

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	:	
AT 93 NORTH AIRLINE ROAD,	:	
WALLINGFORD, CONNECTICUT	:	JUNE 12, 2017

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 wireless telecommunications facility on property at 93 North Airline Road in Wallingford, Connecticut (the “Property”). The Property is owned by Christopher Schrock and is used for residential purposes. Cellco refers to the proposed facility as its “Wallingford 7 Facility”.

II. Factual Background

The Property is a 9.71-acre parcel in Wallingford’s RU-40 Rural zone district. *See Attachment 1* – Site Vicinity and Site Schematic Maps (Aerial Photograph). Cellco is licensed to provide wireless telecommunications services in the 700 MHz, 850 MHz, 1900 MHz and 2100 MHz frequency ranges in Wallingford and throughout the State of Connecticut. Initially, the

proposed Wallingford 7 Facility will provide wireless service in Cellco's 700 MHz frequency range only. The Wallingford 7 Facility will fill a very discrete coverage gap along Interstate 91 between Cellco's existing Wallingford NE and Wallingford East (macro) cell sites.

A. Proposed Wallingford 7 Facility

Cellco will install a new wood pole (tower) in the northwest portion of the Property. The top of the pole will extend to a height of 43 feet above grade. Cellco will install two (2) antennas (Model SBNHH-1D65A) at the top of the pole. The antennas will not extend above the top of the pole. Cellco will also install a remote radio head ("RRH") (Model B13-RRH4x30), a back-up battery cabinet and related electrical service equipment to the lower portion of the pole. Cellco would paint its antennas and related equipment brown to match the pole. (See Cellco's Project Plans included in Attachment 2). Power and telephone service to the Wallingford 7 Facility will extend from existing utility pole on the north side of New Rock Road. Specifications for the Wallingford 7 Facility antennas, RRH and related equipment are included in Attachment 3.

III. 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 new wood pole (tower) supporting two (2) antennas, a RRH and a battery cabinet and related electrical components will not involve a significant alteration in the physical and environmental characteristics of the Property. Minimal ground disturbance will be required to install the new pole and electric service. Minimal tree branch and/or shrub removal may be necessary to install the proposed Wallingford 7 Facility. There is one wetland on the Property. The proposed facility will be located approximately 50 feet north of the wetland, within an existing developed and disturbed area, therefore, no likely adverse impact to the wetland is associated with the installation.

2. Visual Effects

The visibility of the proposed facility would be limited to locations within a few hundred feet of the facility along New Rock Hill Road, between Shetland Drive and the Interstate 91 overpass. (See Visual Assessment & Photo-Simulations (“Visual Assessment”) included in Attachment 4). Based on the results of a Visual Assessment, Cellco has determined that the proposed facility will not have a significant impact on the site or aesthetics in the area.

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 worst-case MPE calculation for Cellco’s antennas at a centerline height of 41 feet AGL. This calculation indicates that the Wallingford 7 Facility will operate well within (68.83% of the standard) the RF emission standards established by the FCC.

4. FAA Summary Report

Included in Attachment 6 of this Petition is a Federal Airways & Airspace Summary

Report verifying that the new tower and antenna described above would 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 June 12, 2017, a copy of this Petition was sent to Wallingford's Mayor, William W. Dickinson, Jr. and Christopher Schrock, the owner of the Property. Notice of Cellco's intent to file the Petition was also sent to the owners of land that abuts the Property. Included in Attachment 7 is a copy of the letter sent to Mayor Dickinson and Mr. Schrock. Included in Attachment 8 is a sample abutter's letter and the list of those abutting landowners who were sent notice of the filing of the Petition.

IV. 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 pole used to support wireless antennas and related radio equipment 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

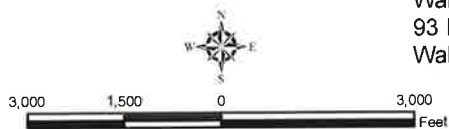
By 
Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597
(860) 275-8200
Its Attorneys

ATTACHMENT 1



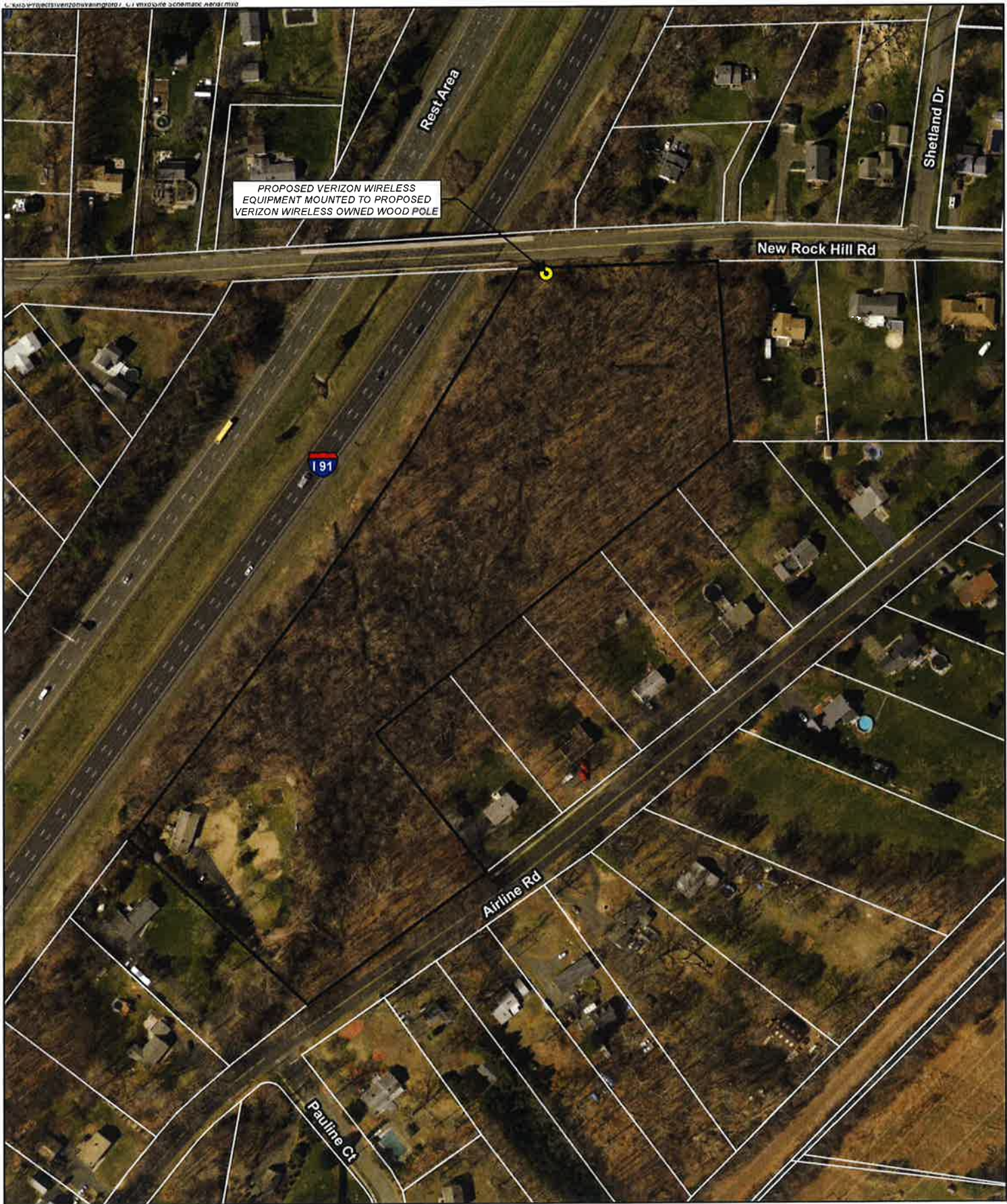
- Legend**
- ✖ Proposed Verizon Wireless Facility
 - Surrounding Verizon Wireless Facilities
 - Municipal Boundary
 - ~ Watercourse (CTDEEP)
 - Waterbody (CTDEEP)

