

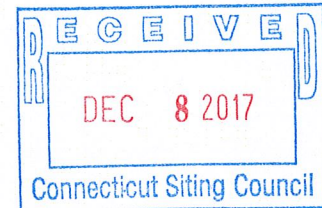
EM-VER-142-171208

Alex Murshteyn, Site Acquisition
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

December 7, 2017

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

ORIGINAL



**RE: Notice of Exempt Modification // Site: Tolland CT (ATC: 302495)
56 Ruops (fka 5 Barbara; aka 1 Eagle Hill) Road, Tolland, CT 06084
N 41.8733 // W -72.3383**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 15 antennas at the 142-foot mount on the existing 150-foot monopole tower, located at 56 Ruops (fka 5 Barbara) Road, Tolland, CT. The tower is owned by American Tower. The property is owned by the Town of Tolland. Verizon Wireless now intends to remove 9 of its antennas to replace with 6 and install side-by-side mounts for these 6 LTE (2100 MHz) replacements for its PCS/AWS/LTE upgrade. Additionally, Verizon Wireless will relocate 3 remote radio heads (RRHs) and thereby install 12 new RRHs on the tower with its new antennas; while updating certain leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

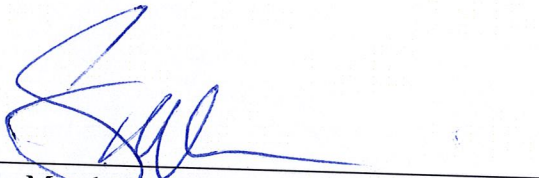
Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to William Eccles, Chair of the Town Council for the Town of Tolland, which is also the underlying property owner, Town's Director of Planning & Development Heidi Samokar, AICP, including for the Planning & Zoning Commission and American Tower, the tower owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated September 27, 2017 by ATC Tower Services, LLC, a structural analysis dated August 25, 2017 by A.T. Engineering Service, PLLC and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by A.T. Engineering Service, PLLC, dated August 25, 2017.

For the foregoing reasons, Verizon Wireless respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,



Alex Murshteyn, Site Acquisition
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
95 Ryan Drive, Suite 1
Raynham, MA 02767
Mobile: (508) 821-0159
AMurshteyn@centerlinecommunications.com

Attachments

cc: William Eccles, Chair, Tolland Town Council - as elected official - 1Z9Y45030311525819
Heidi Samokar, Director of Planning & Development - as P&Z official - 1Z9Y45030316690828
American Tower Corporation - as tower owner - 1Z9Y45030314857830
William Eccles, Chair, Tolland Town Council - as property owner - same as above



AMERICAN TOWER®
CORPORATION

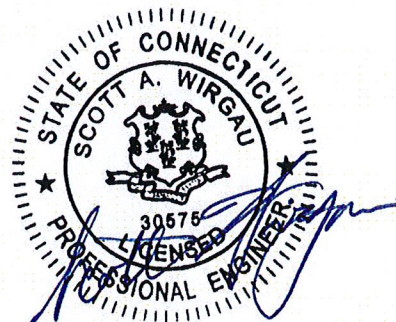
Structural Analysis Report

Structure : 155 ft Monopole
ATC Site Name : Tolland CT, CT
ATC Site Number : 302495
Engineering Number : OAA709616_C3_02
Proposed Carrier : Verizon Wireless
Carrier Site Name : Tolland CT
Carrier Site Number : 324969
Site Location : 5 Barbara Road
Tolland, CT 06084-3116
41.873300,-72.338300
County : Tolland
Date : August 25, 2017
Max Usage : 83%
Result : Pass

Prepared By:
Robert D. Barrett, E.I.
Structural Engineer I

Robert D. Barrett

Reviewed By:



Aug 25 2017 1:28 PM

cosign

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	2
Proposed Equipment	3
Structure Usages	3
Foundations	3
Deflection, Twist, and Sway.....	4
Standard Conditions	5
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 155 ft monopole to reflect the change in loading by Verizon Wireless.

Supporting Documents

Tower Drawings	EEl Drawing #GS50842 Rev 1, dated June 24, 1998
Foundation Drawing	EEl Drawing #F3503-150.N, dated March 2, 1998
Geotechnical Report	ASR Project #12-06077, dated December 1, 2006
Modifications	Spectrasite Drawing #CT-0031-M1, dated November 15, 2004

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	97 mph (3-Second Gust, V_{asd}) / 125 mph (3-Second Gust, V_{ult})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-G / 2012 IBC / 2016 Connecticut State Building Code
Structure Class:	II
Exposure Category:	B
Topographic Category:	1
Crest Height:	0 ft
Spectral Response:	$S_s = 0.17, S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
155.0	164.0	3	EMS RR90-17-02DP	Flush	(6) 1 5/8" Coax	T-Mobile
	159.0	6	Ericsson KRY 112 71/x			
149.0	152.0	1	7' Omni	Platform w/ Handrails	(1) 1 1/4" Coax	Spok Holdings
	149.0	1	Andrew ABT-DMDF-ADBH		(12) 1 1/4" Coax (2) 0.78" 8 AWG 6 (1) 0.39" Fiber Trunk (1) 3" Conduit (1) 3/8" RET Control Cable	AT&T Mobility
		3	Powerwave 7020.00 Dual Band RET			
		6	Kathrein 782-10250			
		6	CCI DTMABP7819VG12A			
		1	Raycap DC6-48-60-18-8F			
		3	Ericsson RRUS 11 (Band 12)			
		3	Ericsson RRUS-12 800MHz			
		3	Powerwave 7770.00			
		6	KMW AM-X-CD-16-65-00T-RET			
142.0	142.0	6	Swedcom ALP 9212-N	Platform w/ Handrails	(15) 1 5/8" Coax (1) 1 5/8" Hybriflex	Verizon Wireless
		1	RFS DB-T1-6Z-8AB-OZ			
133.0	133.0	5	Decibel 980H65T2E-M	Platform w/ Handrails	(9) 1 5/8" Coax	Sprint Nextel
		4	Decibel DB980H90A-KL			
123.0	123.0	12	Decibel DB844H90E-A	Platform w/ Handrails	(12) 1 1/4" Coax	Metro PCS
107.0	107.0	3	Commscope LNX-6515DS-VTM	Flush	(6) 1 1/4" Coax	
105.0	105.0	3	Kathrein Smart Bias Tee	Flush	-	T-Mobile
83.0	83.0	1	GPS	Stand-Off	(1) 1/2" Coax	
63.0	63.0	2	GPS	Stand-Offs	(2) 1/2" Coax	Sprint Nextel
52.0	52.0	1	2" x 4" GPS	Stand-Off	(1) 1/2" Coax	
17.0	17.0	1	4' Std. Dish	Leg	(1) 0.27" RG-6/U	Spok Holdings

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
142.0	142.0	6	Andrew HBXX-6516DS-A2M	-	-	Verizon Wireless
		3	Andrew LNX-6513DS-A1M			
		3	Alcatel-Lucent RRH2X60-AWS			



Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
142.0	142.0	3	Nokia B5 RRH4x40-850	Platform w/ Handrails	(1) 1 5/8" Hybriflex	Verizon Wireless
		3	Alcatel-Lucent RRH2x60 700			
		3	Alcatel-Lucent RRH AWS			
		3	Alcatel-Lucent RRH2x60			
		1	RFS DB-T1-6Z-8AB-0Z			
		6	Commscope JAHH-65B-R3B			

¹Mount elevation is defined as height above bottom of steel structure to the bottom of mount, RAD elevation is defined as center of antenna above ground level (AGL).

Install proposed coax outside the pole shaft. Stacking coax is not allowed.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	74%	Pass
Shaft	83%	Pass
Base Plate	54%	Pass
Flanges	20%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Moment (Kips-Ft)	3,721.7	80%
Axial (Kips)	51.4	5%
Shear (Kips)	33.8	57%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.



