Cell Telecommunications Facility at 303 Middle Road, Farmington, 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 install a "small cell" telecommunications facility at 303 Middle Road in Farmington (the "Property").

The proposed "small cell" would consist of a tower attached to the roof of the building on the Property. The tower would support a single canister-type antenna and a Remote Radio Head ("RRH"). The tower antenna and RRH will extend approximately 9 feet above an existing mechanical penthouse on the roof and will be concealed inside a faux chimney structure. Equipment cabinets associated with the small cell facility will be located on a small steel platform on the roof. The equipment and platform will be surrounded by a screen wall. The chimney and equipment screen wall have been designed to match the brick finish of the building.

A copy of Cellco's Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of the Petition.

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

Sincerely,

Kenneth C. Baldwin

KCB/kmd
Attachment

ATTACHMENT 8

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

August 17, 2015

Via Certificate of Mailing

«Name_and_Address»

Re: **Notice of Intent to File a Petition for Declaratory Ruling with the Connecticut Siting Council for the Installation of a "Small Cell" Telecommunications Facility at 303 Middle Road, Farmington, 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 install a new "small cell" telecommunications facility at 303 Middle Road in Farmington (the "Property").

The proposed "small cell" would consist of a tower attached to the roof of the building on the Property. The tower would support a single canister-type antenna and a Remote Radio Head ("RRH"). The tower antenna and RRH will extend approximately 9 feet above an existing mechanical penthouse on the roof and will be concealed inside a faux chimney structure. Equipment cabinets associated with the small cell facility will be located on a small steel platform on the roof. The equipment and platform will be surrounded by a screen wall. The chimney and equipment screen wall have been designed to match the brick finish of the building. A copy of Cellco's Petition is attached for your review.

This notice is being sent to you because you are listed 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

303 MIDDLE ROAD, FARMINGTON, CONNECTICUT

Farmington

	Property Address	Owner's and Mailing Address
1.	Shady Lane	Town of Farmington 1 Monteith Drive Farmington, CT 06032
2.	47 Shady Lane	Cecilia B. Maliszewski 47 Shady Lane Farmington, CT 06032
3.	45 Shady Lane	Jane E. Hazard 45 Shady Lane Farmington, CT 06032
4.	93 Woodruff Road	Craig A. Fowler 93 Woodruff Road Farmington, CT 06032
5.	94 Woodruff Road	Mitchelle G. McGrath 94 Woodruff Road Farmington, CT 06032
6.	90 Woodruff Road	Julie Ann Anopolsky 90 Woodruff Road Farmington, CT 06032
7.	88 Woodruff Road	Keith M. Juzwik 88 Woodruff Road Farmington, CT 06032
8.	84 Woodruff Road	Andrew and Kara M. Hopko 84 Woodruff Road Farmington, CT 06032
9.	80 Woodruff Road	Jadwiga and Anthony Kruk, Jr. 80 Woodruff Road Farmington, CT 06032

	Property Address	Owner's and Mailing Address
10.	83 Woodruff Road	Peter R. and Janet B. Gothers 83 Woodruff Road Farmington, CT 06032
11.	79 Woodruff Road	Frank B. Gallo 79 Woodruff Road Farmington, CT 06032
12.	77 Woodruff Road	Bruce and Lori Gallo 77 Woodruff Road Farmington, CT 06032
13.	73 Woodruff Road	Frank and Donata Iacovella, Et Als 73 Woodruff Road Farmington, CT 06032
14.	67 Woodruff Road	George A. and Lois J. White, Jr. 67 Woodruff Road Farmington, CT 06032
15.	65 Woodruff Road	Sanjay and Jyoti Mittal 65 Woodruff Road Farmington, CT 06032
16.	61 Woodruff Road	Joseph A. and Mary R. Bonanno, Trustees 61 Woodruff Road Farmington, CT 06032
17.	53 Woodruff Road	Marian Anton 53 Woodruff Road Farmington, CT 06032
18.	51 Woodruff Road	William J. and Laura W. Lynch 51 Woodruff Road Farmington, CT 06032
19.	45 Woodruff Road	Kimberly A. Zook and John J. Furmanek 45 Woodruff Road Farmington, CT 06032
20.	41 Woodruff Road	Boris A. and Malvina V. Seinyan 41 Woodruff Road Farmington, CT 06032