Base Map Source: CT 2016 Aerial Imagery (CTECO)
 Map Scale 1 inch = 3,000 feet
 Map Date: May 2017






Site Vicinity Map

Proposed Wireless
 Telecommunications Facility
 Wallingford 7 CT
 93 North Airline Road
 Wallingford, Connecticut



Legend

-  Proposed Wood Pole
-  Approximate Subject Property
-  Approximate Parcel Boundary

Map Notes:
Base Map Source: 2016 CTECO Aerial Photograph
Map Scale: 1 inch = 200 feet
Map Date: May 2017



Site Schematic

Proposed Wireless
Telecommunications Facility
Wallingford 7 CT
93 North Airline Road
Wallingford, Connecticut



ATTACHMENT 2

WALLINGFORD 7 CT PROPOSED RADIO EQUIPMENT CABINET AND ANTENNA

93 NORTH AIRLINE ROAD
WALLINGFORD, CT 06492
LAT: 41°27'17.10" (N)
LONG: 72°46'47.87" (W)




LOCATION MAP
NOT TO SCALE

PROJECT SUMMARY	
SITE NAME:	WALLINGFORD 7 CT
POLE NUMBER:	NO STENCIL
SITE ADDRESS:	93 NORTH AIRLINE ROAD WALLINGFORD, CT 06492 NEW HAVEN COUNTY
POLE OWNER:	VERIZON WIRELESS
SERVICE TERRITORY:	ELE – EVERSOURCE TEL – FRONTIER COMMUNICATIONS
APPLICANT:	CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
SITE ACQUISITION CONTACT:	HEIDI MAHONEY TILSON TECHNOLOGY MANAGEMENT (207) 772-3427
REGULATORY COUNSEL:	KENNETH C. BALDWIN ESQ. ROBINSON + COLE LLP (860) 275-8345

SHEET INDEX	
SHEET NUMBER	DESCRIPTION
T-1	TITLE SHEET
C-1	ABUTTERS MAP
C-2	SITE PLAN
C-3	ELEVATION PLAN
C-4	DETAILS


PREPARED FOR:
Cellco Partnership
d/b/a Verizon Wireless



SUBMITTALS

REV	DATE	ISSUED FOR
1	5/18/17	FOR CLIENT REVIEW
2	5/24/17	FOR CLIENT REVIEW
3	6/5/17	FOR CLIENT REVIEW
4	6/8/17	FOR CLIENT REVIEW

STAMP

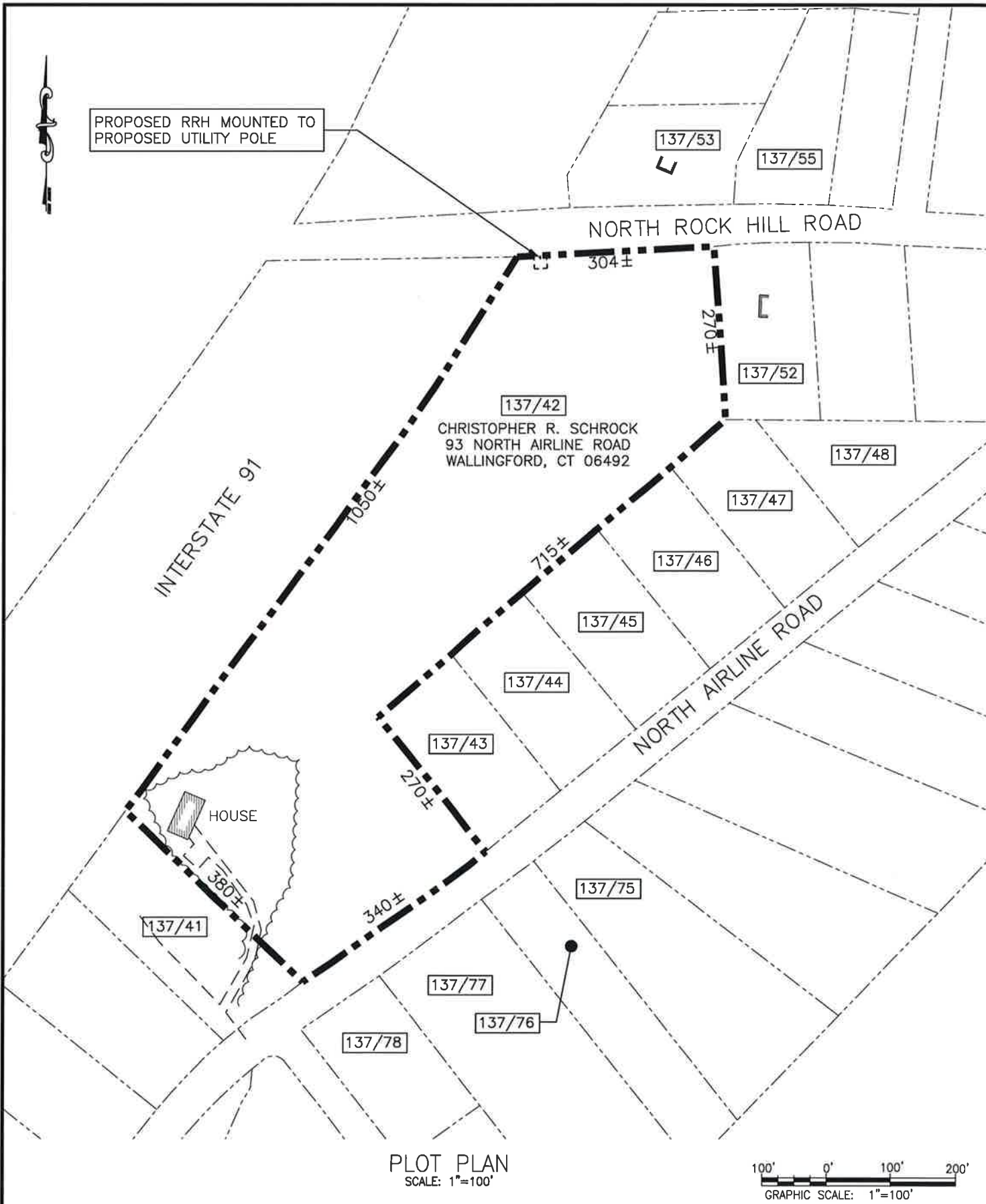


245 Commercial Street Suite 203
Portland, ME 04101
P: (207) 591-6427 F: (207) 772-3427

WALLINGFORD 7 CT
93 NORTH AIRLINE ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

SHEET TITLE
TITLE SHEET

DRAFTED BY: PZK	T-1	REV 5
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LIST OF ABUTTERS		
TOWN OF WALLINGFORD, CT		
MAP/LOT	RECORD OWNER	ADDRESS
INTERSTATE 91	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	2800 BERLIN TURNPIKE NEWINGTON, CT 06111
137/41	JOSEPH & ROSE CARRANO	91 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/43	SUZANNE & PAUL POWELL	213 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/44	GERALD BORRELLI	217 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/45	MICHAEL & CARRIE PYER	221 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/46	TREVAR SHERER	225 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/47	ROLANDA & ARHTUR BAW	229 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/48	AMY RIDDLE	233 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/52	WILLIAM P. & MARY ELLEN MORGANTI	1047 NEW ROCK HILL ROAD WALLINGFORD, CT 06492
137/53	LEONA GORDON A/K/A LEONA SMILLIE	1036 NEW ROCK HILL ROAD WALLINGFORD, CT 06492
137/55	MICHAEL J. & NANCY GIANOTTI	1044 NEW ROCK HILL ROAD WALLINGFORD, CT 06492
137/75	KELLY A. CERRONE	184 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/76	JOHN PACHECO	174 NORTH AIRLINE ROAD WALLINGFORD, CT 06492
137/77	GORDON E. GOOCH REVOCABLE LIVING TRUST GORDON GOOCH TRUST	611 LOCKEHAVEN ROAD ENFIELD, NH 03748
137/78	ELIZABETH & JOSEPH E. GENITE III	146 NORTH AIRLINE ROAD WALLINGFORD, CT 06492

