

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

IN RE: :
: :
A PETITION OF CELLCO PARTNERSHIP : PETITION NO. _____
D/B/A VERIZON WIRELESS FOR A : :
DECLARATORY RULING ON THE NEED TO : :
OBTAIN A SITING COUNCIL CERTIFICATE : :
FOR THE INSTALLATION OF A SMALL : :
CELL TELECOMMUNICATIONS FACILITY : :
ATTACHED TO A BUILDING AT 140 : :
ROUTE 32, FRANKLIN, CONNECTICUT : OCTOBER 6, 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, attached to an abandoned grain elevator structure at 140 Route 32 in Franklin, Connecticut (the “Property”). The structure and Property are owned by D.W. Holdings, LLC. Cellco has designated this site as its North Franklin SC2 Facility.

II. Factual Background

The Property is a 6.72-acre parcel on the westerly side of Route 32 in Franklin. The Property is zoned C-2 Commercial and is surrounded by commercial and industrial uses to the north, west and south. The undeveloped land to the east of the Property is zoned Industrial. *See*

Attachment 1 – Site Vicinity Map and Site Schematic (Aerial Photograph). Cellco is licensed to provide wireless telecommunications services in the 700 MHz, 850 MHz, 1900 MHz and 2100 MHz frequency ranges in the Franklin area and throughout the State of Connecticut. Initially, the proposed North Franklin SC2 Facility will provide wireless service in Cellco’s 2100 MHz frequency range only and provide capacity relief to Cellco’s surrounding cell sites.

III. Proposed “Small Cell” Facility

The proposed North Franklin SC2 Facility would consist of a small stub tower, attached to the side of the 125-foot tall abandoned grain elevator structure. The tower would support a single canister-type small cell antenna and a Remote Radio Head (“RRH”) and would extend approximately 5’-4” above the top of the structure (a total of approximately 130’-5” above ground level). Equipment associated with the North Franklin SC2 Facility will be located in a lower level utility room inside an adjacent building. Power and telephone service to the North Franklin SC2 Facility will extend from existing service inside the building. (See Cellco’s Project Plans included in Attachment 2). Specifications for the “small cell” antenna (Commscope Model NH180QS-DG-F0M) and RRH (Model 2X60-AWS) 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 towers¹ in the state to avoid “a significant impact on the environment and ecology of the State of

¹ Tower is defined as a structure, whether free standing or attached to a building or another structure, that has a height greater than its diameter and that is high relative to its surroundings and used to support antennas for sending or receiving radio signals. (See R.C.S.A. Section 16-50j-2a(23)).

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 tower attached to the abandoned grain elevator structure at the Property, supporting a single “small cell” canister-type antenna and RRH and the placement of an equipment inside an adjacent building, will not involve a significant alteration in the physical and environmental characteristics of the Property or the surrounding commercial and residential area. There is no ground disturbance associated with the proposed installation as all improvements are located either on or inside existing buildings.

2. Visual Effects

The installation of a small tower, a single canister-type antenna and RRH attached to the abandoned grain elevator at the Property, would have minimal visual effects on the Property and its surroundings. (See Limited Visual Assessment and Photo-Simulations (“Visual Report”) included in Attachment 4). As concluded in the Visual Report, visibility of the proposed small cell installation would be limited primarily to locations along Route 32 within a few hundred feet of the Property. According to the Visual Report the proposed small cell facility would have little effect on existing views in the area.

3. FCC Compliance

Radio frequency (“RF”) emissions from the proposed small cell installation will be far below the standard adopted by the Federal Communications Commission (“FCC”). Included in Attachment 5 is a worst-case General Power Density table demonstrating that Cellco’s “small cell” facility will operate at 0.26% of the FCC safety standard.

4. FAA Summary Report

Included in Attachment 6 is a Federal Airways & Airspace Summary Report verifying that the new tower, antenna and RRH installation attached to the grain elevator 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 the Town, Property Owner and Abutting Landowners

On October 6, 2015, a copy of this Petition was sent to Franklin’s First Selectman Richard Matters and D.W. Holdings, LLC, the owner of the Property. Included in Attachment 7 is a copy of the letters sent to Mr. Matters and D.W. Holdings, LLC. A copy of the 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 received a copy of the Petition is 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 tower, attached to the building, and supporting a small cell canister antenna and a RRH 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  _____

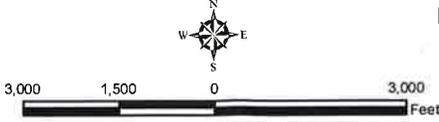
Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



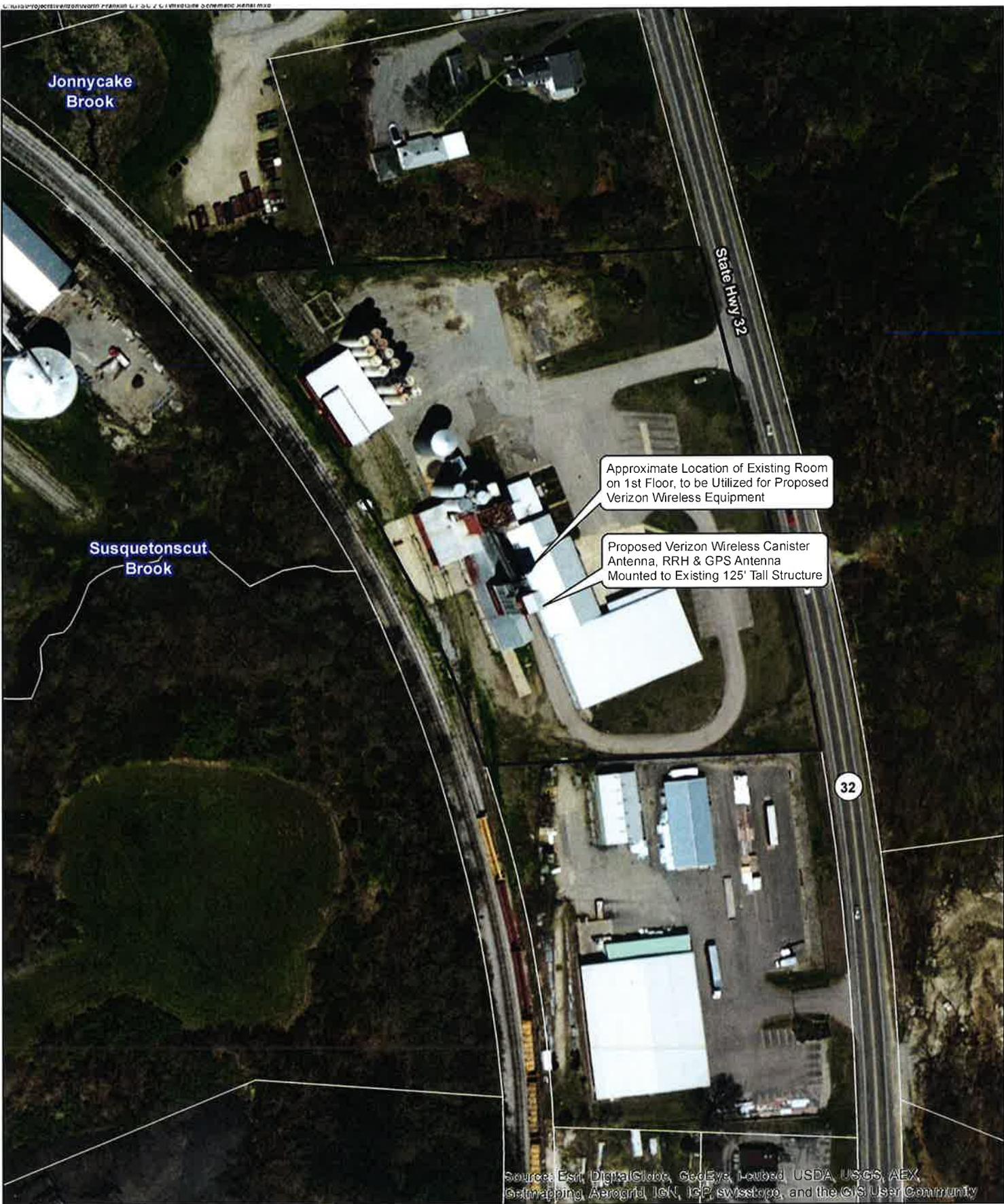
- Legend**
- Proposed Verizon Wireless Small Cell Facility
 - Surrounding Verizon Wireless Facilities
 - Municipal Boundary
 - Watercourse
 - Waterbody