Deflection and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Sway (Rotation) (°)
142.0	Nokia B5 RRH4x40-850	Verizon Wireless	2.307	1.835
	Alcatel-Lucent RRH2x60 700			
	Alcatel-Lucent RRH AWS			
	Alcatel-Lucent RRH2x60			
	RFS DB-T1-6Z-8AB-OZ			
	Commscope JAHH-65B-R3B			
17.0	4' Std. Dish	Spok Holdings	0.029	0.196

*Deflection and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-G



Standard Conditions

All engineering services are performed on the basis that the information used is current and correct. This information may consist of, but is not necessary limited, to:

- Information supplied by the client regarding the structure itself, antenna, mounts and feed line loading on the structure and its components, or other relevant information.
- Information from drawings in the possession of American Tower Corporation, or generated by field inspections or measurements of the structure.

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that all structures were constructed in accordance with the drawings and specifications and that their capacity has not significantly changed from the "as new" condition.

Unless explicitly agreed by both the client and American Tower Corporation, all services will be performed in accordance with the current revision of ANSI/TIA -222. The design basic wind speed will be determined based on the minimum basic wind speed as prescribed in ANSI/TIA-222. Although every effort is taken to ensure that the loading considered is adequate to meet the requirements of all applicable regulatory entities, we can provide no assurance to meet any other local and state codes or requirements. If wind and ice loads or other relevant parameters are to be different from the minimum values recommended by the codes, the client shall specify the exact requirement.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information we supply.

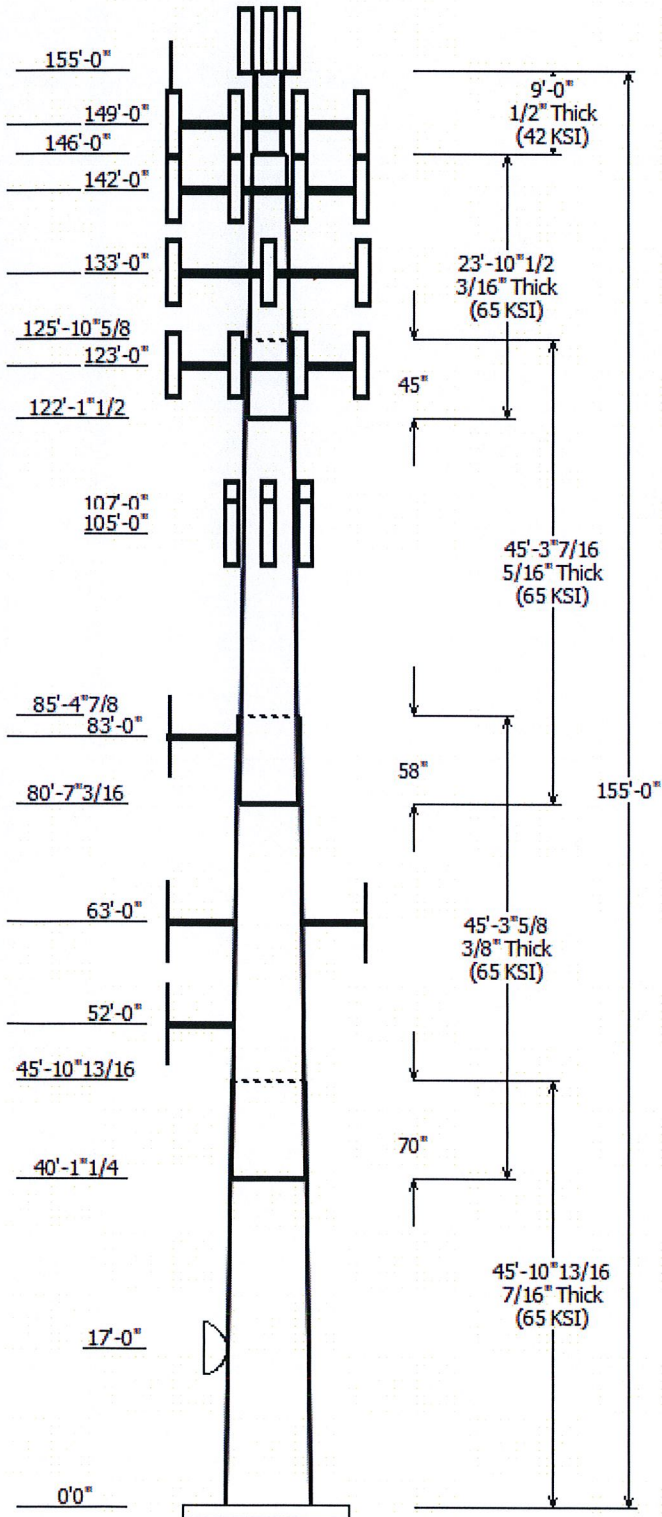
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Job Information	
Pole :	302495
Code:	ANSI/TIA-222-G
Description :	EEL 155' Monopole - Model verified 4/25/12
Client :	Verizon Wireless
Struct Class :	II
Location :	Tolland CT, CT
Shape :	12 Sides
Exposure :	B
Height :	155.00 (ft)
Topo :	1
Base Elev (ft):	0.00
Taper:	0.210616(in/ft)

Sections Properties								
Shaft Section	Length (ft)	Diameter (in)			Joint Type	Overlap Length (in)	Steel Taper (in/ft)	Steel Grade (ksi)
		Accross Top	Flats Bottom	Thick (in)				
1	45.898	40.33	50.00	0.438	0.000	0.210600	65	
2	45.302	32.76	42.30	0.375	Slip Joint	69.531	0.210600	
3	45.286	24.86	34.40	0.313	Slip Joint	57.688	0.210600	
4	23.878	21.00	26.02	0.188	Slip Joint	45.156	0.210600	
5	9.000	16.00	16.00	0.500	Butt Joint	0.000	0.000000	

Discrete Appurtenance			
Attach Elev (ft)	Force Elev (ft)	Qty	Description
155.000	155.000	1	Canister
155.000	159.000	6	Ericsson KRY 112 71/x
155.000	164.000	3	EMS RR90-17-02DP
149.000	149.000	3	Ericsson RRUS-12 800 MHz
149.000	149.000	1	Raycap DC6-48-60-18-8F
149.000	152.000	1	7' Omni
149.000	149.000	3	Powerwave Alligon 7770.00
149.000	149.000	1	Flat Platform w/ Handrails
149.000	149.000	3	Powerwave Alligon 7020.00
149.000	149.000	6	KMW AM-X-CD-16-65-00T-RET
149.000	149.000	3	Ericsson RRUS 11 (Band 12)
149.000	149.000	6	CCI DTMAPB7819VG12A
149.000	149.000	6	Kathrein Scala 782-10250
149.000	149.000	1	Andrew ABT-DMDF-ADBH
142.000	142.000	6	Commscope JAHH-65B-R3B
142.000	142.000	3	Alcatel-Lucent RRH2x60
142.000	142.000	3	Alcatel-Lucent RRH AWS
142.000	142.000	3	Alcatel-Lucent RRH2x60 700
142.000	142.000	3	Nokia B5 RRH4x40-850
142.000	142.000	1	RFS DB-T1-6Z-8AB-0Z
142.000	142.000	1	Flat Platform w/ Handrails
142.000	142.000	1	RFS DB-T1-6Z-8AB-0Z
142.000	142.000	6	Swedcom ALP 9212-N
133.000	133.000	1	Flat Platform w/ Handrails
133.000	133.000	4	Decibel DB980H90A-KL
133.000	133.000	5	Decibel 980H65T2E-M
123.000	123.000	12	Decibel DB844H90E-A
123.000	123.000	1	Flat Platform w/ Handrails
107.000	107.000	3	Commscope LNX-6515DS-VTM
105.000	105.000	3	Kathrein Smart Bias Tee
83.000	83.000	1	Stand-Off
83.000	83.000	1	GPS
63.000	63.000	2	Stand-Off
63.000	63.000	2	GPS
52.000	52.000	1	Stand-Off
52.000	52.000	1	2" x 4" GPS
17.000	17.000	1	4' Std. Dish