SOURCE:
TOWN OF WALLINGFORD, CT ASSESSORS MAP.
MAP NUMBERS:
137 OF 233 (DATED FEB. 2016)



MUNICIPALITY NOTIFICATION LIMIT MAP

LEGEND

- PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXISTING TREE LINE
- EXISTING BUILDING

PREPARED FOR:
Cellco Partnership
d/b/a Verizon Wireless

verizon

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TILSON

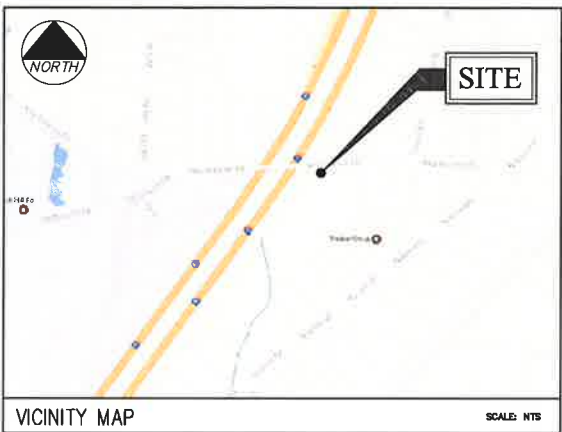
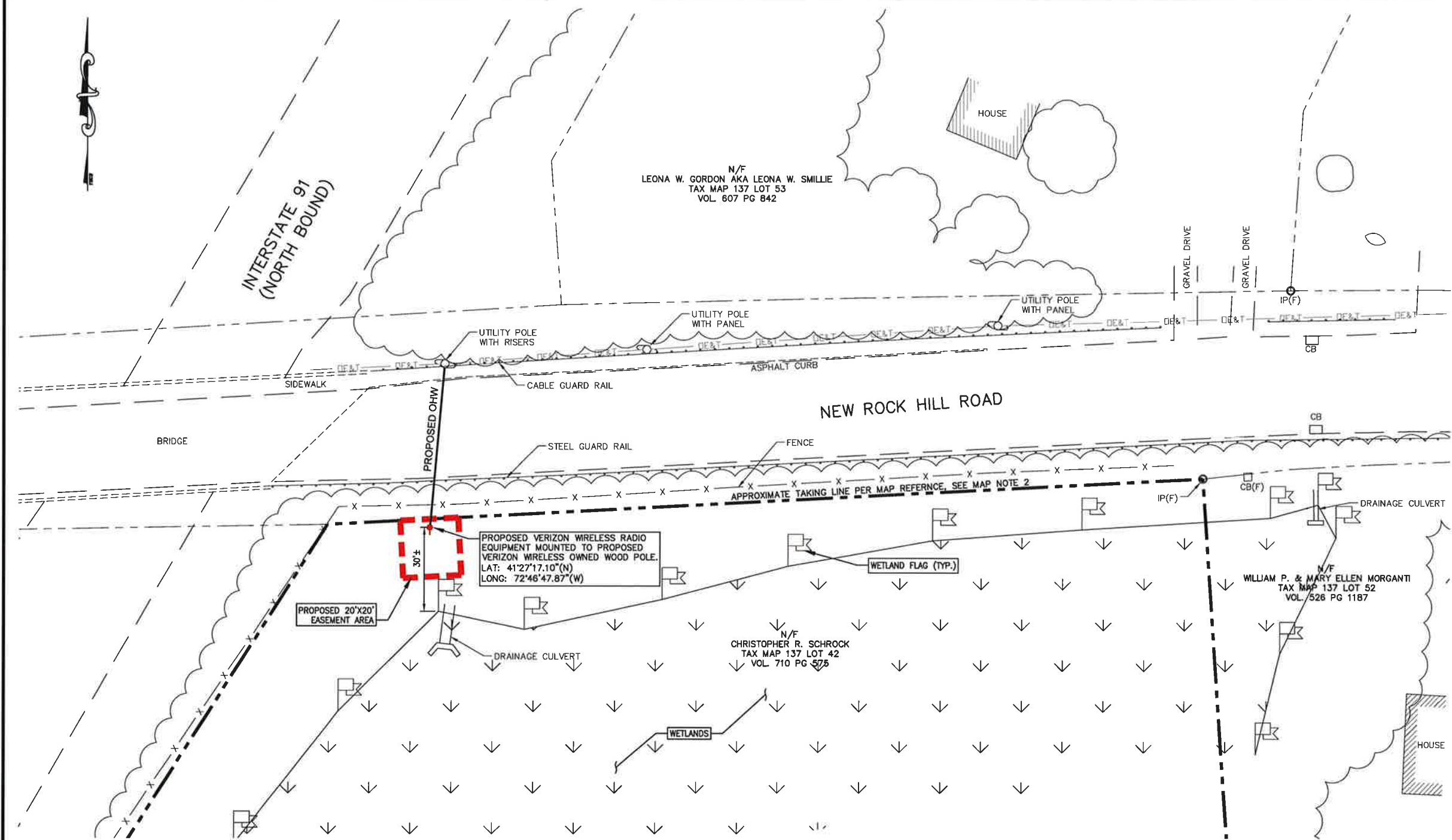
245 Commercial Street Suite 203
Portland, ME 04101
P: (207) 591-6427 F: (207) 772-3427

WALLINGFORD 7 CT
93 NORTH AIRLINE ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

SHEET TITLE
ABUTTERS MAP

DRAFTED BY:	REV
PZK	5

C-1



GENERAL NOTES

- THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATION OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARD OF SURVEY AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1996.
MAP ELEMENTS DEPICTED ON THIS MAP MEET TOPOGRAPHICAL ACCURACY CLASS T-1 ($\pm 1/40"$ AT MAP SCALE)
BOUNDARY DETERMINATION CATEGORY IS DEPENDANT RE-SURVEY.
- THE INTENT OF THIS MAP IS TO ESTABLISH THE STREET LINE ON THE SOUTH SIDE OF NEW ROCK HILL ROAD JUST EAST OF INTERSTATE 91 FOR A PROPOSED EASEMENT ON THE PROPERTY OF SCHROCK FOR A UTILITY POLE. THE TAKING LINE BY THE STATE CONNECTICUT IN JUNE OF 1962 FOR NEW ROCK HILL ROAD AND THE PROPERTY LINE FOR THE SCHROCK PROPERTY AS DEPICTED ON MAP REFERENCE 3 DO NOT COINCIDE. AT THIS TIME WE DO NOT KNOW IF THE TOWN OF WALLINGFORD HAS ACCEPTED THE NEW ALIGNMENT OR IF THE ORIGINAL RIGHTS HAVE BEEN RETAINED, PRESUMABLY AS DEPICTED ON THE ORIGINAL SURVEYS BY JACKSON AND GALATI.
- SITE MAY REQUIRE MINIMAL TREE BRANCH OR SHRUB TRIMMING. TO BE DETERMINED IN FIELD.
- ALL ACCESS TO PROPOSED SITE SHALL BE BY BUCKET TRUCK FROM NEW ROCK HILL ROAD. ANY MAINTENANCE REQUIRED SHALL BE PERFORMED BY BUCKET TRUCK FROM NEW ROCK HILL ROAD. TRAFFIC CONTROL MAY BE REQUIRED.