Base Map Source: ESRI World Imagery, NAIP 7/12/2014
 Map Scale: 1 inch = 3,000 feet
 Map Date: August 2015



Site Vicinity Map

Proposed Small Cell Facility
 North Franklin CT SC 2
 140 Route 32
 Franklin, Connecticut

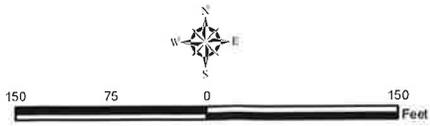


Source: Esri, DigitalGlobe, GeoEye, Earthstar (USA), USGS, AeroGRID, IGN, SVP, Swisstopo, and the GIS User Community

Legend
 □ Subject Property

Site Schematic
 Proposed Small Cell Facility
 North Franklin CT SC 2
 140 Route 32
 Franklin, Connecticut

Map Notes:
 Base Map Source: ESRI World Imagery, NAIP 7/12/2014
 Map Scale: 1 inch = 150 feet
 Map Date: August 2015

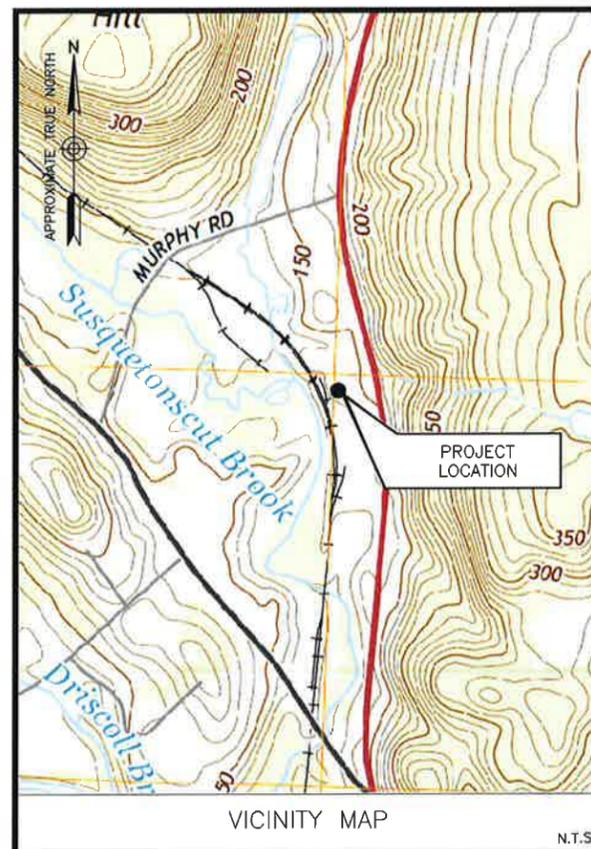




ATTACHMENT 2

CELLCO PARTNERSHIP d/b/a **verizon**wireless

PROPOSED WIRELESS FACILITY
SITE NAME: NORTH FRANKLIN CT SC 2
140 ROUTE 32
FRANKLIN, CT 06254



DIRECTIONS FROM 99 EAST RIVER DRIVE, EAST HARTFORD, CT:
 TAKE RAMP LEFT FOR I-84 E/US-6 E TOWARD NORWICH. AT EXIT 55, TAKE RAMP RIGHT FOR CT-2 EAST TOWARD NORWICH/NEW LONDON. TAKE EXIT 27 FOR CT-32 N TOWARD YANTIC/WILLIMANTIC. TAKE A SHARP RIGHT ONTO CT-32 N/W TOWN ST. SITE IS ON THE LEFT.

SITE COORDINATES:
 LATITUDE: 41-34'-43.261" N
 LONGITUDE: 72-07'-59.385" W
 (PER FAA 1A SURVEY)

ELEVATION DATA
 GRADE ELEVATION AT BUILDING = 142'± A.M.S.L.
 (PER FAA 1A SURVEY)

ELEVATION (TO TOP OF ANTENNA)
 ELEVATION = 130'-5"± A.G.L., 272'-5"± A.M.S.L.

PROJECT INFORMATION

- THE SCOPE OF WORK SHALL INCLUDE:
1. THE UTILIZATION OF AN EXISTING ROOM INSIDE A BUILDING FOR PROPOSED CELLCO PARTNERSHIP EQUIPMENT.
 2. THE INSTALLATION OF ONE (1) PROPOSED CELLCO PARTNERSHIP ANTENNA AND ASSOCIATED APPURTENANCES ARE TO BE MOUNTED TO THE EXISTING TOWER AT A CENTERLINE ELEVATION OF 129.2'± A.G.L.
 3. THE INSTALLATION OF A PROPOSED CABLE BRIDGE & VERTICAL CABLE TRAY WHICH SHALL BE MOUNTED TO THE EXISTING BUILDING.
 4. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2009 CONNECTICUT SUPPLEMENT.
- SCOPE OF WORK

SITE NAME:
 NORTH FRANKLIN CT SC 2

SITE ADDRESS:
 140 ROUTE 32
 FRANKLIN, CT 06254
 NEW LONDON COUNTY

PROPERTY OWNER:
 D W HOLDINGS LLC
 140 ROUTE 132
 FRANKLIN, CT 06254

APPLICANT:
 CELLCO PARTNERSHIP
 d/b/a VERIZON WIRELESS
 99 EAST RIVER DRIVE
 EAST HARTFORD, CT 06108

SITE ACQUISITION CONTACT:
 JAMES SMITH
 STRUCTURE CONSULTING GROUP
 (860) 608-0028

LEGAL/REGULATORY COUNSEL:
 KENNETH C. BALDWIN, ESQ.
 ROBINSON & COLE
 (860) 275-8345

PROJECT INFORMATION

SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS MAP
C-2	SITE PLAN
C-3	EAST ELEVATION
SHEET INDEX	

CELLCO PARTNERSHIP
 d/b/a **verizon**wireless

**NORTH FRANKLIN CT
 SC 2**

CSC DRAWINGS

B	10/02/15	FOR SUBMITTAL
A	08/14/15	FOR COMMENT

Dewberry®
 Dewberry Engineers Inc.
 600 PARSHIPPANY ROAD
 SUITE 301
 PARSHIPPANY, NJ 07054
 PHONE: 973.739.9400
 FAX: 973.739.9710

JIANG YU, P.E.
 CONNECTICUT LICENSE NO. 0023222

DRAWN BY: ALH

REVIEWED BY: PD

CHECKED BY: GHN

PROJECT NUMBER: 50067815

JOB NUMBER: 50072613

SITE ADDRESS

140 ROUTE 32
 FRANKLIN, CT 06254

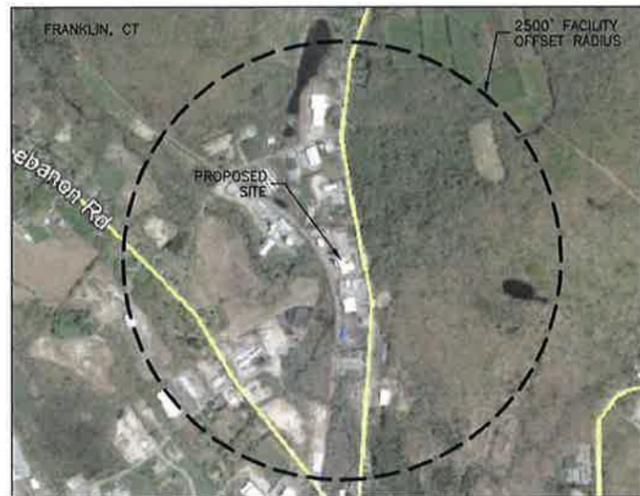
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