Linear Appurtenance			
Elev (ft) From	To	Description	Exposed To Wind

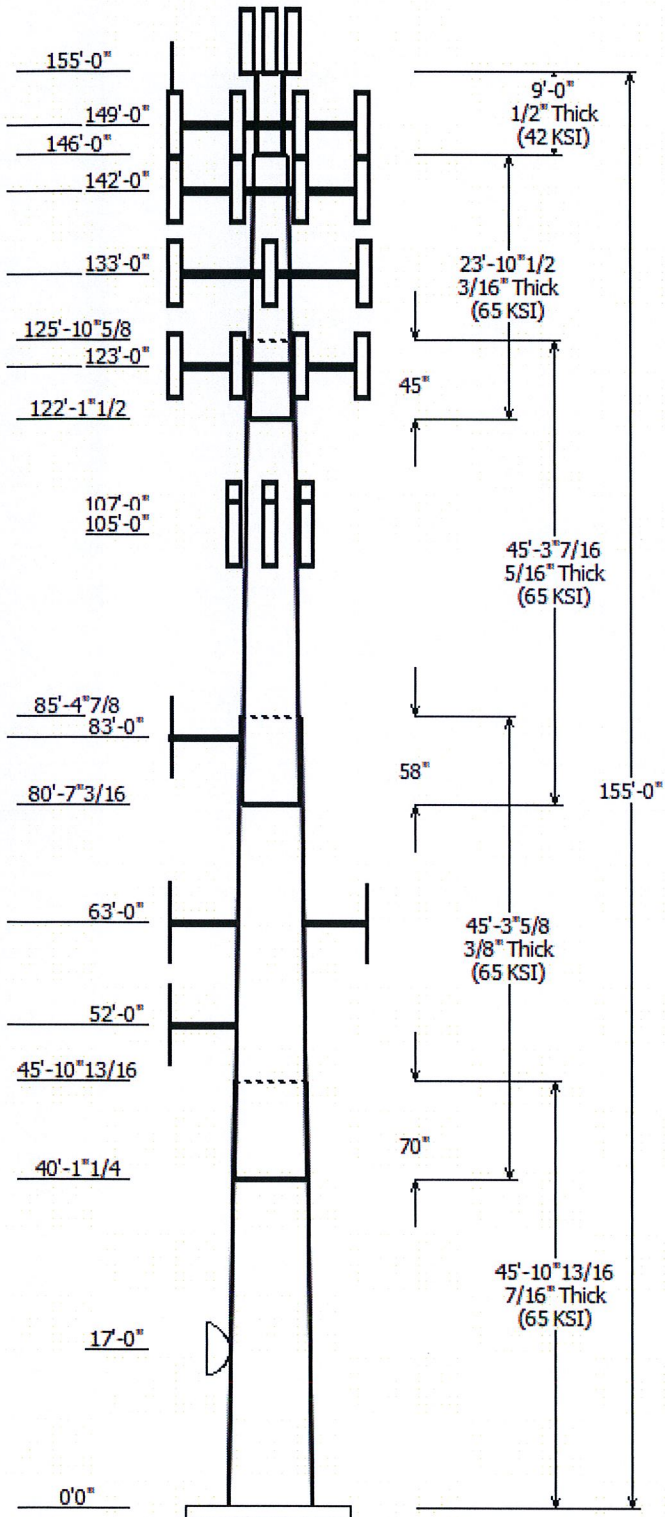


120.0	149.0	Climbing Ladder	Yes
0.000	155.0	1 5/8" Coax	No
0.000	17.000	0.27" RG-6/U	Yes
0.000	52.000	1/2" Coax	Yes
0.000	63.000	1/2" Coax	Yes
0.000	83.000	1/2" Coax	Yes
0.000	107.0	1 1/4" Coax	Yes
0.000	123.0	1 1/4" Coax	No
0.000	133.0	1 5/8" Coax	No
0.000	142.0	1 5/8" Coax	Yes
0.000	142.0	1 5/8" Coax	No
0.000	142.0	1 5/8" Hybriflex	Yes
0.000	142.0	1 5/8" Hybriflex	Yes
0.000	149.0	0.39" Fiber Trunk	No
0.000	149.0	0.78" 8 AWG 6	No
0.000	149.0	1 1/4" Coax	No
0.000	149.0	1 1/4" Coax	Yes
0.000	149.0	1 1/4" Coax	No
0.000	149.0	3" Conduit	No
0.000	149.0	3/8" RET Control	No

Load Cases	
1.2D + 1.6W	97 mph with No Ice
0.9D + 1.6W	97 mph with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi	50 mph with 1.00 in Radial Ice
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Lateral Forces Method
(1.2 + 0.2Sds) * DL + E	Seismic Equivalent Modal Analysis Method
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Lateral
(0.9 - 0.2Sds) * DL + E	Seismic (Reduced DL) Equivalent Modal
1.0D + 1.0W	Serviceability 60 mph

Reactions			
Load Case	Moment (kip-ft)	Shear (kip)	Axial (kip)
1.2D + 1.6W	3721.74	33.84	51.43
0.9D + 1.6W	3634.25	33.60	38.56
1.2D + 1.0Di + 1.0Wi	1025.84	8.26	96.98
(1.2 + 0.2Sds) * DL + E ELFM	221.81	1.68	51.99
(1.2 + 0.2Sds) * DL + E EMAM	313.72	2.53	51.99
(0.9 - 0.2Sds) * DL + E ELFM	217.00	1.67	36.25
(0.9 - 0.2Sds) * DL + E EMAM	306.78	2.53	36.25
1.0D + 1.0W	875.87	8.04	42.89

Dish Deflections			
Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)
1.0D + 1.0W	17.00	0.347	0.196



Site Name: Tolland 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	1	5181	5181	140	0.0951	1.0	9.51%
VZW Cellular	869	9	317	2853	140	0.0523	0.5793333333	9.04%
VZW 850 LTE	869	1	3710	3710	140	0.0681	0.5793333333	11.75%
VZW AWS	2145	1	8326	8326	140	0.1528	1.0	15.28%
VZW 700	746	1	2063	2063	140	0.0379	0.4973333333	7.61%

Total Percentage of Maximum Permissible Exposure 53.18%

*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/cm² = 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.



Property Information	
Property ID	23/E/051
Location	1 EAGLE HILL
Owner	TOWN OF TOLLAND


**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Town of Tolland, CT makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Properties updated 12/05/2017

Terms of Use

1 EAGLE HILL

Location 1 EAGLE HILL

Mblu 23/ E/ 51/00 /

Acct# 6783

Owner TOWN OF TOLLAND

Assessment \$47,896,000

Appraisal \$68,422,700

PID 3893

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2014	\$65,645,700	\$2,777,000	\$68,422,700
Assessment			
Valuation Year	Improvements	Land	Total
2014	\$45,952,100	\$1,943,900	\$47,896,000

Owner of Record

Owner TOWN OF TOLLAND

Sale Price \$850,000

Co-Owner

Certificate

Address 21 TOLLAND GREEN

Book & Page 819/ 81

TOLLAND, CT 06084-0000

Sale Date 04/24/2003

Instrument 15

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
TOWN OF TOLLAND	\$850,000		819/ 81	15	04/24/2003
RUOPS ALBERT J TRUSTEE U TR	\$0		396/ 288	29	06/16/1960

Building Information

Building 1 : Section 1

Year Built: 2005
Living Area: 258,330
Replacement Cost: \$69,099,782
Building Percent Good: 91
Replacement Cost Less Depreciation: \$62,880,800