SITE PLAN SCALE: 1"=20'

WETLAND DELINEATION

- ALL WETLAND FLAGS DELINEATED BY ALL-POINTS TECHNOLOGY CORPORATION.

MAP REFERENCE

- PLAN ENTITLED "SUBDIVISION MAP SHOWING PROPERTY OF PETER R. & MARGARET GIANOTTI - LOTS 1 & 2 TO BE CONVEYED TO ROBERT J. GREENE". SCALE 1"=40' LAST REVISED JUNE 15, 1974 BY LEON J. KWATKOWSKI. W.L.R. MAP NO. 2599.
- PLAN ENTITLED "PROPOSED SUBDIVISION - LOTS #1 THRU #6 PROPERTY OF DOMINIC GALATI" SCALE 1" = 100', DATED AUG. 25, 1975 BY DOMINIC GALATI. W.L.R. MAP NO. 2688
- PLAN ENTITLED "RESUBDIVISION OF LOTS #13, NORTH AIRLINE ROAD" SCALE 1" = 50' SEPT. 9, 1988 BY ROBERT A. JACKSON JR. W.L.R. MAP 3971.
- PLAN ENTITLED "TOWN OF WALLINGFORD MAP SHOWING LAND EASEMENTS & RIGHTS OF ACCESS ACQUIRED FROM CHESTER H. COOKE ET AL" SCALE 1" = 40 JUNE 1962 (PROJECT 148-55-28 SHT 3 OF 3)
- PLAN ENTITLED "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP TOWN OF WALLINGFORD INTERSTATE 91 FROM THE NORTH HAVEN-WALLINGFORD TOWN LINE NORTHERLY TO ROCK HILL ROAD" SCALE 1" = 80' LAST REVISED DECEMBER 15, 1866 (PROJECT NUMBER 148-09 SHEET 8 OF 8)

NOTE:
THIS IS NOT A STANDARD BOUNDARY SURVEY. EXCEPT AS IDENTIFIED BY MONUMENTATION FOUND.
ALL BOUNDARIES SHOWN ON THIS PLAN HAVE BEEN COMPILED FROM RECORD DEEDS AND TAX MAPS AND ARE INTENDED TO SHOW THE LOCATIONS OF ADJUTING LOTS AND ZONING BOUNDARIES ONLY.

PREPARED FOR:
Cellco Partnership
d/b/a Verizon Wireless

verizon ✓

SUBMITTALS

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1	5/19/17	FOR CLIENT REVIEW
2	5/24/17	FOR CLIENT REVIEW
3	6/5/17	FOR CLIENT REVIEW
4	6/8/17	FOR CLIENT REVIEW

STAMP

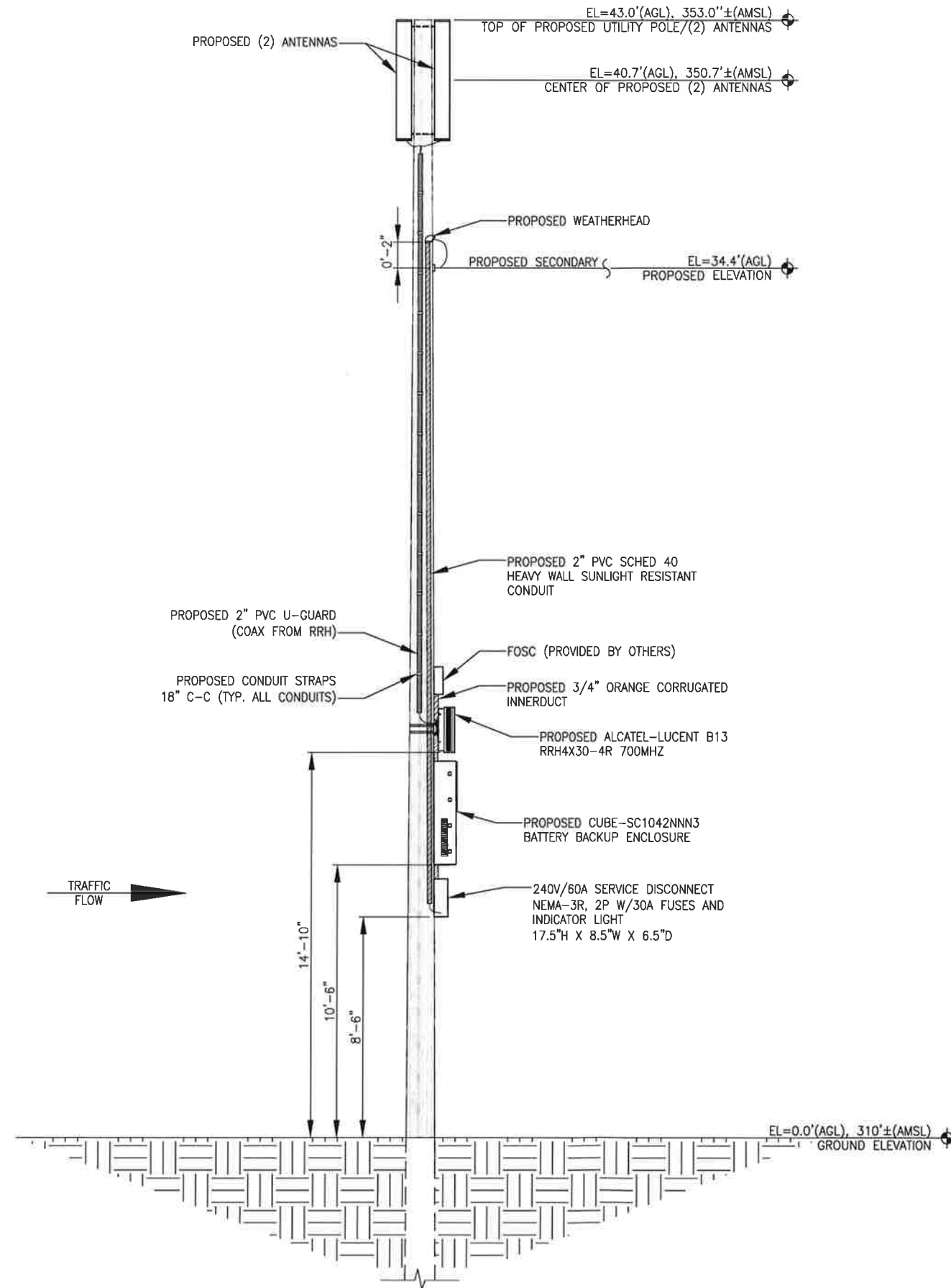
TILSON

245 Commercial Street Suite 203
Portland, ME 04101
P: (207) 591-6427 F: (207) 772-3427

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93 NORTH AIRLINE ROAD
WALLINGFORD, CT 06492
NEW HAVEN COUNTY

SHEET TITLE SITE PLAN

DRAFTED BY:
PZK
C-2
REV
5



UTILITY POLE ELEVATION
SCALE: 3/8" = 1'-0"

PREPARED FOR:
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d/b/a Verizon Wireless



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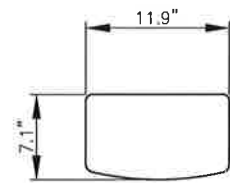
WALLINGFORD 7 CT
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NEW HAVEN COUNTY

SHEET TITLE ELEVATION PLAN

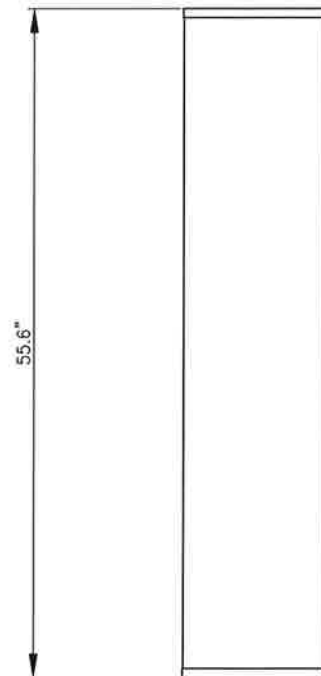
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C-3