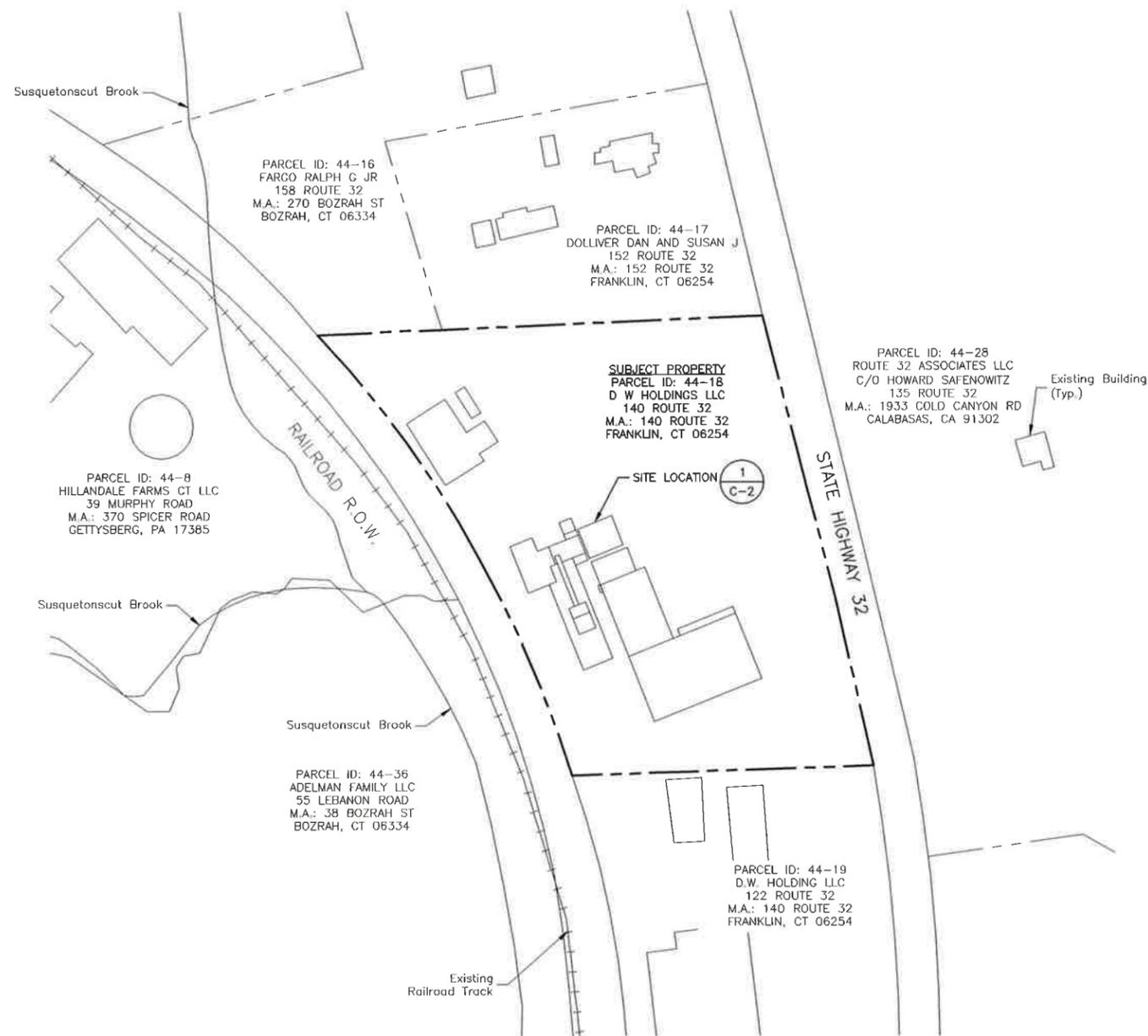
APPROXIMATE TRUE NORTH



MUNICIPALITY NOTIFICATION LIMIT MAP
SCALE: N.T.S.

1

APPROXIMATE TRUE NORTH



NOTES:

- 1. ABUTTERS MAP BASED ON INFORMATION OBTAINED FROM THE TOWN OF FRANKLIN GEOGRAPHIC INFORMATION SYSTEM.

ABUTTERS MAP

SCALE: 1"=200' FOR 11"x17"
1"=100' FOR 22"x34"



2

CELLCO
PARTNERSHIP
d/b/a **verizon**wireless

**NORTH FRANKLIN CT
SC 2**

CSC DRAWINGS

B	10/02/15	FOR SUBMITTAL
A	08/14/15	FOR COMMENT



Dewberry Engineers Inc.