Building Attributes

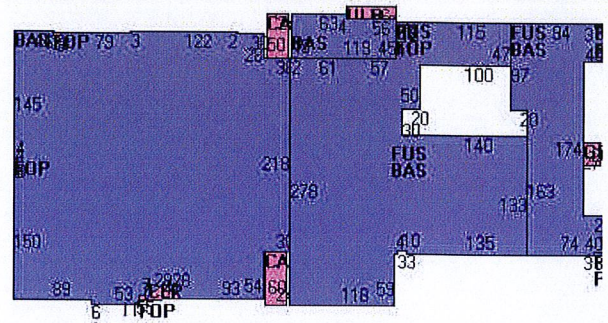
Field	Description
STYLE	Schools-Public
MODEL	Commercial
Grade	Excellent
Stories:	2
Occupancy	1
Ext Wall 1	Brick Veneer
Exterior Wall 2	Reinforc Concr
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	Drywall/Sheet
Interior Floor 1	Vinyl/Asphalt
Interior Floor 2	
Heating Fuel	Oil
Heating Type	Hot Water
AC Type	Vapor Cooler
Bldg Use	Municipal
Total Rooms	70
Total Bedrms	0
Total Baths	0
Solar	
1st Floor Use:	901C
Heat/AC	Heat/AC Split
Frame Type	Fireprf Steel
Baths/Plumbing	Average
Ceiling/Wall	Sus Ceil Min W
Rooms/Prtns	Above Average
Wall Height	16
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos/TollandCTPhotos//\00\00\69\90.jpg)

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	Main Floor	177,914	177,914
FUS	Finished Upper Story	80,416	80,416
CAN	Canopy	2,640	0
CLP	Covered Loading Platform	380	0
FOP	Open Porch	202	0
GRN	Green House	540	0
ULP	Loading Platform	728	0
		262,820	258,330

Extra Features

Extra Features				Legend
Code	Description	Size	Value	Bldg #
SPR1	SPRINKLERS-WET	248306 S.F.	\$180,800	1
ELV	ELEVATOR	1 UNITS	\$24,600	1

Land

Land Use

Use Code 901C
Description Municipal
Zone RDD
Neighborhood 350C
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 68.5
Frontage 1351
Depth
Assessed Value \$1,943,900
Appraised Value \$2,777,000

Outbuildings

Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV	PAVING	A	Asphalt	480000 S.F.	\$645,100	1
FN	FENCE	CL4	4' Chain Link	7500 L.F.	\$50,400	1
PLS	POLES	L1	Lighting	48 UNITS	\$121,000	1
BALL	FIELD HARD			1 UNITS	\$702,000	1
TRL1	TRAILER	A	Storage	640 S.F.	\$9,600	1
FGR	GARAGE	1F	1Story Frame	720 S.F.	\$16,800	1
FGR	GARAGE	1F	1Story Frame	720 S.F.	\$16,800	1
SHD	SHED	1LT	1 Stry Lean To	1024 S.F.	\$9,200	1
BALL	FIELD HARD			2 UNITS	\$650,000	1
AF	ATHLETIC FLD	FB	Football	1 UNITS	\$126,000	1
AF	ATHLETIC FLD	RT	Running Trck	1 UNITS	\$210,000	1
SHD	SHED	1F	1 Stry Frame	160 S.F.	\$2,600	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$65,645,700	\$2,777,000	\$68,422,700
2014	\$65,645,700	\$2,777,000	\$68,422,700
2013	\$62,968,300	\$3,111,000	\$66,079,300

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$45,952,100	\$1,943,900	\$47,896,000
2014	\$45,952,100	\$1,943,900	\$47,896,000
2013	\$44,077,800	\$2,177,700	\$46,255,500

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56 RUOPS ROAD

Location 56 RUOPS ROAD

Mblu 23/ E/ 51/ /

Acct# 5384

Owner TOWN OF TOLLAND

Assessment \$985,200

Appraisal \$1,407,400

PID 3892

Building Count 1

Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2014	\$124,100	\$1,283,300	\$1,407,400
Assessment			
Valuation Year	Improvements	Land	Total
2014	\$86,900	\$898,300	\$985,200

Owner of Record

Owner TOWN OF TOLLAND
Co-Owner C/O SPECTRASITE COMMUNICATIONS
Address PO BOX 723597
 ATLANTA, GA 31139

Sale Price \$0
Certificate
Book & Page 819/ 81
Sale Date 04/24/2003
Instrument 15

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
TOWN OF TOLLAND	\$0		819/ 81	15	04/24/2003

Building Information

Building 1 : Section 1

Year Built: 1989
Living Area: 1,132
Replacement Cost: \$139,802
Building Percent Good: 85
Replacement Cost Less Depreciation: \$118,800

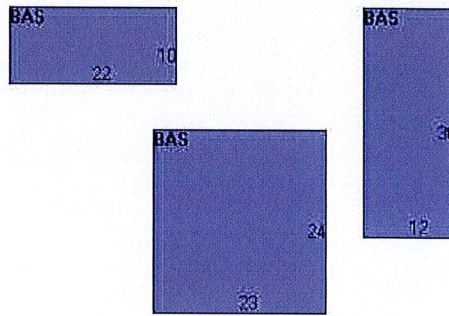
Building Attributes	
Field	Description
STYLE	Communications Bld
MODEL	Ind/Comm
Grade	Average
Stories:	1
Occupancy	1
Ext Wall 1	Poly-Steel/Con
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Wall 2	
Interior Floor 1	Concr-Finished
Interior Floor 2	
Heating Fuel	Electric
Heating Type	Hot Air-no Duc
AC Type	Heat Pump
Bldg Use	Industrial
Total Rooms	
Total Bedrms	
Total Baths	
Solar	
1st Floor Use:	300
Heat/AC	Heat/AC Pkg
Frame Type	Masonry
Baths/Plumbing	None
Ceiling/Wall	None
Rooms/Prtns	Light
Wall Height	8
% Comn Wall	

Building Photo



(http://images.vgsi.com/photos/TollandCTPhotos//\00\00\63\46.jpg)

Building Layout



Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	Main Floor	1,132	1,132
		1,132	1,132

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 300
Description Industrial
Zone RDD
Neighborhood 350C
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 0.78
Frontage 2973
Depth
Assessed Value \$898,300
Appraised Value \$1,283,300

Outbuildings

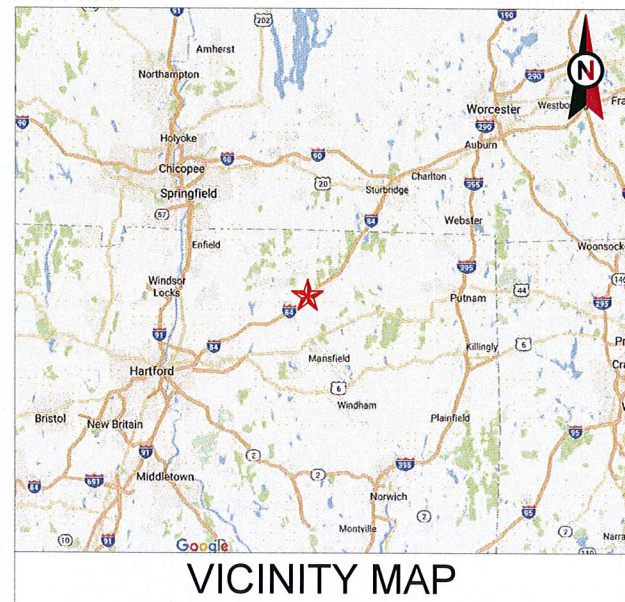
Outbuildings						Legend
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FN	FENCE	CL8	8' Chain Link	380 L.F.	\$5,300	1

Valuation History

Appraisal			
Valuation Year	Improvements	Land	Total
2015	\$124,100	\$1,283,300	\$1,407,400
2014	\$124,100	\$1,283,300	\$1,407,400
2013	\$107,300	\$487,400	\$594,700

Assessment			
Valuation Year	Improvements	Land	Total
2015	\$86,900	\$898,300	\$985,200
2014	\$86,900	\$898,300	\$985,200
2013	\$75,100	\$341,200	\$416,300

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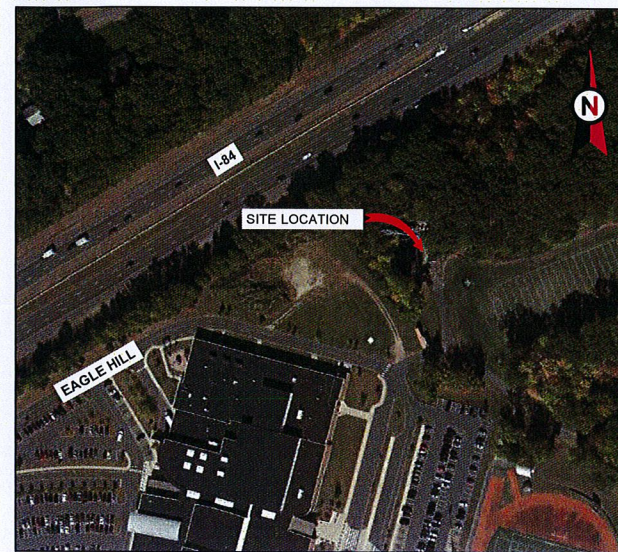


VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: TOLLAND CT
 ATC SITE NUMBER: 302495
 VERIZON SITE NAME: TOLLAND CT
 SITE ADDRESS: 5 BARBARA RD
 TOLLAND, CT 06084



LOCATION MAP

**VERIZON WIRELESS
 ANTENNA AMENDMENT DRAWINGS**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
<p>ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.</p> <p>1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES</p>	<p><u>SITE ADDRESS:</u> 5 BARBARA RD TOLLAND, CT 06084 COUNTY: TOLLAND</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.87333 LONGITUDE: -72.3383 GROUND ELEVATION: 695' AMSL</p>	<p>THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW.</p> <p>REMOVE (9) PANELS</p> <p>INSTALL (6) NEW PANELS AND (9) RRU'S</p> <p>EXISTING (6) PANELS, (3) RRU'S, (15) 1-5/8" COAX CABLES, (2) 1-5/8" HYBRID CABLES, AND (2) OVP'S TO REMAIN</p>	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
		<p>PROJECT NOTES</p> <p>1. THE FACILITY IS UNMANNED.</p> <p>2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.</p> <p>3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.</p> <p>4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.</p> <p>5. HANDICAP ACCESS IS NOT REQUIRED.</p>	G-001	COVER SHEET	0	09/27/17	BRL
		<p>PROJECT LOCATION DIRECTIONS</p> <p>FROM HARTFORD, CT:</p> <p>TAKE I-84 E TO EXIT 68. TURN RIGHT ONTO RT 195. AT LIGHT TURN LEFT ON RHODES RD (ABOUT .3 MILES) FOLLOW FOR 2 MILES THEN TURN LEFT ON KATE RD. FOLLOW FOR ABOUT .8 MILES AND TURN LEFT ON ROUPS RD. ACCESS ROAD IS AT THE END.</p>	G-002	GENERAL NOTES	0	09/27/17	BRL
<p>UTILITY COMPANIES</p> <p>POWER COMPANY: CONNECTICUT LIGHT & POWER PHONE: (800) 322-3223</p> <p>TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 921-8102</p>	<p>PROJECT TEAM</p> <p><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</p> <p><u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518</p> <p><u>PROPERTY OWNER:</u> VINCENT RUOPS 40 VAALCOM ROAD TOLLAND, CT 06084</p>	<p><u>APPLICANT:</u> VERIZON WIRELESS 99 EAST RIVER DRIVE, 9TH FLOOR EAST HARTFORD, CT 06108</p>	C-101	DETAILED SITE PLAN	0	09/27/17	BRL
			C-501	RF SCHEDULE AND ANTENNA INSTALLATION	0	09/27/17	BRL
				C-502	CONSTRUCTION DETAILS	0	09/27/17

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0	FOR CONSTRUCTION	BRL	09/27/17

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302495

ATC SITE NAME:
TOLLAND CT

SITE ADDRESS:
 5 BARBARA RD
 TOLLAND, CT 06084

SEAL:

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DRAWN BY:	BRL
APPROVED BY:	KRF
DATE DRAWN:	09/27/17
ATC JOB NO:	12142575
CUSTOMER ID:	TOLLAND CT

COVER SHEET

SHEET NUMBER: G-001	REVISION: 0
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GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANS/EIA/TIA-222, AND COMPLY WITH ATC MASTER SPECIFICATIONS.
2. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
4. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
5. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
6. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
7. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
9. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
10. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON WIRELESS REP PRIOR TO PROCEEDING.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON WIRELESS REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
12. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
13. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
14. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON WIRELESS REP IMMEDIATELY.
15. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
16. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
17. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
18. CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
19. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
20. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
24. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
25. CONTRACTOR SHALL NOTIFY VERIZON WIRELESS REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
26. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.

27. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
28. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON WIRELESS REP. ANY WORK FOUND BY THE VERIZON WIRELESS REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
29. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
 - A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
 - B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
 - C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
 - D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
 - E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.
5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
 - A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
 - B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
 - C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
 - D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
 - E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
 - F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
 - G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING 1/2" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.



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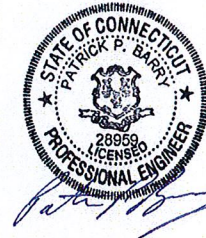
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302495
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 TOLLAND, CT 06084

SEAL:



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DRAWN BY:	BRL
APPROVED BY:	KRF
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ATC JOB NO:	12142575
CUSTOMER ID:	TOLLAND CT