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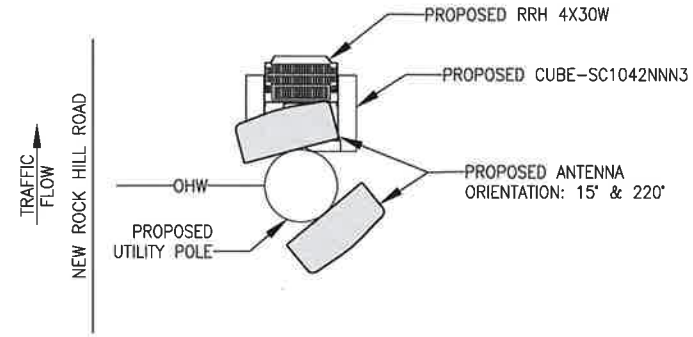


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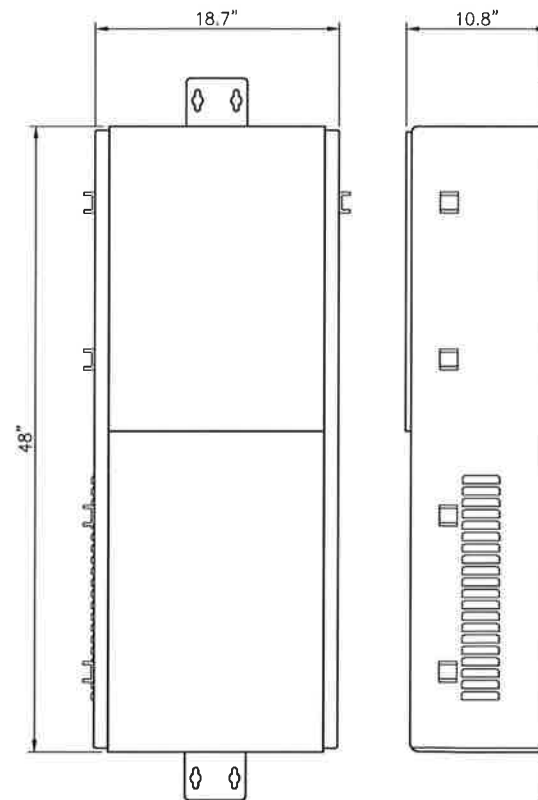


FRONT

ANTENNA DETAILS
SBNHH-165A
ORIENTATION: 15° & 220°
NOT TO SCALE



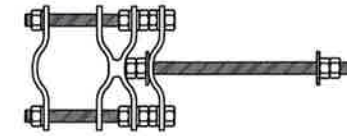
PROPOSED RRH ORIENTATION PLAN
NOT TO SCALE



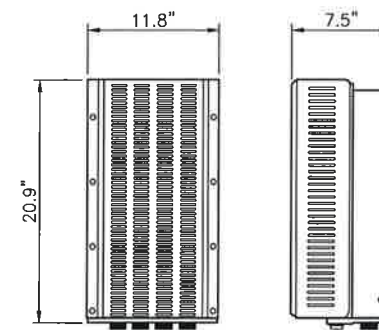
FRONT

SIDE

CABINET DETAILS
CUBE-SC1042NNN3 CABINET
NOT TO SCALE



ANTENNA MOUNTING DETAIL
ANDREW DB365W PIPE MOUNT
NOT TO SCALE



FRONT

SIDE

RRH DETAILS
B13 RRH 4X30 700MHZ
NOT TO SCALE

PREPARED FOR:
Calco Partnership
d/b/a Verizon Wireless

verizon ✓

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SHEET TITLE

DETAILS

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REV
5

C-4

ATTACHMENT 3



SBNHH-1D65A

Multiband Antenna, 698–896 and 2x 1695–2360 MHz, 65° horizontal beamwidth, internal RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	13.4	13.5	16.5	16.7	17.2	17.5
Beamwidth, Horizontal, degrees	66	61	70	65	62	61
Beamwidth, Vertical, degrees	17.6	15.9	7.1	6.6	6.2	5.5
Beam Tilt, degrees	0–18	0–18	0–10	0–10	0–10	0–10
USLS (First Lobe), dB	16	13	13	13	12	12
Front-to-Back Ratio at 180°, dB	25	27	28	28	27	29
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
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
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	13.1	13.1	16.1	16.5	16.7	17.2
Gain by all Beam Tilts Tolerance, dB	±0.5	±0.5	±0.5	±0.3	±0.5	±0.4
	0 ° 13.4	0 ° 13.4	0 ° 16.0	0 ° 16.3	0 ° 16.5	0 ° 17.0
Gain by Beam Tilt, average, dBi	9 ° 13.1	9 ° 13.1	5 ° 16.2	5 ° 16.5	5 ° 16.8	5 ° 17.3
	18 ° 12.7	18 ° 12.7	10 ° 16.1	10 ° 16.5	10 ° 16.6	10 ° 16.9
Beamwidth, Horizontal Tolerance, degrees	±3.1	±5.4	±2.8	±4	±6.6	±4.6
Beamwidth, Vertical Tolerance, degrees	±1.8	±1.4	±0.3	±0.4	±0.5	±0.3
USLS, beampeak to 20° above beampeak, dB	15	14	15	15	15	14
Front-to-Back Total Power at 180° ± 30°, dB	22	21	26	26	24	25
CPR at Boresight, dB	22	16	22	25	21	22
CPR at Sector, dB	10	6	12	8	5	4

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs.](#)

General Specifications

Antenna Type	Sector with internal RET
Band	Multiband
Brand	DualPol®
Operating Frequency Band	1695 – 2360 MHz 698 – 896 MHz
Performance Note	Outdoor usage

Mechanical Specifications

Color	Light gray
Lightning Protection	dc Ground

SBNHH-1D65A

Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, frontal	445.0 N @ 150 km/h 100.0 lbf @ 150 km/h
Wind Loading, lateral	145.0 N @ 150 km/h 32.6 lbf @ 150 km/h
Wind Loading, rear	523.0 N @ 150 km/h 117.6 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	180.0 mm 7.1 in
Length	1413.0 mm 55.6 in
Width	301.0 mm 11.9 in
Net Weight, without mounting kit	15.2 kg 33.5 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal RET	High band (1) Low band (1)
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	13.0 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male

Packed Dimensions

Depth	296.0 mm 11.7 in
Length	1589.0 mm 62.6 in
Width	390.0 mm 15.4 in
Shipping Weight	26.1 kg 57.5 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



Included Products

SBNHH-1D65A

BSAMNT-1 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

* Footnotes

Performance Note	Severe environmental conditions may degrade optimum performance
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ALCATEL-LUCENT B13 RRH4X30-4R

Alcatel-Lucent B13 Remote Radio Head 4x30-4R is the newest addition of Remote Radio Head to the extended product line of Alcatel-Lucent's distributed Base Station solutions, aimed at facilitating smooth RF site acquisition and related civil engineering.

Supporting 2Tx/4Tx MIMO and 4-way Rx diversity, Alcatel-Lucent B13 RRH4x30-4R allows operators to have a compact radio solution to deploy LTE in the 700U band (700 MHz, 3GPP band 13), providing them with the means to achieve high capacity, high quality and high coverage with minimum site requirements.

The Alcatel-Lucent B13 RRH4x30-4R product has four transmit RF paths, offering the possibility to **select, via software only, 2Tx or 4Tx MIMO configurations** with either 2x60 W or 4x30 W RF output power. It supports also 4-way Rx diversity and up to 10MHz instantaneous bandwidth.