800 PARSIPPANY ROAD
SUITE 301
PARSIPPANY, NJ 07054
PHONE: 973.739.9400
FAX: 973.739.9710

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SITE ADDRESS

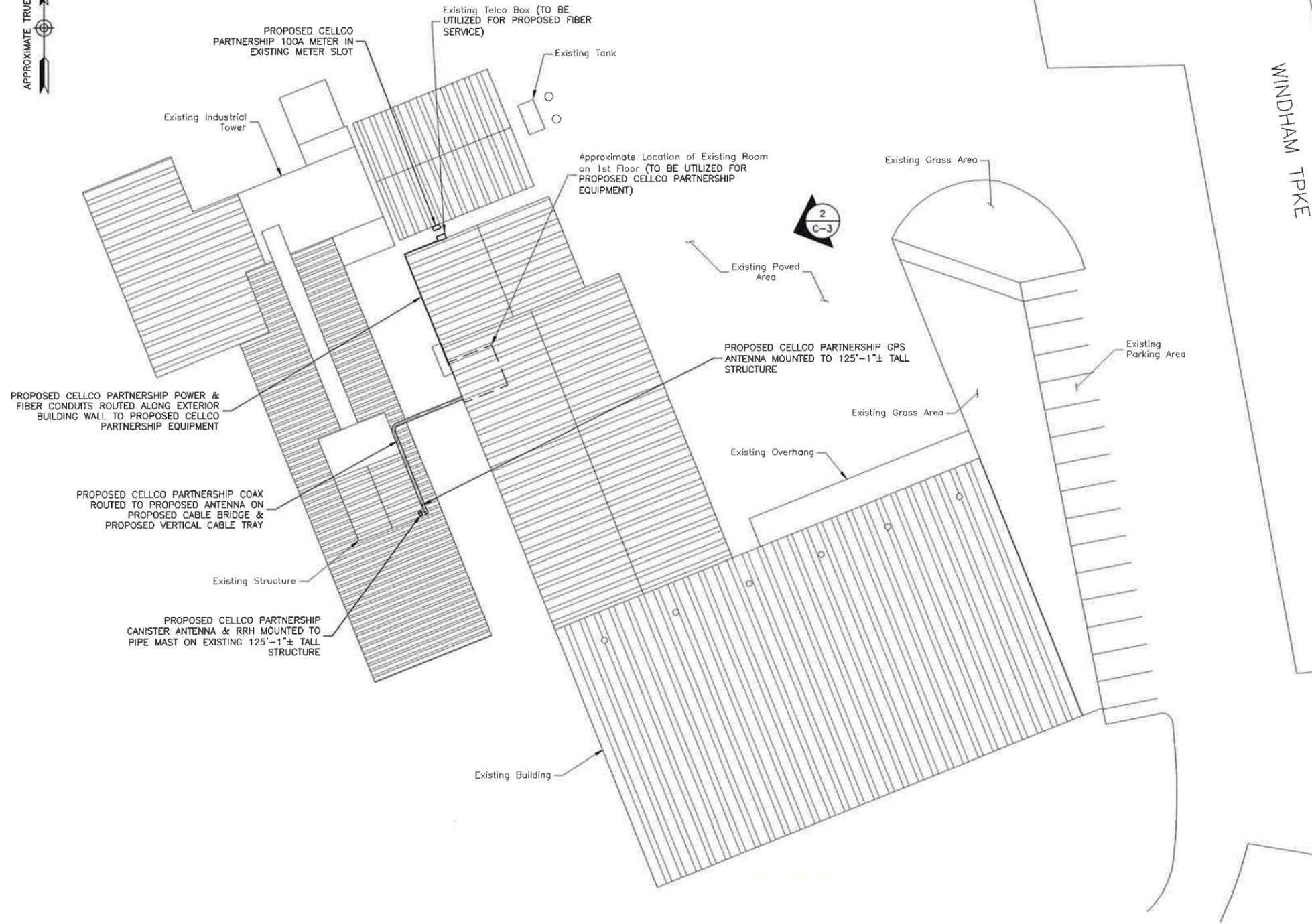
140 ROUTE 32
FRANKLIN, CT 06254

SHEET TITLE

ABUTTERS MAP

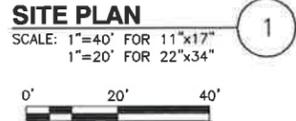
SHEET NUMBER

C-1



WINDHAM TPKE

- NOTES:**
1. NORTH SHOWN AS APPROXIMATE.
 2. SOME EXISTING AND PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
 3. THESE DRAWINGS ARE PROVIDED FOR SITTING COUNCIL REVIEW. CONSTRUCTION LEVEL DRAWINGS WILL BE DEVELOPED SUBSEQUENT TO THE APPROVAL OF THESE DRAWINGS.
 4. LOCATION & ORIENTATION OF ALL ANTENNAS, COAX & EQUIPMENT PENDING A STRUCTURAL ANALYSIS.
 5. GROUND WILL BE TO PROPOSED (2) DRIVEN GROUND RODS.
 6. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 05/07/15.



CELLCO PARTNERSHIP
d/b/a **verizon**wireless

**NORTH FRANKLIN CT
SC 2**

CSC DRAWINGS

B	10/02/15	FOR SUBMITTAL
A	08/14/15	FOR COMMENT

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PARSIPPANY, NJ 07054
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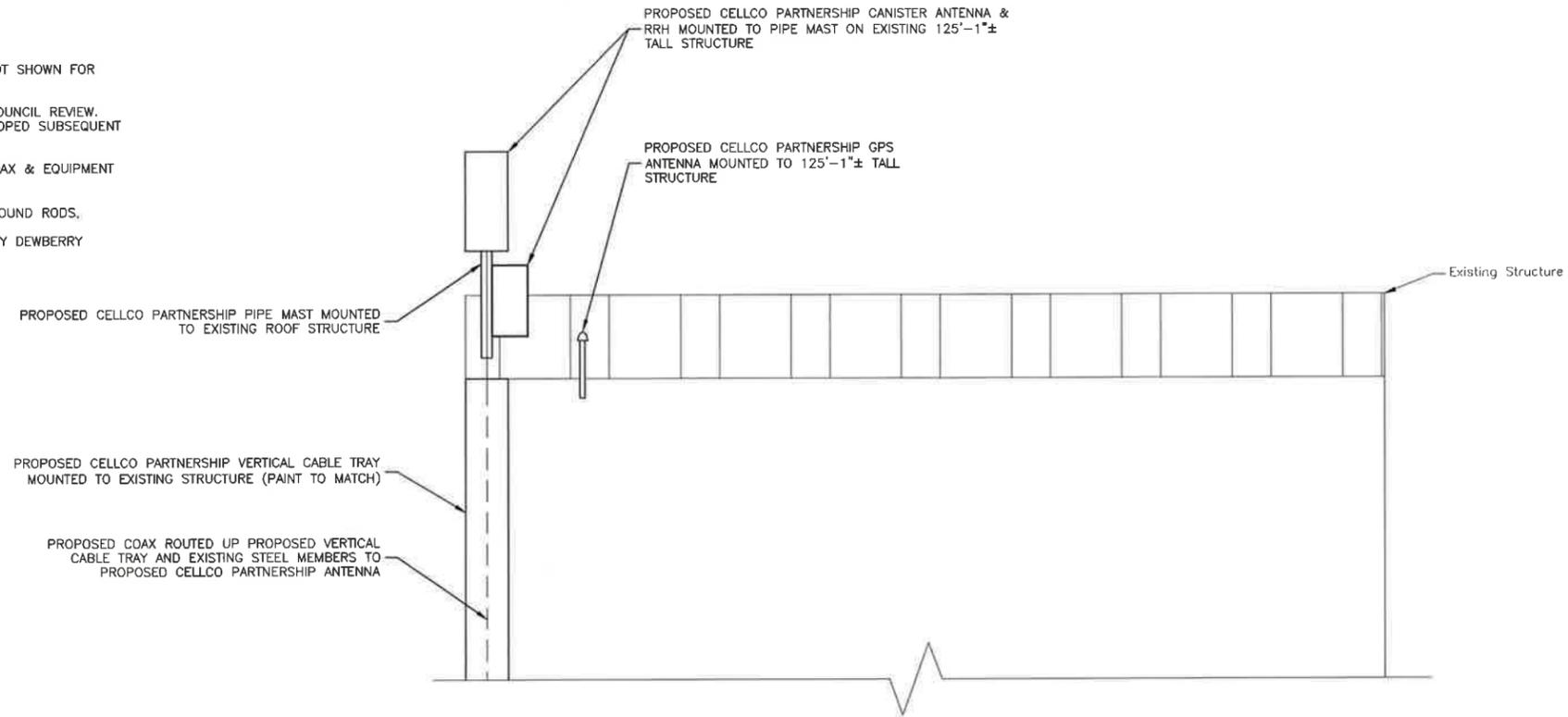
SITE ADDRESS
140 ROUTE 32
FRANKLIN, CT 06254

SHEET TITLE
SITE PLAN
SHEET NUMBER

C-2

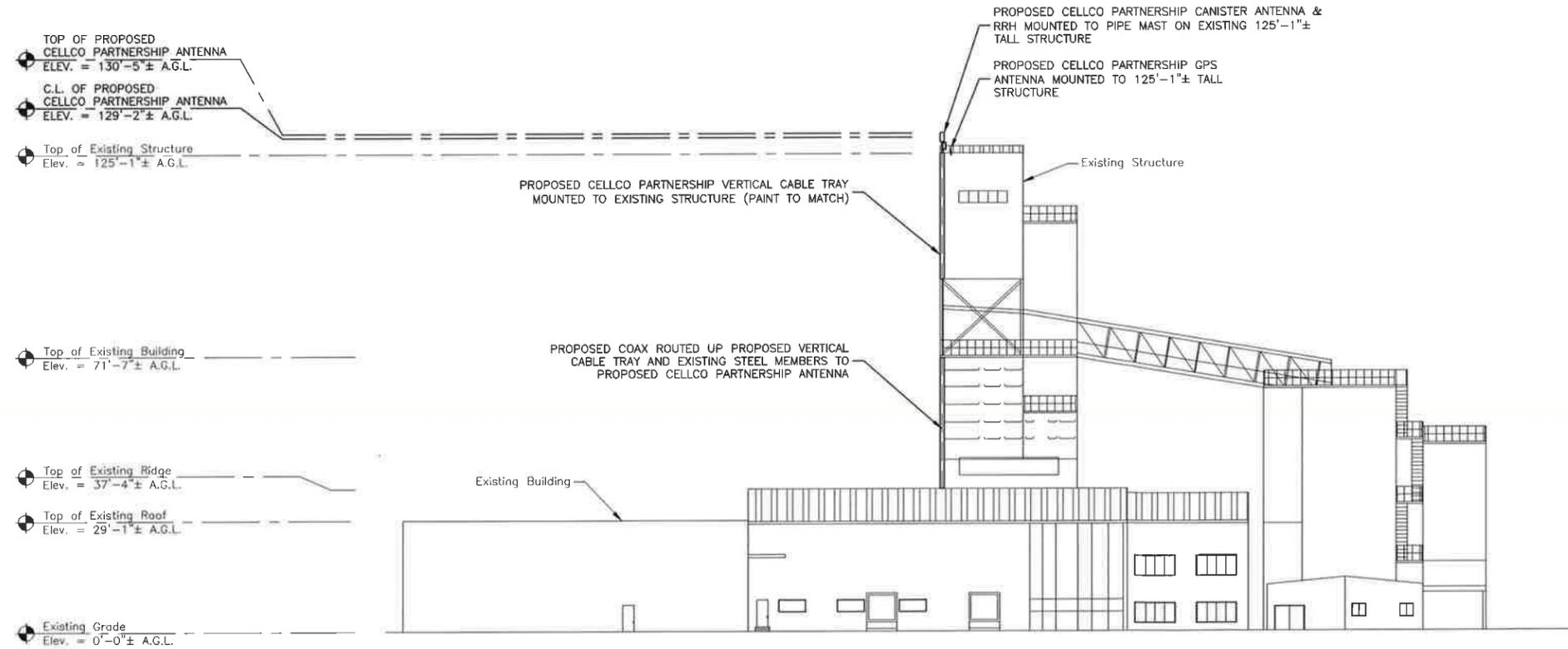
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6. SITE PLAN & ELEVATION BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 05/07/15.