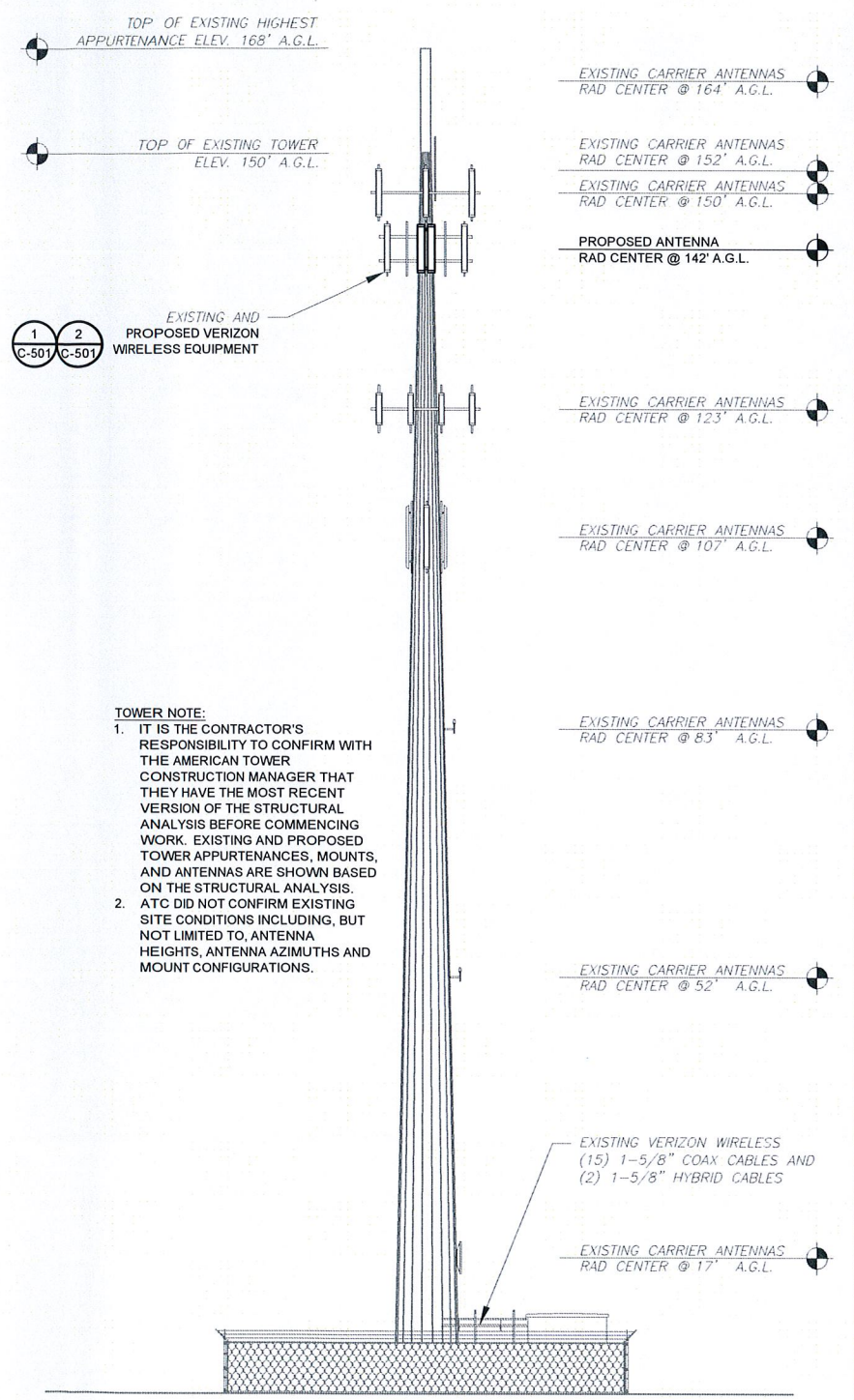
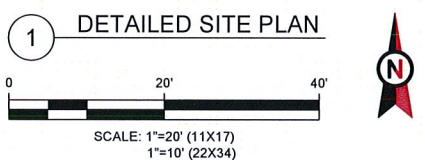
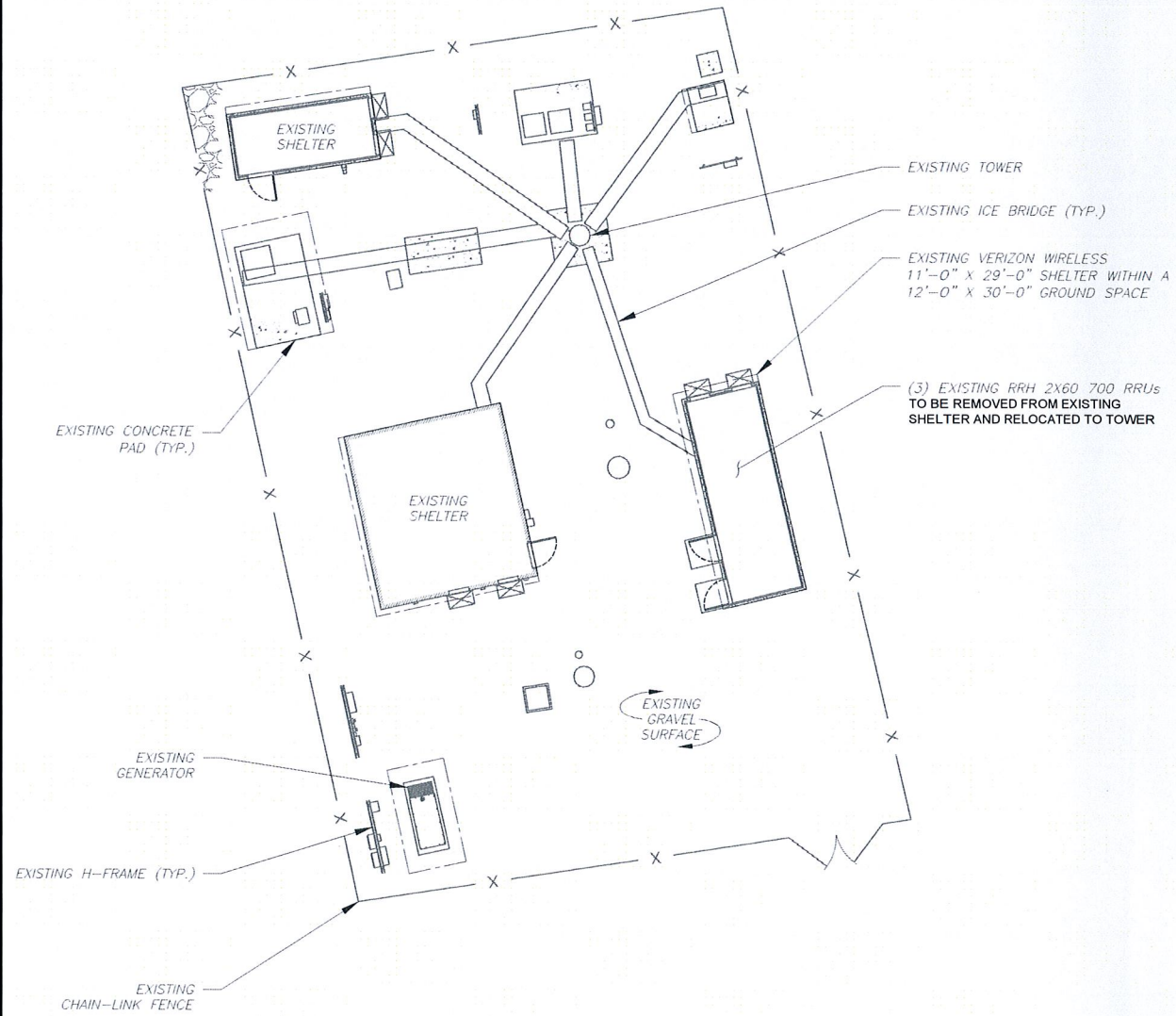
GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, CABLE SUPPORTS, AND CABLES ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE INSTALLING NEW CABLE SUPPORT STRUCTURES, COAX PORTS, OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ATC CONSTRUCTION MANAGER AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.



TOWER NOTE:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATIONS.

2 TOWER ELEVATION
SCALE: NOT TO SCALE

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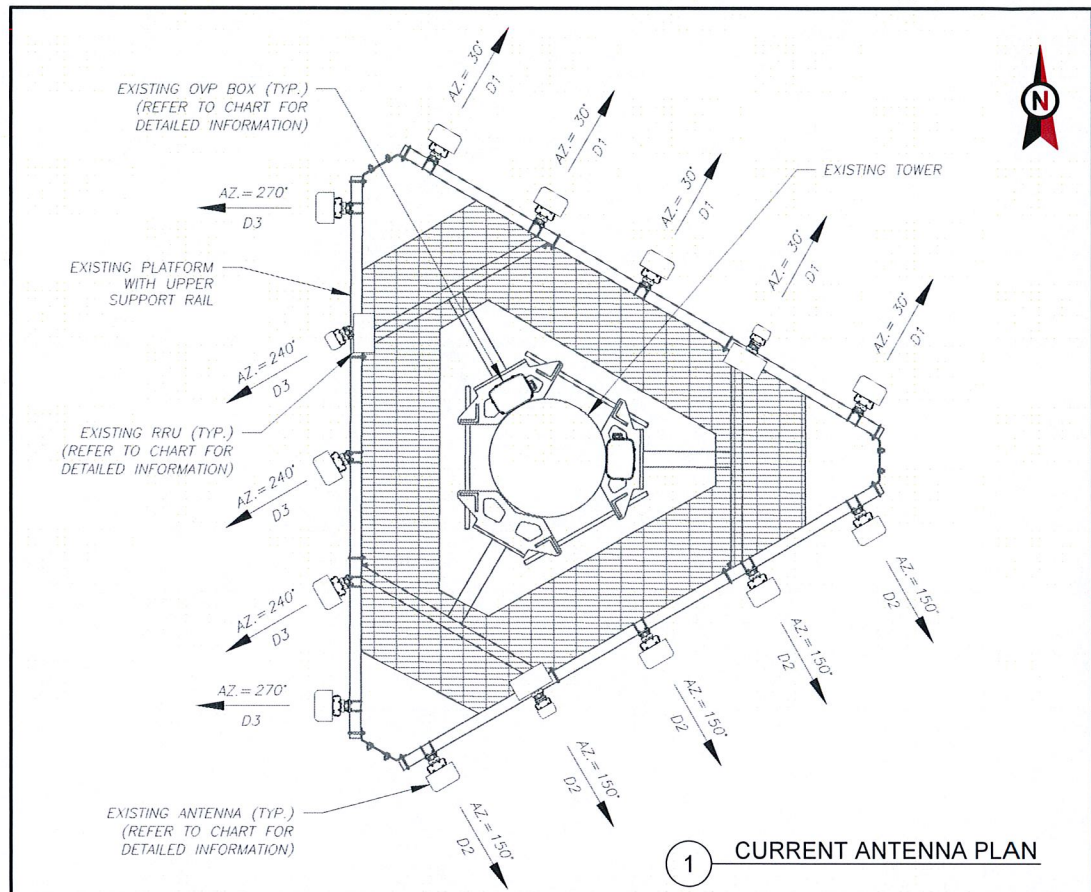
verizon