The Alcatel-Lucent B13 RRH4x30-4R is a near zero-footprint solution and operates noise free, simplifying negotiations with site property owners and minimizing environmental impacts.

Its compactness and slim design makes the Alcatel-Lucent B13 RRH4x30-4R easy to install close to the antenna: operators can therefore locate this Remote Radio Head where RF design conditions are deemed ideal, minimizing trade-offs between available sites and RF optimum sites, together with reducing the RF feeder needs and installation costs.

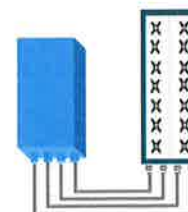


FEATURES

- Supporting LTE in 700 MHz band (700U, 3GPP band 13)
- LTE 2Tx or 4Tx MIMO (SW switchable)
- Output power: Up to 2x60W or 4x30W
- 10MHz LTE carrier with 4Rx Diversity
- Convection-cooled (fan-less)
- Supports AISG 2.0 ALD devices (RET, TMA) through RS485 or RF ports

BENEFITS

- Compact to reduce additional footprint when adding LTE in 700U band
- MIMO scheme operation selection (2Tx or 4Tx) by software only
- Improves downlink spectral efficiency through MIMO4
- Increases LTE coverage thanks to 4Rx diversity capability and best in class Rx sensitivity
- Flexible mounting options: Pole or Wall



4x30W with 4T4R
or
2x60W with 2T4R

Can be switched between
modes via SW w/o site
visit

TECHNICAL SPECIFICATIONS

Features & performance	
Number of TX/RX paths	4 duplexed (either 4T4R or 2T4R by SW)
Frequency band	U700 (C) (3GPP bands 13): DL: 746 - 756 MHz / UL: 777 - 787 MHz
Instantaneous bandwidth - #carriers	10MHz – 1 LTE carrier (in 10MHz occupied bandwidth)
LTE carrier bandwidth	10 MHz
RF output power	2x60W or 4x30W (by SW)
Noise figure – RX Diversity scheme	2 dB typ. (<2.5 dB max) – 2 or 4 way Rx diversity
Sizes (HxWxD) in mm (in.)	550 x 305 x 230 (21.6" x 12.0" x 9") (with solar shield)
Volume in L	38 (with solar shield)
Weight in kg (lb) (w/o mounting HW)	26 (57.2) (with solar shield)
DC voltage range	-40.5 to -57V at full performance, -38 to -57V with relaxation on power consumption
DC power consumption	550W typical @100% RF load (in 2Tx or 4TX mode)
Environmental conditions	-40°C (-40°F) / +55°C (+131°F) IP65
Wind load (@150km/h or 93mph)	Frontal: <200N / Lateral : <150N
Antenna ports	4 ports 7/16 DIN female (50 ohms) VSWR < 1.5
CPRI ports	2 CPRI ports (HW ready for Rate7, 9.8 Gbps) SFP single mode dual fiber
AISG interfaces	1 AISG2.0 output (RS485) Integrated Smart Bias Tees (x2)
Misc. Interfaces	4 external alarms (1 connector) – 4 RF Tx & 4 RF Rx monitor ports - 1 DC connector (2 pins)
Installation conditions	Pole and wall mounting
Regulatory compliance	3GPP 36.141 / 3GPP 36.113 / GR-1089-CORE / GR-3108-CORE / UL 60950-1 / FCC Part 27

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ATTACHMENT 4

Visual Assessment & Photo-Simulations

WALLINGFORD 7 CT
PROPOSED RADIO EQUIPMENT
CABINET AND ANTENNA
93 NORTH AIRLINE ROAD
WALLINGFORD, CT 06492



Prepared in June 2017 by:
All-Points Technology Corporation, P.C.
3 Saddlebrook Drive
Killingworth, CT 06419

Prepared for Verizon Wireless

VISUAL ASSESSMENT & PHOTO-SIMULATIONS

At the request of Cellco partnership LLC d/b/a Verizon Wireless, All-Points Technology Corporation, P.C. ("APT") completed a visual assessment and prepared computer-generated photo-simulations depicting the proposed installation of a wireless telecommunications Facility at 93 North Airline Road in Wallingford, Connecticut (the "Site").

Project Setting

The Site is located northwest of North Airline Road, south of New Rock Hill Road and east of Interstate 91 on an undeveloped wooded parcel. In addition to the highway corridor, land use in the area of the Site is primarily residential. See the Site Schematic in the attachments to this report.

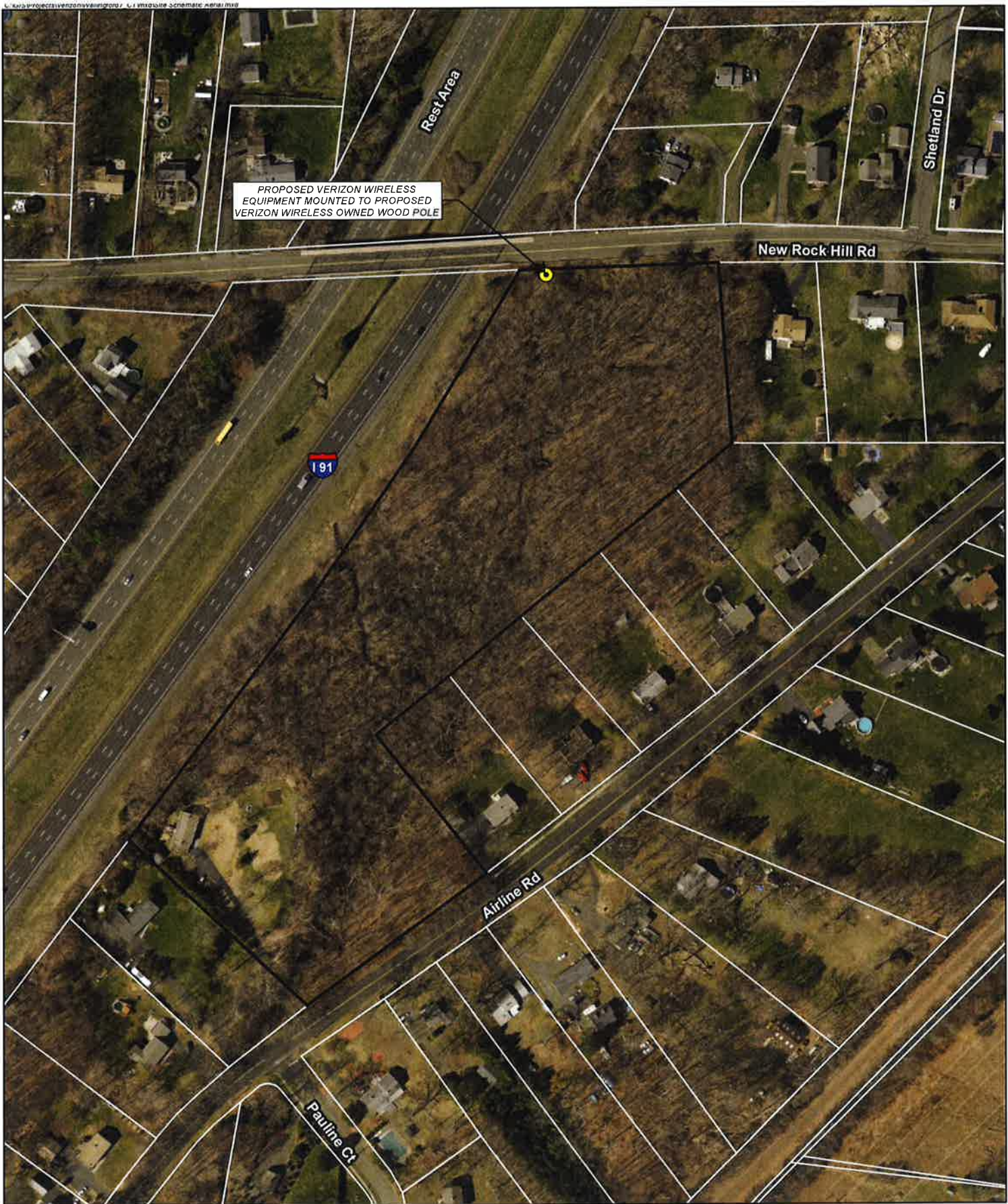
The proposed Facility would include the installation of a new wood utility pole that would support two (2) multi-band antennas and a remote radio head at its top. The new pole would stand 43 feet tall. PVC conduit would extend the length of the pole and interconnect to pole-mounted equipment beginning at 8.5 feet above grade. The proposed Facility components locations are illustrated in the *Proposed Elevation Plan* included in the attachments to this report.

