

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

January 12, 2017

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

**RE: Notice of Exempt Modification // Site: Little City CT (ATC: 88013)
133 (fka 131) Little City Road, Killingworth, CT 06419
N 41. 42877 // W 72. 6038**

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 12 antennas at the 171-foot mount on the existing 302.5-foot monopole tower, located at (133) Little City Road, Killingworth, CT. The tower and property are both owned by American Tower. Verizon Wireless now intends to remove 6 of its antennas to replace with 6 and install side-by-side mounts for these 6 LTE (700/850/1900 MHz) replacements for its PCS/AWS/LTE upgrade. Additionally, Verizon Wireless will install 12 new remote radio heads (RRHs) on the tower with its new antennas and add 2 hybrid fiber lines to its 10 coax; while updating certain leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

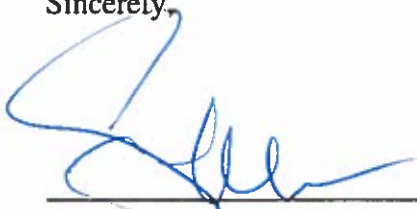
Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Catherine Iino, First Selectwoman for the Town of Killingworth, its Zoning Enforcement Officer Cathie S. Jefferson, including for the Planning and Zoning Commission and American Tower, the tower and property 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 December 5, 2017 by ATC Tower Services, LLC, a structural analysis dated January 3, 2018 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 January 3, 2018.

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 Consultant
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
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AMurshteyn@centerlinecommunications.com

Attachments

cc: Catherine Iino, First Selectwoman - as elected official - 1Z9Y45030325587674
Cathie S. Jefferson, Zoning Enforcement Officer - as P&Z official - 1Z9Y45030329578284
American Tower Corporation - as tower owner - 1Z9Y45030321361898
American Tower Corporation - as property owner - same as above



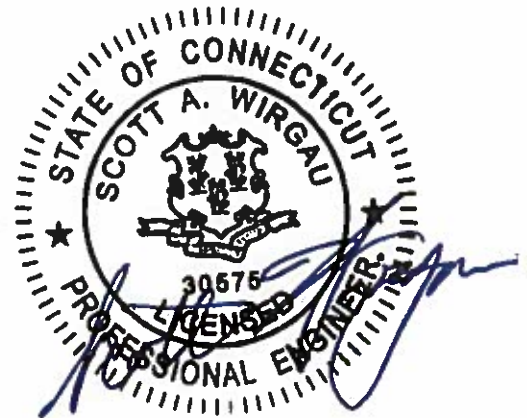
AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 302.5 ft Self Supported AT&T TAG Tower
ATC Site Name : Killingworth, CT
ATC Site Number : 88013
Engineering Number : OAA720121_C3_01
Proposed Carrier : Verizon Wireless
Carrier Site Name : Little City CT
Carrier Site Number : PSLC# 467315
Site Location : Little City Road
Killingworth, CT 06419-1014
41.428800,-72.603800
County : Middlesex
Date : January 3, 2018
Max Usage : 95%
Result : Pass

Prepared By:
Aaron Black
Structural Engineer I

Reviewed By:



Jan 4 2018 4:48 PM **cosign**

COA: PEC.0001553



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Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 302.5 ft self-supported AT&T TAG tower to reflect the change in loading by Verizon Wireless.

Supporting Documents

Tower Drawings	Mapping by TEP Job #080167, dated February 1, 2008
Foundation Drawing	Mapping by Geotel Report #E08-150-F, dated February 20, 2008
Geotechnical Report	Geotel Report #E08-150-G, dated February 20, 2008
Modifications	ATC Project #50481632, dated November 12, 2012

Analysis

The tower was analyzed using Power Line Systems, Inc's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	100 mph (3-Second Gust, V_{ASD}) / 128 mph (3-Second Gust, V_{ULT})
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 3/4" 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