ANTENNA & RRH MOUNTING DETAIL 1

SCALE: N.T.S.



EAST ELEVATION 2

SCALE: 1"=40' FOR 11"x17"
1"=20' FOR 22"x34"



CELLCO
PARTNERSHIP
d/b/a **verizon**wireless

**NORTH FRANKLIN CT
SC 2**

CSC DRAWINGS

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JOB NUMBER: 50072613

SITE ADDRESS

140 ROUTE 32
FRANKLIN, CT 06254

SHEET TITLE

EAST ELEVATION

SHEET NUMBER

C-3

ATTACHMENT 3

Product Specifications

COMMSCOPE®

NH180QS-DG-F0M

Andrew® Dualband half Quasi omni Metro Cell Antenna, 698-896 and 1710-2170 MHz with fixed tilt in the low band and manual tilt in the high band. Contains internal diplexer and active GPS L1 band antenna

POWERED BY



Electrical Specifications

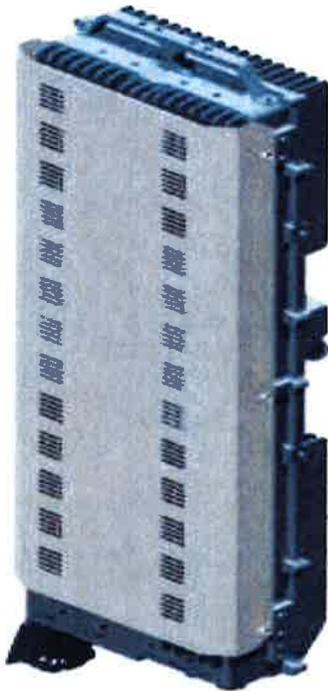
Frequency Band, MHz	698-806	806-896	1710-1880	1850-1990	1920-2170
Gain, dBi	6.0	6.8	9.7	9.7	9.9
Beamwidth, Horizontal, degrees	193	180	181	182	179
Beamwidth, Vertical, degrees	36.8	33.9	15.3	14.1	13.3
Beam Tilt, degrees	0	0	0-16	0-16	0-16
USLS, dB	14	14	9	10	9
Isolation, dB	25	25	25	25	25
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	125	125	125	125	125
Polarization	±45°	±45°	±45°	±45°	±45°

Mechanical Specifications

Color Radome Material	Light gray ASA, UV stabilized
Connector Interface Location Quantity	7-16 DIN Female Bottom 2
GPS Connector Interface Quantity	4.1-9.5 DIN Female 1
Wind Loading, maximum	167.0 N @ 150 km/h 37.5 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph
Antenna Dimensions, L x OD	728.0 mm x 305.0 mm 28.7 in x 12.0 in
Net Weight	11.5 kg 25.4 lb

ALCATEL-LUCENT WIRELESS PRODUCT DATASHEET RRH2X60-AWS FOR BAND 4 APPLICATIONS

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.

SUPERIOR RF PERFORMANCE

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.

OPTIMIZED TCO

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.

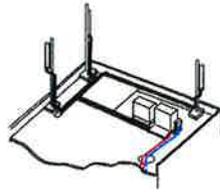
EASY INSTALLATION

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.

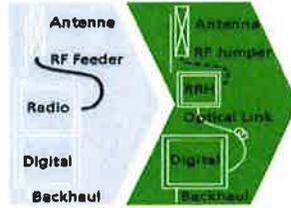
The limited space available in some sites may prevent the installation of traditional single-cabinet BTS equipment. However, many of these sites can host an Alcatel-Lucent RRH2x60-AWS installation, providing more flexible site selection and improved network quality along with greatly reduced installation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

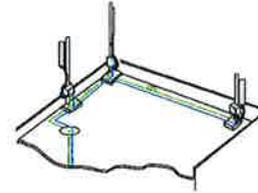
Installation can easily be done by a single person as the Alcatel-Lucent RRH2x60-AWS is compact and weighs about 20 kg, eliminating the need for a crane to hoist the BTS cabinet to the rooftop. A site can be in operation in less than one day.



Macro



RRH for space-constrained cell sites



Distributed

FEATURES

- 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

BENEFITS

- 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.

TECHNICAL SPECIFICATIONS

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 daisy chaining 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

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ATTACHMENT 4

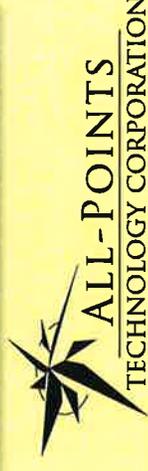
Limited Visual Assessment and Photo-Simulations

NORTH FRANKLIN SC2
140 ROUTE 32
NORTH FRANKLIN, CT 06254



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

Prepared for Verizon Wireless



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 140 Route 32 in Franklin, Connecticut (the "Property").

Project Setting

The Property is located west of Route 32 and is currently developed with a materials storage yard. The proposed Facility would include the installation of a single canister antenna, remote radio head ("RRH") and GPS antenna pipe-mounted to the top of a 125± foot tall grain elevator. The antenna would extend approximately four (4) feet above the existing roof. Associated cabling would be routed within conduit up the east side of the structure and painted to match the façade. Ground equipment would be located within an adjacent building's first floor.

Methodology

On August 10, 2015, APT personnel conducted a field reconnaissance to photo-document existing conditions. Four (4) nearby locations were selected to depict 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, with lens set to 50 mm.

"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

Three-dimensional computer models were developed for the building and proposed small cell components from AutoCAD information. Photographic simulations were then generated to portray scaled renderings of the proposed installation. Using field data, site plan information and image editing software, the proposed Facility was scaled to the correct location and height, relative to the existing structure and surrounding area. For presentation purposes in this report, all of the photographs were produced in an approximate 7-inch by 10.5-inch format². A photolog map and copies of the existing conditions and photo-simulations are attached.

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

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.

Conclusions

The visibility of the proposed installation would be limited primarily to locations along Route 32 within a few hundred feet of the Property. The structure is set back from the road nearly 300 feet. As can be seen in photographs 2 through 4 of the attachments, the proposed installation will be nearly indistinguishable from other existing infrastructure affixed to the grain elevator superstructure. Brief, more distant views may be achieved from along a short stretch of Route 87 (over 0.3 mile away) but the views would be fleeting at best with extensive intervening industrial infrastructure in the viewshed. Based on the results of this assessment, it is our opinion that the proposed installation of Verizon Wireless equipment at the Property would have little effect on existing views.