Methodology

On May 19, 2017, APT personnel conducted a field reconnaissance to photo-document existing conditions. Three (3) locations along New Rock Hill Road were selected to represent the general extent of visibility of the proposed Facility installation. 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 for consistency.

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 format¹. The photolog map and copies of the existing conditions and photo-simulations are attached.

¹ 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.



- Legend**
- Proposed Wood Pole
 - Approximate Subject Property
 - Approximate Parcel Boundary

Map Notes
Base Map Source: 2016 CTECO Aerial Photograph
Map Scale: 1 inch = 200 feet
Map Date: May 2017



Site Schematic
Proposed Wireless
Telecommunications Facility
Wallingford 7 CT
93 North Airline Road
Wallingford, Connecticut



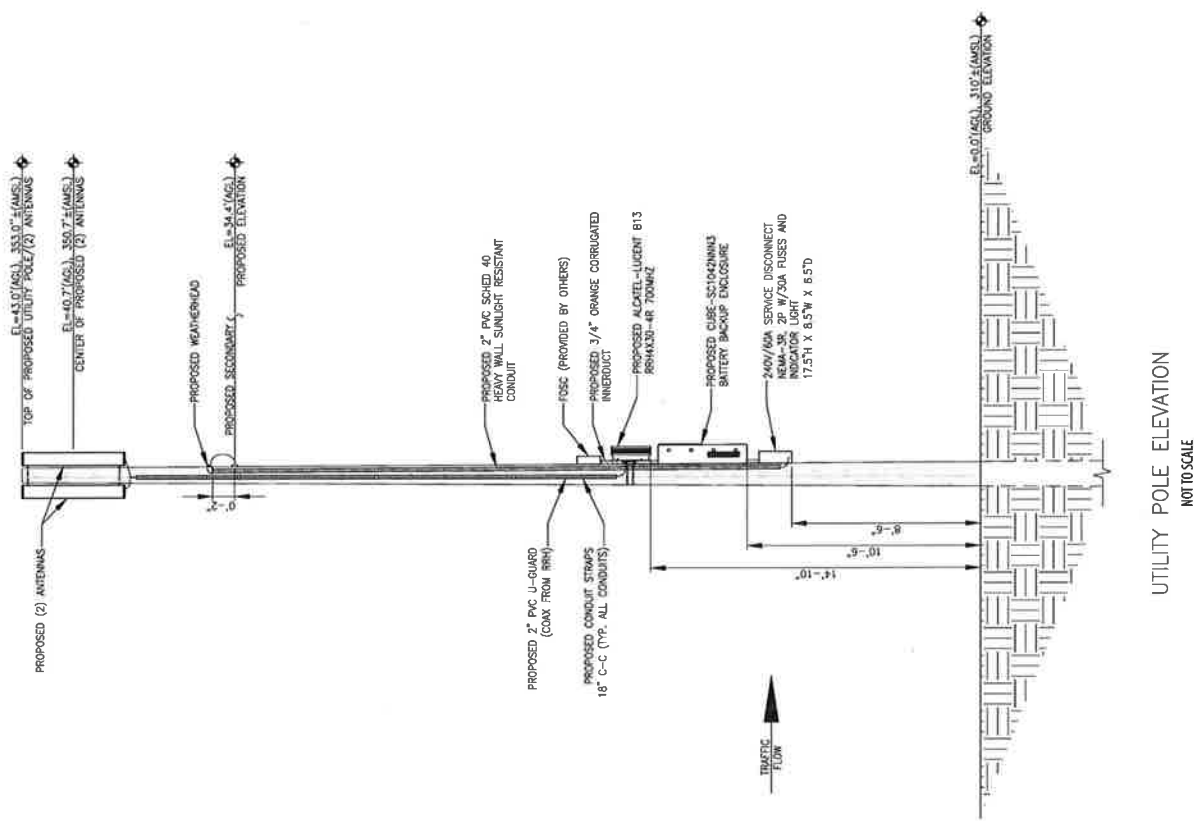


FIGURE 2: PROPOSED ELEVATION PLAN

Details extracted from technical drawings provided by Tilson dated 4-19-17.

Conclusions

The visibility of the proposed Facility would be limited primarily to locations within a few hundred feet of the Site, along New Rock Hill Road between its intersection with Shetland Drive (to the east) and the I-91 overpass to the west. These locations currently have existing wood poles of similar heights (and supporting overhead electrical distribution circuits and other utility lines) within the view scape on the north side of the road. The proposed installation would appear consistent with the existing infrastructure. Based on the results of this assessment, it is APT's opinion that the proposed installation of Verizon Wireless equipment at the Site would not have a significant impact on aesthetics in the area.

Limitations

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

ATTACHMENTS



PHOTO LOG

Legend

- Site
- Photo Location





PHOTOGRAPHED ON 5/19/2017

EXISTING

PHOTO

1

LOCATION

NEW ROCK HILL ROAD

ORIENTATION

WEST

DISTANCE TO SITE

+/- 362 FEET



verizon



PROPOSED

PHOTO	LOCATION	ORIENTATION	DISTANCE TO SITE
1	NEW ROCK HILL ROAD	WEST	+/- 362 FEET



PHOTOGRAPHED ON 5/19/2017

EXISTING

PHOTO

2

LOCATION

NEW ROCK HILL ROAD

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 223 FEET





PROPOSED

PHOTO

2

LOCATION

NEW ROCK HILL ROAD

ORIENTATION

SOUTHWEST

DISTANCE TO SITE

+/- 223 FEET



PHOTOGRAPHED ON 5/19/2017

EXISTING

PHOTO

3

LOCATION

NEW ROCK HILL ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 82 FEET



PROPOSED

PHOTO

3

LOCATION

NEW ROCK HILL ROAD

ORIENTATION

SOUTHEAST

DISTANCE TO SITE

+/- 82 FEET

ATTACHMENT 5

Site Name: Wallingford 7 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	1637	0	41	0.0000	1.0	0.00%
VZW Cellular	869	0	492	0	41	0.0000	0.5793333333	0.00%
VZW AWS	2145	0	2261	0	41	0.0000	1.0	0.00%
VZW 700	746	1	1600	1600	41	0.3423	0.4973333333	68.83%

Total Percentage of Maximum Permissible Exposure

68.83%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Section 1.13101 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter

ERP = Effective Radiated Power

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

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

ATTACHMENT 6

WALLY7.txt

```
*****
*               Federal Airways & Airspace               *
*           Summary Report: New Construction               *
*               Antenna Structure                         *
*****
```

Airspace User: Maria Montrose

File: WALLY7

Location: Meriden, CT

Latitude: 41°-27'-17.10" Longitude: 72°-46'-47.87"

SITE ELEVATION AMSL.....310 ft.

STRUCTURE HEIGHT.....43 ft.

OVERALL HEIGHT AMSL.....353 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 MMK
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for HVN
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.