DRAWN BY:	BRL
APPROVED BY:	KRF
DATE DRAWN:	09/27/17
ATC JOB NO:	12142575
CUSTOMER ID:	TOLLAND CT

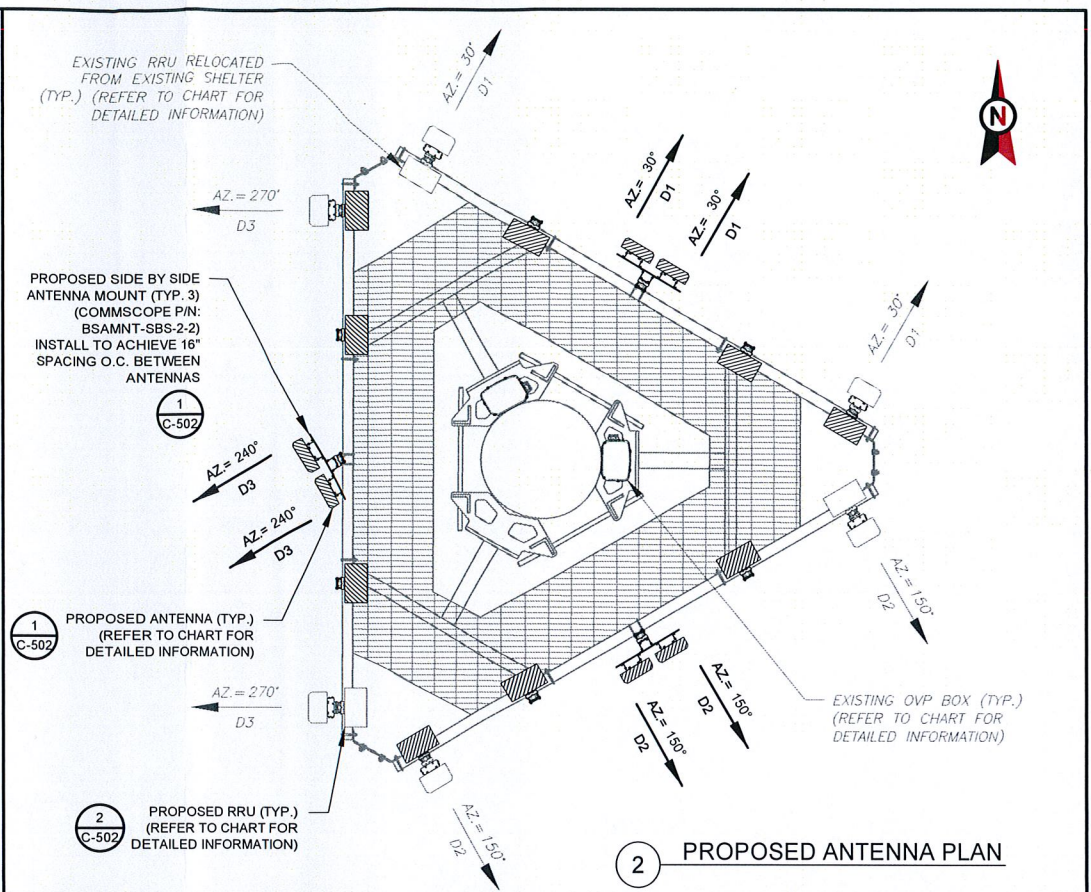
DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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1 CURRENT ANTENNA PLAN



2 PROPOSED ANTENNA PLAN

CURRENT ANTENNA AND RF EQUIPMENT SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	BAND	MODEL NUMBER	STATUS	POS	MODEL NUMBER	STATUS
D1	142'	30°	1	850 CDMA	SC-9012/ALPE-9011	RMN	1	-	-
		30°	2	700	LNX-6513DS-A1M	RMV	2	-	-
		30°	3	2100	HBXX-6516DS-A2M	RMV	3	-	-
		30°	4	2100	HBXX-6516DS-A2M	RMV	4	RRH 2X60 AWS	RMV
		30°	5	850 CDMA	SC-9012/ALPE-9011	RMN	5	-	-
D2	142'	150°	1	850 CDMA	SC-9012/ALPE-9011	RMN	1	-	-
		150°	2	700	LNX-6513DS-A1M	RMV	2	-	-
		150°	3	2100	HBXX-6516DS-A2M	RMV	3	-	-
		150°	4	2100	HBXX-6516DS-A2M	RMV	4	RRH 2X60 AWS	RMV
		150°	5	850 CDMA	SC-9012/ALPE-9011	RMN	5	-	-
D3	142'	270°	1	850 CDMA	SC-9012/ALPE-9011	RMN	1	-	-
		240°	2	700	LNX-6513DS-A1M	RMV	2	-	-
		240°	3	2100	HBXX-6516DS-A2M	RMV	3	-	-
		240°	4	2100	HBXX-6516DS-A2M	RMV	4	RRH 2X60 AWS	RMV
		270°	5	850 CDMA	SC-9012/ALPE-9011	RMN	5	-	-

NOTES

- BASED ON APPROVED ATC APPLICATION OAA709616, DATED 8-11-2017. CONFIRM WITH VERIZON WIRELESS REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS.
- ATC HAS NOT YET VERIFIED ANY EXISTING ANTENNA CONFIGURATION OR MOUNT CONFIGURATION. CONTRACTOR TO VERIFY MOUNT CONFIGURATION HAS SUFFICIENT SPACE FOR PROPOSED LESSEE EQUIPMENT (I.E. CLEARANCES, MOUNT PIPE OR SUFFICIENT LENGTH, ETC.) ATC DID NOT ANALYZE ANTENNA MOUNT TO DETERMINE ADEQUATE STRUCTURAL CAPACITY FOR ANY LESSEE LOADING.
- ALL PROPOSED EQUIPMENT INCLUDING ANTENNAS, COAX, ETC. SHALL BE MOUNTED IN ACCORDANCE WITH THE TOWER STRUCTURAL ANALYSIS ON FILE WITH THE ATC CM.
- CONFIRM SPACING OF PROPOSED EQUIPMENT DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
- POSITIONS START WITH FIRST PIPE ON THE LEFT SIDE (AS VIEWED FROM BEHIND THE MOUNT).
- VERIFY LOCATION OF EXISTING OVPS IN FIELD.

PROPOSED ANTENNA AND RF EQUIPMENT SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	BAND	MODEL NUMBER	STATUS	POS	MODEL NUMBER	STATUS
D1	142'	30°	1	850 CDMA	SC-9012/ALPE-9011	RMN	1	RRH 2X60 700	REL
		-	2	-	EMPTY PIPE	-	2	RRH 2X90 AWS	ADD
		30°	3	2100	(2) JAHH-65BR3B	ADD	3	-	-
		-	4	-	EMPTY PIPE	-	4	RRH 2X60 PCS	ADD
		30°	5	850 CDMA	SC-9012/ALPE-9011	RMN	5	RRH 4X40 850	ADD
D2	142'	150°	1	850 CDMA	SC-9012/ALPE-9011	RMN	1	RRH 2X60 700	REL
		-	2	-	EMPTY PIPE	-	2	RRH 2X90 AWS	ADD
		150°	3	2100	(2) JAHH-65BR3B	ADD	3	-	-
		-	4	-	EMPTY PIPE	-	4	RRH 2X60 PCS	ADD
		150°	5	850 CDMA	SC-9012/ALPE-9011	RMN	5	RRH 4X40 850	ADD
D3	142'	270°	1	850 CDMA	SC-9012/ALPE-9011	RMN	1	RRH 2X60 700	REL
		-	2	-	EMPTY PIPE	-	2	RRH 2X90 AWS	ADD
		240°	3	2100	(2) JAHH-65BR3B	ADD	3	-	-
		-	4	-	EMPTY PIPE	-	4	RRH 2X60 PCS	ADD
		270°	5	850 CDMA	SC-9012/ALPE-9011	RMN	5	RRH 4X40 850	ADD