ATTACHMENTS

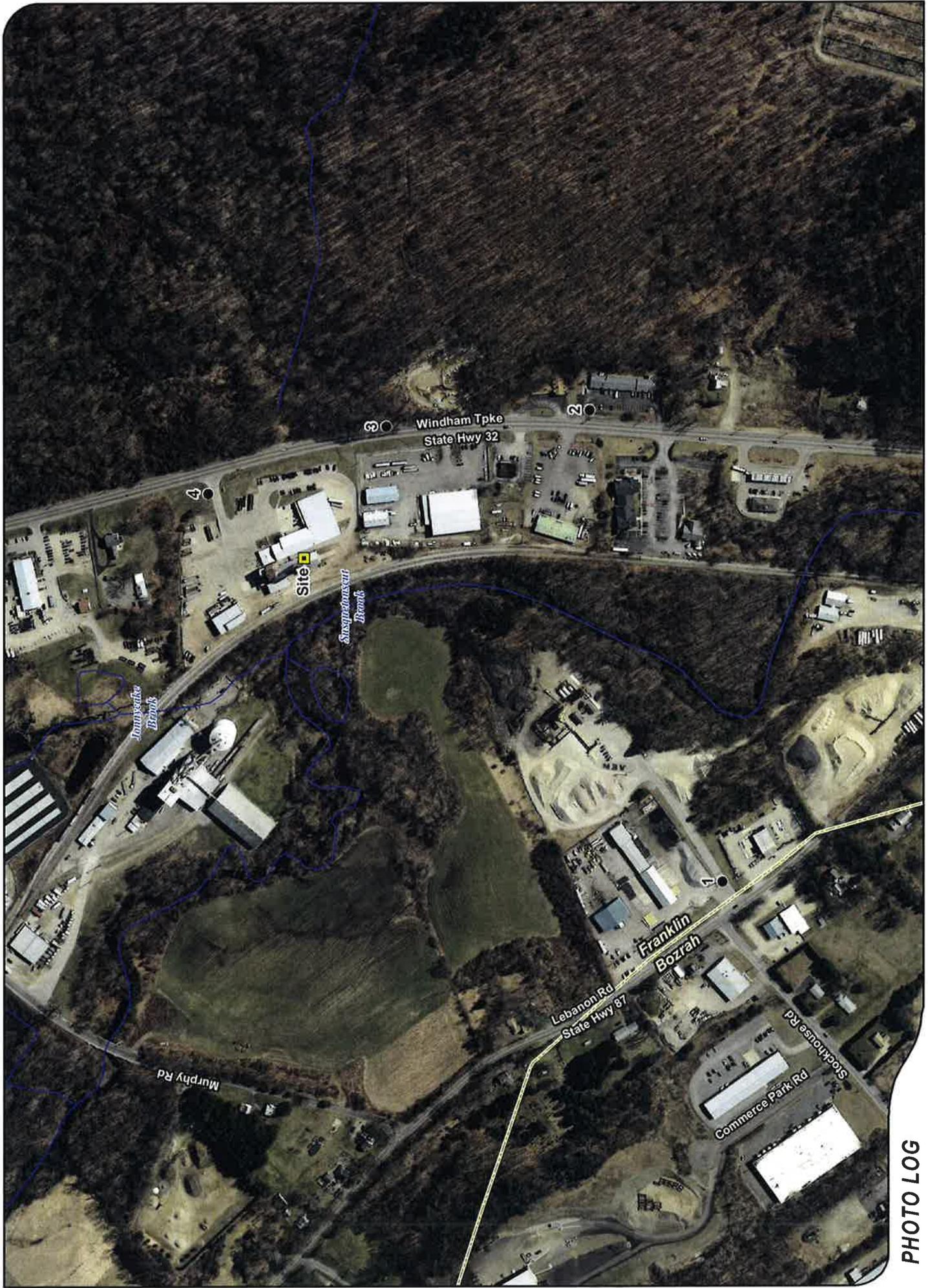
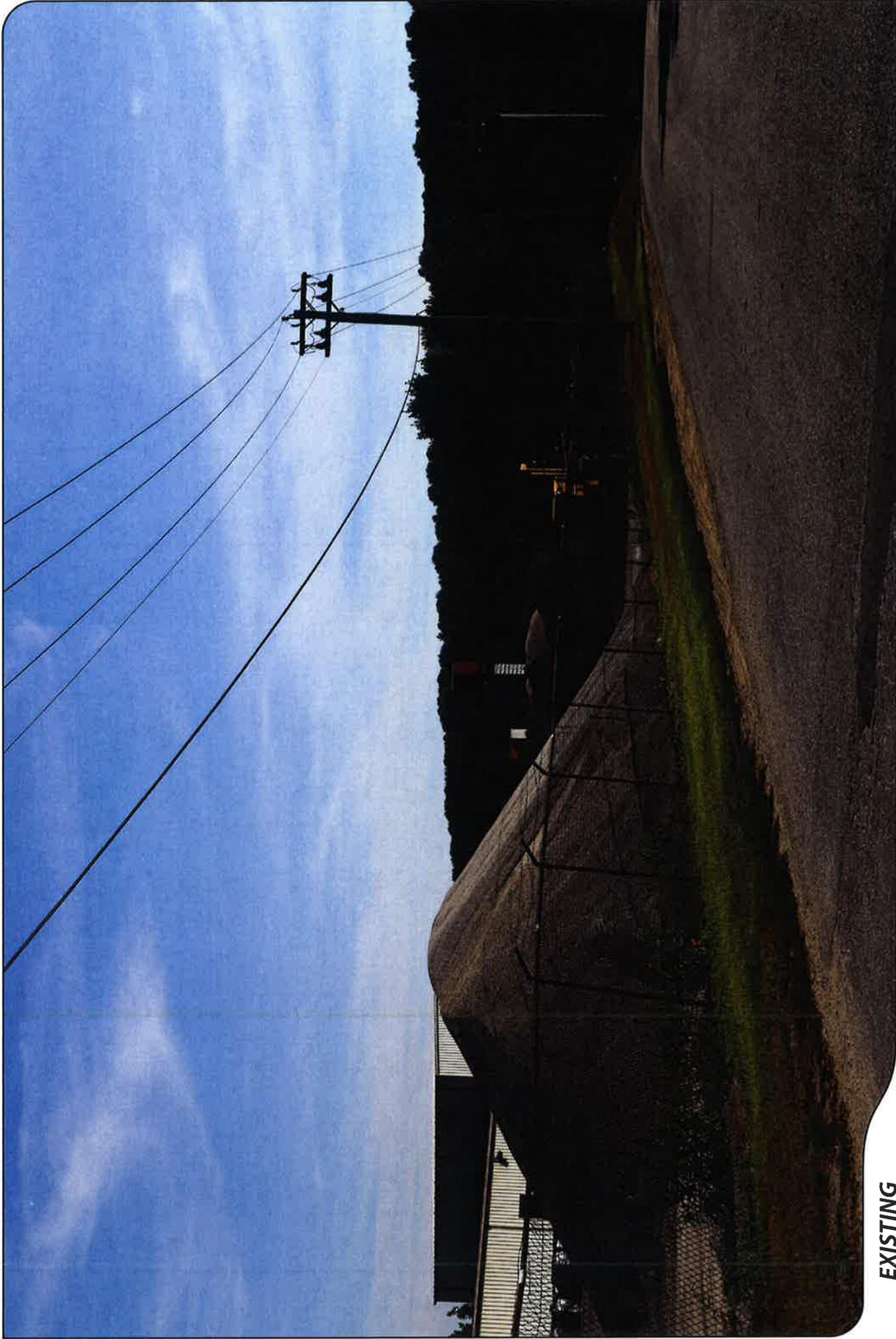