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: MMK: MERIDEN MARKHAM MUNI

Type: A RD: 22406.74 RE: 98.6

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

VFR TRAFFIC PATTERN AIRSPACE FOR: HVN: TWEED-NEW HAVEN

Type: A RD: 73006.7 RE: 12.3

FAR 77.17(a)(1): DNE
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

WALLY7.txt

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 500 ft AMSL

PRIVATE LANDING FACILITIES

FACIL IDENT	TYP	NAME	BEARING To FACIL	RANGE IN NM	DELTA ARP ELEVATION	FAA IFR
0CT1	HEL	BRISTOL-MYERS SQUIBB COMPANY	30.9	2.09	+3	
No Impact to Private Landing Facility Structure is beyond notice limit by 7699 feet.						
CT21	HEL	C N FLAGG	7.6	3.21	+20	
No Impact to Private Landing Facility Structure is beyond notice limit by 14504 feet.						
CT39	AIR	MAPLEWOOD FARM	75.83	3.33	+73	
No Impact to VFR Transitional Surface. Below surface height of 233 ft above ARP.						
CT95	HEL	MERIDEN-WALLINGFORD HOSPITAL	344.26	4.9	+208	
No Impact to Private Landing Facility Structure is beyond notice limit by 24773 feet.						

AIR NAVIGATION ELECTRONIC FACILITIES

APCH BEAR	FAC IDNT	ST TYPE	AT	FREQ	VECTOR	DIST (ft)	DELTA ELEVA	ST	LOCATION	GRND ANGLE
	MMK	CO	Y	134.92	327.16	25339	+197	CT	MERIDEN	.45
	MAD	VOR/DME	R	110.4	154.89	56717	+133	CT	MADISON	.13
Alert! IFR Notice is not required for this structure. Predict within Final Segment of Approach plus Fix Error Area. Within FAR 77.9 IFR Notice Requirement Area for MMK: VOR RWY 36 The maximum IFR No Notice Height for new construction is: 560' AMSL.										
	HVN	VOR/DME	R	109.8	202.35	75835	+347	CT	NEW HAVEN	.26
	HFD	VOR/DME	R	114.9	43.08	93070	-496	CT	HARTFORD	-.31
	BDR	VOR/DME	R	108.8	221.34	142972	+344	CT	BRIDGEPORT	.14
	BDL	RADAR	ON		8.56	178292	+117	CT	BRADLEY INTL	.04
	BDL	VORTAC	D	109.0	7.99	178933	+193	CT	BRADLEY	.06
	CCC	VOR/DME	R	117.2	181.55	191407	+268	NY	CALVERTON	.08
	GON	VOR/DME	R	110.8	103.02	204832	+344	CT	GROTON	.10
	QVH	RADAR ARSR	Y	1326.9	173.1	211434	+2	NY	RIVERHEAD	0.00
	KOKX	RADAR WXL	Y		186.12	215915	+158	NY	NEW YORK	.04

WALLY7.txt

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: WMMW @ 11155 meters.

Airspace® Summary Version 17.3.436

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05-02-2017
10:35:00

ATTACHMENT 7

June 12, 2017

Via Certificate of Mailing

William W. Dickinson, Jr., Mayor
Town of Wallingford
45 South Main Street
Wallingford, CT 06492

Re: Proposed Installation of a Wireless Telecommunications Facility at 93 North Airline Road, Wallingford, Connecticut

Dear Mayor Dickinson:

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 wireless telecommunications facility at 93 North Airline Road in Wallingford (the "Property"). The facility will consist of a 43-foot wood pole/tower located in the northwest portion of the Property, adjacent to New Rock Hill Road. Cellco will attach two (2) antennas to the top of the pole, a remote radio head, a battery cabinet and related electrical equipment to the pole. The top of the antennas would not extend above the height of the wood pole.

A full copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16586630-v1

William W. Dickinson, Jr., Mayor
June 12, 2017
Page 2

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

Sincerely,



Kenneth C. Baldwin

Attachment

June 12, 2017

Via Certificate of Mailing

Christopher R. Schrock
93 North Airline Road
Wallingford, CT 06492

Re: Proposed Installation of a Wireless Telecommunications Facility at 93 North Airline Road, Wallingford, Connecticut

Dear Mr. Schrock:

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 wireless telecommunications facility at 93 North Airline Road in Wallingford (the “Property”). The facility will consist of a 43-foot wood pole/tower located in the northwest portion of the Property, adjacent to New Rock Hill Road. Cellco will attach two (2) antennas to the top of the pole, a remote radio head, a battery cabinet and related electrical equipment to the pole. The top of the antennas would not extend above the height of the wood pole.

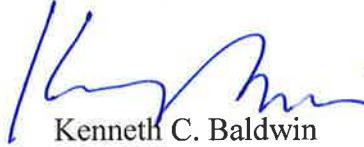
A full copy of the Petition is attached for your review. In accordance with Council requirements, abutting landowners were also sent notice of this filing and a copy of the Petition.

16586642-v1

Christopher R. Schrock
June 12, 2017
Page 2

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

Sincerely,



Kenneth C. Baldwin

Attachment

ATTACHMENT 8

June 12, 2017

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 Wireless Telecommunications Facility at 93 North Airline Road, Wallingford, 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 wireless telecommunications facility at 93 North Airline Road in Wallingford (the “Property”). The facility will consist of a 43-foot wood pole/tower located in the northwest portion of the Property, adjacent to New Rock Hill Road. Cellco will attach two (2) antennas to the top of the pole, a remote radio head, a battery cabinet and related electrical equipment to the pole. The top of the antennas would not extend above the height of the wood pole. A copy of Cellco’s Petition is attached for your review.

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

June 12, 2017
Page 2

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenneth C. Baldwin', with a stylized, flowing script.

Kenneth C. Baldwin

Attachment

CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS

ABUTTERS LIST

**93 NORTH AIRLINE ROAD
WALLINGFORD, CONNECTICUT**

	<u>Property Address</u>	<u>Owner and Mailing Address</u>
1.	I-91 ROW	State of Connecticut Department of Transportation 2800 Berlin Turnpike Newington, CT 06111
2.	97 North Airline Road	Joseph and Rose Carrano 91 North Airline Road Wallingford, CT 06492
3.	146 North Airline Road	Elizabeth and Joseph E. Genite III 146 North Airline Road Wallingford, CT 06492
4.	170 North Airline Road	Gordon E. Gooch Revocable Living Trust Gordon E. Gooch Trustee 611 Lockhaven Road Enfield, NH 03748
5.	174 North Airline Road	John Pacheco 174 North Airline Road Wallingford, CT 06492
6.	184 North Airline Road	Kelly A. Cerrone 184 North Airline Road Wallingford, CT 06492
7.	213 North Airline Road	Suzanne and Paul Powell 213 North Airline Road Wallingford, CT 06492
8.	217 North Airline Road	Gerald Borrelli 217 North Airline Road Wallingford, CT 06492
9.	221 North Airline Road	Michael and Carrie Pyer 221 North Airline Road Wallingford, CT 06492

	<u>Property Address</u>	<u>Owner and Mailing Address</u>
10.	225 North Airline Road	Trevar Sherer 225 North Airline Road Wallingford, CT 06492
11.	229 North Airline Road	Rolanda and Arthur Baw 229 North Airline Road Wallingford, CT 06492
12.	233 North Airline Road	Amy Riddle 233 North Airline Road Wallingford, CT 06492
13.	1047 New Rock Hill Road	William P. and Mary Ellen Morganti 1047 New Rock Hill Road Wallingford, CT 06492
14.	1044 New Rock Hill Road	Michael J. and Nancy Gianotti 1044 New Rock Hill Road Wallingford, CT 06492
15.	1036 New Rock Hill Road	Leona Gordon a/k/a Leona Smillie 1036 New Rock Hill Road Wallingford, CT 06492