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					
278.0	278.0	6	LGP LGP21903	Sector Frames	(12) 1 5/8" Coax (2) 0.39" Fiber Trunk (2) 0.76" 8 AWG 6 (2) 0.78" 8 AWG 6 (1) 3" conduit	AT&T Mobility
		3	Kaelus DBC0061F1V51-2			
		1	Raycap DC6-48-60-18-8F.			
		1	Raycap DC6-48-60-18-8F			
		6	Powerwave LGP17201			
		3	Ericsson RRUS 32			
		3	Ericsson RRUS 32 B2			
		3	Ericsson RRUS-11			
		3	Powerwave 7770.00			
		2	KMW AM-X-CD-16-65-00T-RET			
		2	Quintel QS66512-2			
		1	KMW AM-X-CD-17-65-00T-RET			
		1	Powerwave P65-17-XLH-RR			
1	CCI TPA-65R-LCUUUU-H8					
259.0	259.0	6	Swedcom ALP 9011-DIN	Sector Frames	(6) 1 5/8" Coax	Sprint Nextel
191.0	-	-	-	Empty Platform w/ Handrails	-	--
171.0	171.0	6	RFS FD9R6004/2C-3L	Sector Frames	(2) 1 5/8" Hybriflex	Verizon Wireless
		3	Nokia B5 RRH4x40-850			
		3	Alcatel-Lucent RRH2X60-AWS			
		3	Alcatel-Lucent RRH2X60-1900			
		2	Raycap RC3DC-3315-PF-48			
		6	Antel LPA-80080/6CF			
6	Commscope JAHH-65B-R3B					
145.0	145.0	6	TTA	Leg	(6) 1 5/8" Coax	Other
		3	36" x 6" Panel			

Equipment to be Removed

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
171.0	171.0	2	Raycap RC3DC-3315-PF-48	-	-	Verizon Wireless

Proposed Equipment

Elevation ¹ (ft)		Qty	Antenna	Mount Type	Lines	Carrier
Mount	RAD					
171.0	171.0	3	Alcatel-Lucent RRH2x60 700	Sector Frames	(10) 1 5/8" Coax	Verizon Wireless

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).

Double stack proposed coax alongside of the existing Verizon Wireless coax.

**Structure Usages**

Structural Component	Controlling Usage	Pass/Fail
Legs	84%	Pass
Diagonals	95%	Pass
Truss Diagonals	69%	Pass
Horizontals	50%	Pass
Truss Horizontals	70%	Pass

Foundations

Reaction Component	Analysis Reactions	% of Usage
Uplift (Kips)	215.3	95%
Axial (Kips)	367.8	51%

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.



Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.

All assets of American Tower Corporation, its affiliates and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

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 supplied herein.

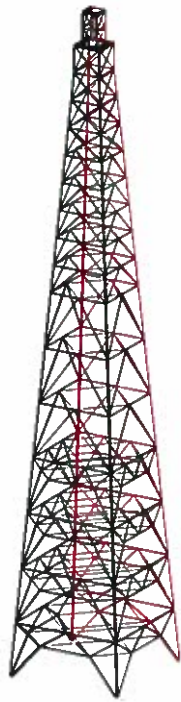


Table with 15 columns: ID, Description, Quantity, Unit Price, Total Price, etc. Lists various steel components and their costs.

Printed capacities do not include the strength factors entered for each load case. The Group Summary reports the member and load case that resulted in maximum usage which may not necessarily be the same as that which produces maximum force.

Group Summary (Compression Portion):

Main table for Group Summary (Compression Portion) with columns: Group Label, Group Desc, Group Angle, Group Type, Steel Size, Steel Strength, Max Usage, Max Comp. Use, etc.

Group Summary (Tension Portion):

Main table for Group Summary (Tension Portion) with columns: Group Label, Group Desc, Group Angle, Group Type, Steel Size, Steel Strength, Max Usage, Max Tension, etc.