PHOTO LOG

- Legend
- Site
 - Photo Location
 - Watercourse
 - Municipal Boundary





EXISTING

PHOTO

1

LOCATION

HOST PROPERTY

ORIENTATION

NORTHEAST

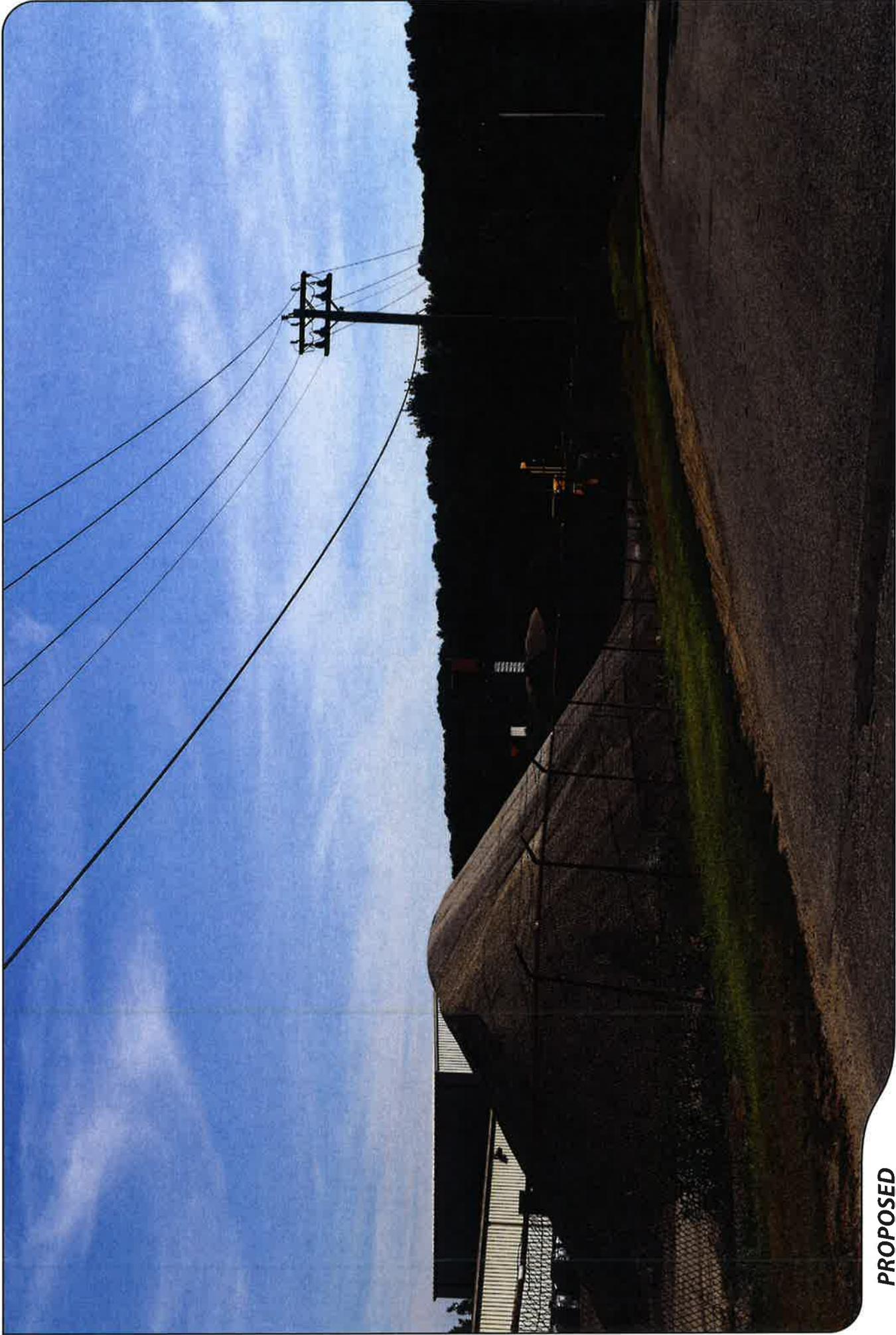
DISTANCE TO SITE

+/- 0.32 MILE



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

1

LOCATION

HOST PROPERTY

ORIENTATION

NORTHEAST

DISTANCE TO SITE

+/- 0.32 MILE



EXISTING

PHOTO

2

LOCATION

ROUTE 32

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.20 MILE



PROPOSED

PHOTO

2

LOCATION

ROUTE 32

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.20 MILE



EXISTING

PHOTO

3

LOCATION

ROUTE 32

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.10 MILE



PROPOSED

PHOTO

3

LOCATION

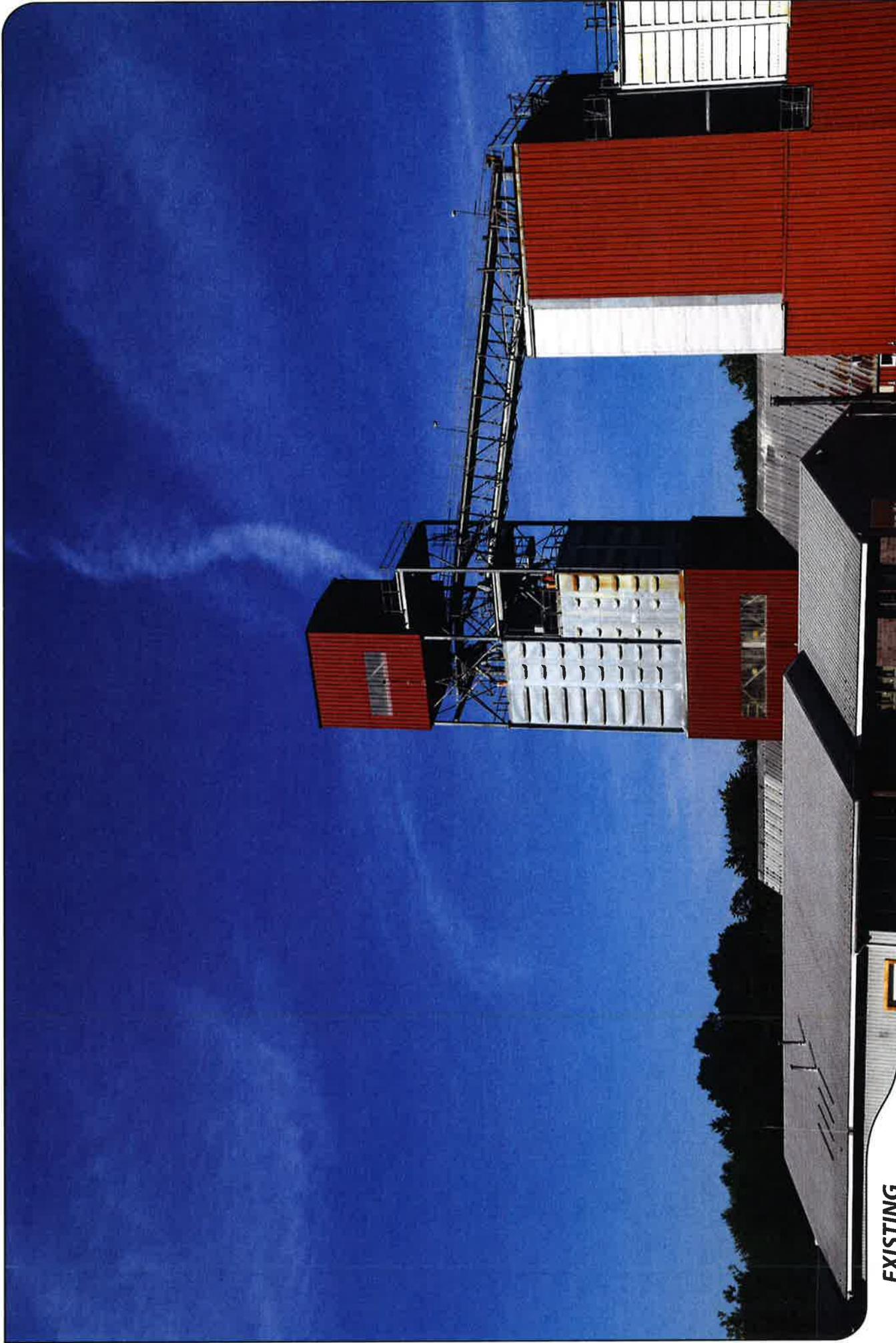
ROUTE 32

ORIENTATION

NORTHWEST

DISTANCE TO SITE

+/- 0.10 MILE



EXISTING

PHOTO

4

LOCATION

ROUTE 32

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 370 FEET



ALL-POINTS
TECHNOLOGY CORPORATION





PROPOSED

PHOTO

4

LOCATION

ROUTE 32

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 370 FEET

ATTACHMENT 5

General Power Density

Site Name: North Franklin SC 2, CT
 Cumulative Power Density

Operator	Operating Frequency (MHz)	Number of Trans.	ERP Per Trans. (watts)	Total ERP (watts)	Distance to Target (feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure* (mW/cm ²)	Fraction of MPE (%)
VZW PCS	1970	0	470	0	129	0.0000	1.0	0.00%
VZW Cellular	869	0	422	0	129	0.0000	0.5793333333	0.00%
VZW AWS	2145	1	120	120	129	0.0026	1.0	0.26%
VZW 700	746	0	1050	0	129	0.0000	0.4973333333	0.00%

Total Percentage of Maximum Permissible Exposure

0.26%

*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/cm² = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

ATTACHMENT 6

NORTH_FRANKLIN_SC_2_CT.txt

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

Airspace User: Your Name

File: NORTH_FRANKLIN_SC_2_CT

Location: Norwich, CT

Latitude: 41°-34'-43.26" Longitude: 72°-07'-59.38"

SITE ELEVATION AMSL.....142 ft.
STRUCTURE HEIGHT.....131 ft.
OVERALL HEIGHT AMSL.....273 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 IJD
- FAR 77.9: NNR (No Expected TERPS® impact 9B8)
- 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.

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.

The below analysis reflects the aeronautical conditions that exist as of the date stamped on this analysis.

Notice to the FAA is not required at the analyzed location and height for slope, height or Straight-In procedures. Please review the 'Air Navigation' section for notice requirements for offset IFR procedures and EMI.

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: IJD: WINDHAM

Type: A RD: 59940.21 RE: 246.6

FAR 77.17(a)(1): DNE

NORTH_FRANKLIN_SC_2_CT.txt

FAR 77.17(a)(2): DNE - Greater Than 5.99 NM.
 VFR Horizontal Surface: DNE
 VFR Conical Surface: DNE
 VFR Approach Slope: DNE
 VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: 9B8: SALMON RIVER AIRFIELD

Type: A RD: 84184.26 RE: 529.3
 FAR 77.17(a)(1): DNE
 FAR 77.17(a)(2): Does Not Apply.
 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 1400 ft AMSL

PRIVATE LANDING FACILITIES

FACIL	BEARING	RANGE	DELTA ARP	FAA
IDENT TYP NAME	To FACIL	IN NM	ELEVATION	IFR
CT93 HEL BACKUS HOSPITAL No Impact to Private Landing Facility Structure is beyond notice limit by 12378 feet.	139.87	2.86	+164	
CT36 AIR GAGER FIELD No Impact to VFR Transitional Surface. Below surface height of 201 ft above ARP.	253.49	3.01	-192	

AIR NAVIGATION ELECTRONIC FACILITIES

APCH	FAC	ST	DIST	DELTA	GRND	
BEAR	IDNT	TYPE	AT	FREQ VECTOR (ft)	ELEVA ST LOCATION	ANGLE
	ORW	VOR/DME	I	110.0 102.55	37513 -37 CT NORWICH	-.06
	GON	VOR/DME	R	110.8 166.21	93169 +264 CT GROTON	.16
	HFD	VOR/DME	R	114.9 281.49	115549 -576 CT HARTFORD	-.29
	PVD	RADAR	Y	2735. 70.31	155062 -303 RI THEODORE FRANCIS	-.11
	PUT	VOR/DME	R	117.4 29.78	158328 -379 CT PUTNAM	-.14