CURRENT FIBER DISTRIBUTION / OVP BOX					CURRENT CABLING SUMMARY		
LOCATION	POS	BAND	MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
TOWER	N/A	-	(2) DB-T1-6Z-8AB-OZ	RMN	(15) 1-5/8"	(2) 1-5/8"	RMN

STATUS ABBREVIATIONS
 RMV: TO BE REMOVED DSC: TO BE DISCONNECTED
 RMN: TO REMAIN AND TO REMAIN
 REL: TO BE RELOCATED

3 ANTENNA AND RF EQUIPMENT SCHEDULES

AMERICAN TOWER SERVICES
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 6260F

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	BRL	09/27/17

ATC SITE NUMBER:
302495

ATC SITE NAME:
TOLLAND CT

SITE ADDRESS:
5 BARBARA RD
TOLLAND, CT 06084

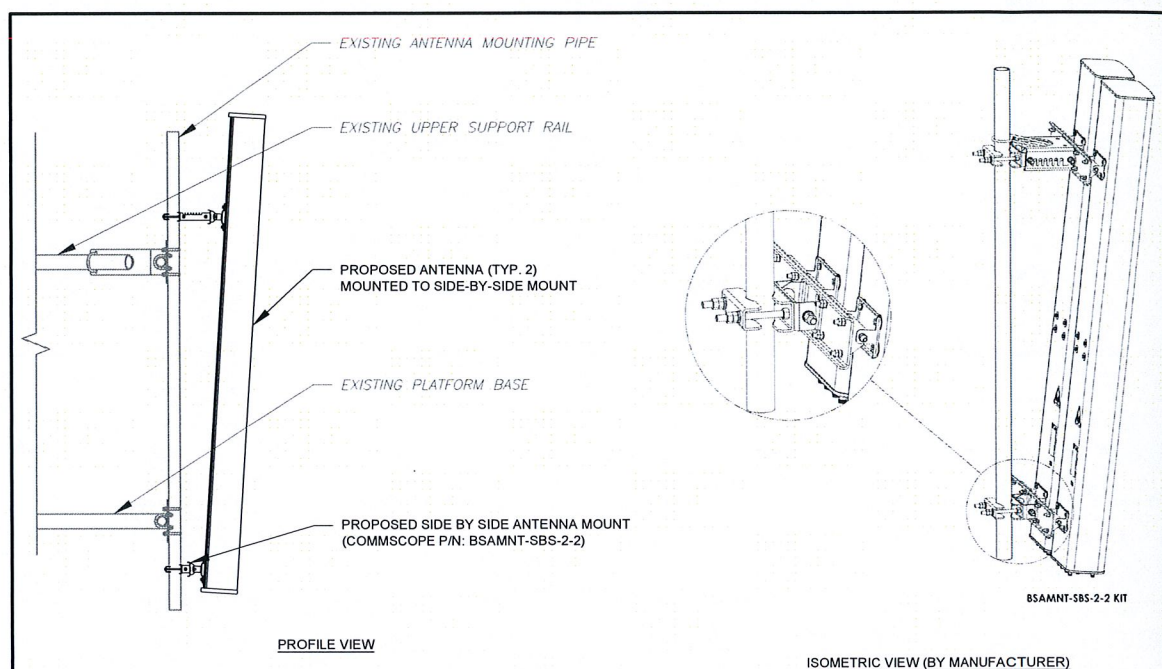
SEAL:

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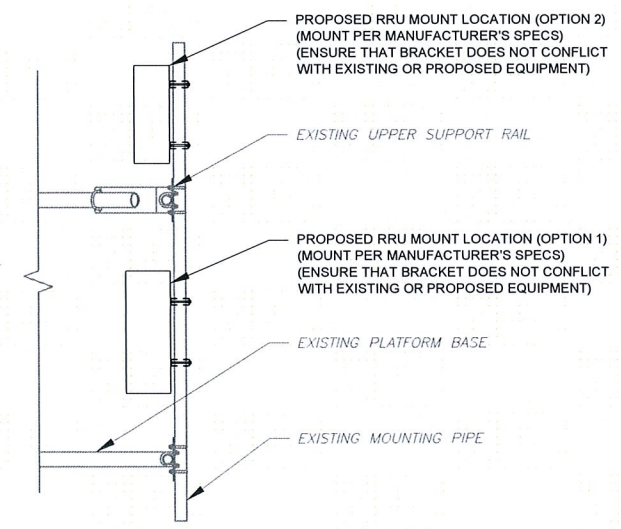
DRAWN BY:	BRL
APPROVED BY:	KRF
DATE DRAWN:	09/27/17
ATC JOB NO:	12142575
CUSTOMER ID:	TOLLAND CT

RF SCHEDULE AND ANTENNA INSTALLATION

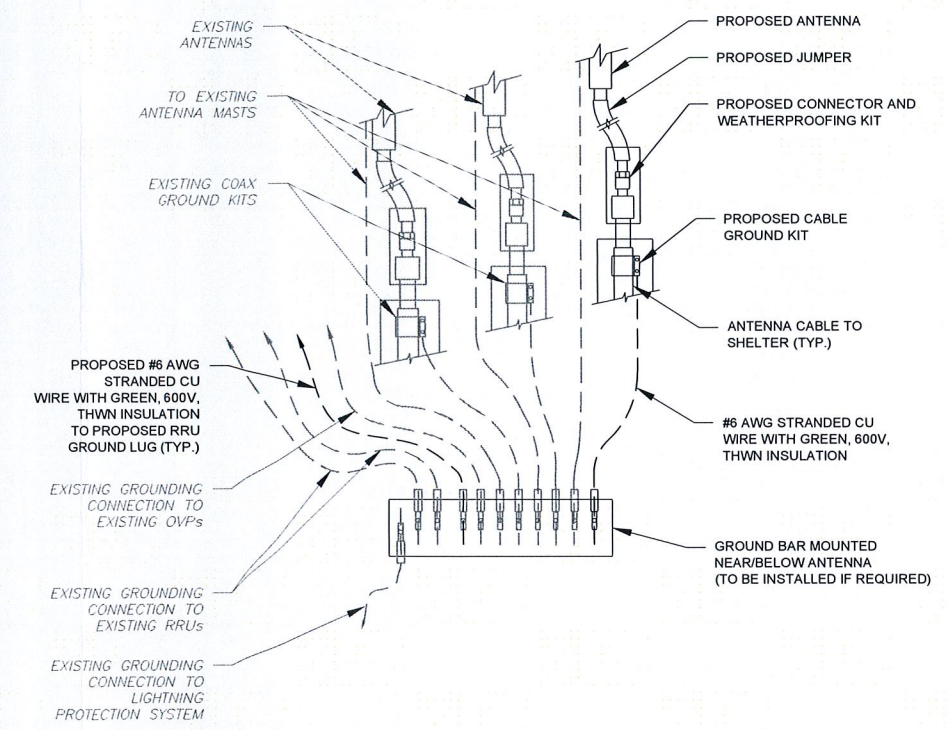
SHEET NUMBER:	REVISION:
C-501	0



1 PROPOSED SIDE-BY-SIDE MOUNT



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL



- NOTES:
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
 2. SITE GROUNDING SHALL COMPLY WITH VERIZON WIRELESS GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON WIRELESS GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

3 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

AMERICAN TOWER®
ATC TOWER SERVICES
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 6260F

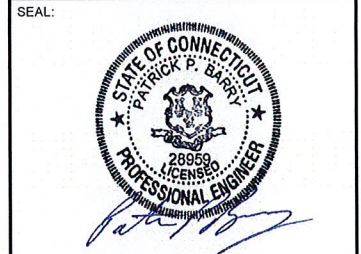
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ATC SITE NUMBER:
302495

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SITE ADDRESS:
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 TOLLAND, CT 06084



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**CONSTRUCTION
 DETAILS**

SHEET NUMBER:	REVISION:
C-502	0

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