	Property Address	Owner's and Mailing Address
21.	23 Woodruff Road	George and Sima Frolov 23 Woodruff Road Farmington, CT 06032
22.	21 Woodruff Road	Tiffany Nguyen and Michael Senh 21 Woodruff Road Farmington, CT 06032
23.	267 Tunxis Road	Bruce C. and Jane H. Cowdrey 267 Tunxis Road Farmington, CT 06032
24.	271 Tunxis Road	Guy L. and Flora A. Long 271 Tunxis Road Farmington, CT 06032
25.	279 Tunxis Road	Manuel B. and Maria I. Prazeres 279 Tunxis Road Farmington, CT 06032

West Hartford

26.	282 Tunxis Road	Leonardo Rivera 282 Tunxis Road West Hartford, CT 06107
27.	286 Tunxis Road	Sharon Bidstrup 286 Tunxis Road West Hartford, CT 06107
28.	290 Tunxis Road	Felcita and Vincent Irwin, Tr. 290 Tunxis Road West Hartford, CT 06107
29.	294 Tunxis Road	Zachary J. and Joan J. Karas 39 Smallwood Road West Hartford, CT 06107
30.	5 Creekside Lane	Mei Wu and Li Haiping 5 Creekside Lane, Unit #8 West Hartford, CT 06107

31.	6 Creekside Lane	Maryann and Arthur W. Detore 6 Creekside Lane West Hartford, CT 06107
32.	7 Creekside Lane	Scott W. Schuetz 7 Creekside Lane West Hartford, CT 06107
33.	8 Creekside Lane	Emily Holcomb 8 Creekside Lane West Hartford, CT 06107
34.	9 Creekside Lane	Marguerita and Robert Rose 9 Creekside Lane West Hartford, CT 06107
35.	10 Creekside Lane	Michelle Patchen 10 Creekside Lane, Unit #3 West Hartford, CT 06107
36.	11 Creekside Lane	Thomas Sullivan and Jennifer Capriola 11 Creekside Lane West Hartford, CT 06107
37.	12 Creekside Lane	Yvonne and Peter Pask 12 Creekside Lane West Hartford, CT 06107
38.	306 Tunxis Road	Leonardo and Suzanne Gugliotti 306 Tunxis Road West Hartford, CT 06107
39.	4 Chestnut Hill Road	Ann E. Reuman 4 Chestnut Hill Road West Hartford, CT 06107
40.	5 Chestnut Hill Road	Hamid Ehsani and Kangwanna Kadzo 5 Chestnut Hill Road West Hartford, CT 06107
41.	316 Tunxis Road	Ralph and Donna Christiana 316 Tunxis Road West Hartford, CT 06107
42.	320 Tunxis Road	Lawrence and Marylin Wolfson 320 Tunxis Road West Hartford, CT 06107

43.	322 Tunxis Road	Edward R. Sampt 322 Tunxis Road West Hartford, CT 06107
44.	326 Tunxis Road	Gary Toper 326 Tunxis Road West Hartford, CT 06107
45.	328 Tunxis Road	Justin and Allyson Duffy 328 Tunxis Road West Hartford, CT 06107
46.	330 Tunxis Road	Melissa Montagino 330 Tunxis Road West Hartford, CT 06107
47.	334 Tunxis Road	Veronica Adetola 334 Tunxis Road West Hartford, CT 06107
48.	336 Tunxis Road	Laura McLelland and Daniel Jepperson 336 Tunxis Road West Hartford, CT 06107
49.	340 Tunxis Road	Kathleen McDonald and Paul Sherbacow 340 Tunxis Road West Hartford, CT 06107
50.	378 Tunxis Road	State of Connecticut Flood Control Environmental Protection 79 Elm Street, 6th Floor Hartford, CT 06106