	MAD	VOR/DME	R	110.4 237.62	181114 +53 CT MADISON	.02
	BDL	RADAR	ON	311.37	199148 +37 CT BRADLEY INTL	.01
	PVD	VORTAC	R	115.6 74.34	199472 +224 RI PROVIDENCE	.06

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.

NORTH_FRANKLIN_SC_2_CT.txt

Nearest AM Station: WICH @ 5601 meters.

Airspace® Summary Version 15.7.400

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08-26-2015
11:05:39

ATTACHMENT 7

October 6, 2015

Via Certificate of Mailing

Richard Matters, First Selectman
Franklin Town Hall
7 Meetinghouse Hill
Franklin, CT 06254

Re: **Installation of a Small Cell Telecommunications Facility at 140 Route 32, Franklin, Connecticut**

Dear Mr. Matters:

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 140 Route 32 in Franklin (the “Property”).

The proposed “small cell” would consist of a small tower attached to the abandoned grain elevator at the Property. The tower would support a single canister-type antenna and a remote radio head (“RRH”) and would extend approximately 5’-4” above the top of the grain elevator structure. Equipment associated with the small cell facility will be located in a lower level utility room inside an adjacent building.

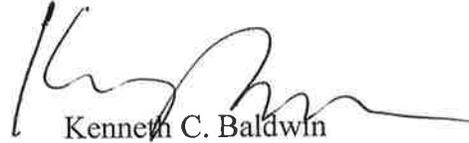
A copy of Cellco’s Petition is attached for your review. Landowners whose property abuts the Property were also sent a copy of the Petition.

Robinson + Cole

Richard Matters
October 6, 2015
Page 2

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

Sincerely,



Kenneth C. Baldwin

KCB/kmd
Attachment

October 6, 2015

Via Certificate of Mailing

D.W. Holdings, LLC
c/o Lenny Rochester
140 Route 32
Franklin, CT 06254

Re: **Installation of a Small Cell Telecommunications Facility at 140 Route 32, Franklin, Connecticut**

Dear Mr. Rochester:

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 140 Route 32 in Franklin (the “Property”).

The proposed “small cell” would consist of a small tower attached to the abandoned grain elevator at the Property. The tower would support a single canister-type antenna and a remote radio head (“RRH”) and would extend approximately 5’-4” above the top of the grain elevator structure. Equipment associated with the small cell facility will be located in a lower level utility room inside an adjacent 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

D.W. Holdings, LLC
October 6, 2015
Page 2

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

October 6, 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 140 Route 32, Franklin, 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 “small cell” telecommunications facility at 140 Route 32 in Franklin (the “Property”).

The proposed “small cell” would consist of a small tower attached to the abandoned grain elevator at the Property. The tower would support a single canister-type antenna and a remote radio head (“RRH”) and would extend approximately 5’-4” above the top of the grain elevator structure. Equipment associated with the small cell facility will be located in a lower level utility room inside an adjacent 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.

October 6, 2015
Page 2

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTING PROPERTY OWNERS

140 ROUTE 32, FRANKLIN, CONNECTICUT

	Property Address	Owner's and Mailing Address
1.	135 Route 32	Route 32 Associates LLC c/o Howard Safenowitz 1933 Cold Canyon Road Calabasas, CA 91302
2.	122 Route 32	DW Holding LLC 140 Route 32 Franklin, CT 06254
3.	55 Lebanon Road	Adelman Family LLC 38 Bozrah Street Bozrah, CT 06334
4.	39 Murphy Road	Hilanddale Farms CT LLC Attn: Bethel Orlandi 370 Spicer Road Gettysburg, PA 17385
5.	158 Route 32	Ralph G. Fargo, Jr. 270 Bozrah Street Bozrah, CT 06334
6.	152 Route 32	Dan and Susan J. Dolliver 152 Route 32 Franklin, CT 06254
7.	Railroad ROW	New England Central Railroad, Inc. c/o Genesee & Wyoming Inc. Corporate Headquarters 66 Field Point Road Greenwich, CT 06830