Horiz 13	B/B L3*2.5"x0.25"	DAL	3X2.5X0.25	33.0	3.70	Tens	3.70	M 25P	2.890	M 0	70.111	0.000	0.000	0.000	16.242	0	0.000	0	
Horiz 14	B/B L3*2.5"x0.25"	DAL	3X2.5X0.25	33.0	2.95	Tens	2.95	M 27P	2.308	M 0	70.111	0.000	0.000	0.000	14.371	0	0.000	0	
Horiz 15	B/B L3*3"x0.3125"	DAL	3.5X3X0.31	33.0	0.93	Tens	0.93	M 30P	1.048	M 45	114.939	0.000	0.000	0.000	12.350	0	0.000	0	
Horiz 16	C18x33.9	CMW	C18x33.9	33.0	1.86	Tens	1.86	M 31P	5.813	M 0	285.812	0.000	0.000	0.000	32.800	0	0.000	0	
Horiz 17	B/B L2.5"x2.5"x0.25"	DAL	2.5X2X0.25	33.0	6.79	Comp	6.79	M 34X	0.000		43.261	0.000	0.000	0.000	7.000	0	0.000	0	
Horiz 18	B/B L2.5"x2.5"x0.25"	DAL	2.5X2X0.25	33.0	2.09	Comp	2.09	M 36X	0.000		43.261	0.000	0.000	0.000	7.000	0	0.000	0	
Horiz 19	C18x33.9	CMW	C18x33.9	33.0	0.19	Tens	0.19	M 37P	0.547	M 0	Ice	295.812	0.000	0.000	0.000	7.000	0	0.000	0
LD 1	B/B L3.5"x2.5"x0.25"	DAL	3.5X2.5X0.25	33.0	49.65	Comp	14.56	LD 2T	12.457	M -45	85.536	0.000	0.000	0.000	15.020	0	0.000	0	
LD 2	B/B L3.5"x3.5"x0.4375"	DAL	3.5X3.5X0.44	33.0	33.38	Comp	14.14	LD 3P	29.409	M -90	209.385	0.000	0.000	0.000	15.020	0	0.000	0	
LD 3	B/B L3*2.5"x0.25"	DAL	3X2X0.25	33.0	49.23	Comp	19.95	LD 8T	14.105	M -45	70.686	0.000	0.000	0.000	12.757	0	0.000	0	
LD 5	B/B L3*4.25"x0.25"	DAL	3X2.5X0.25	33.0	59.89	Comp	25.82	LD 9P	19.931	M -90	70.111	0.000	0.000	0.000	10.144	0	0.000	0	
LD 6	B/B L3*4.25"x0.25"	DAL	3X2.5X0.25	33.0	67.27	Comp	33.20	LD 11X	25.935	M -90	70.111	0.000	0.000	0.000	11.361	0	0.000	0	
LD 7	B/B L2.5"x2.5"x0.25"	DAL	2.5X2X0.25	33.0	42.17	Comp	21.85	LD 14T	11.421	M -45	62.261	0.000	0.000	0.000	12.141	0	0.000	0	
LD 8	B/B L3*4.25"x0.25"	DAL	3X2.5X0.25	33.0	57.24	Comp	25.94	LD 15P	20.128	M -90	70.111	0.000	0.000	0.000	9.916	0	0.000	0	
LD 9	B/B L3*4.25"x0.25"	DAL	3X2.5X0.25	33.0	62.01	Comp	32.56	LD 17X	25.433	M -90	70.111	0.000	0.000	0.000	10.948	0	0.000	0	
LD 10	B/B L2.5"x2.5"x0.25"	DAL	2.5X2X0.25	33.0	39.98	Comp	21.31	LD 20T	13.483	M -45	62.261	0.000	0.000	0.000	11.552	0	0.000	0	
LD 11	B/B L3*4.25"x0.25"	DAL	3X2.5X0.25	33.0	57.25	Comp	25.43	LD 21P	20.019	M -90	70.111	0.000	0.000	0.000	9.899	0	0.000	0	
LD 12	B/B L2.5"x3.5"x0.25"	DAL	3.5X3.5X0.25	33.0	46.17	Comp	25.04	LD 23X	25.139	M -90	100.386	0.000	0.000	0.000	10.556	0	0.000	0	
LH 1	B/B L3*3.5"x0.3"	DAS	3.5X3X0.3	33.0	24.32	Comp	5.73	LH 1Y	10.216	M 0	170.200	0.000	0.000	0.000	24.962	0	0.000	0	
LH 2	B/B L3*4.25"x0.25"	DAS	4X3X0.25	33.0	70.35	Comp	15.92	LH 4Y	15.981	M -45	100.386	0.000	0.000	0.000	13.452	0	0.000	0	
LH 3	B/B L3*4.25"x0.3125"	DAS	3.5X3X0.31	33.0	87.91	Comp	13.16	LH 6Y	15.129	M -45	114.939	0.000	0.000	0.000	12.412	0	0.000	0	
LH 4	B/B L3*4.25"x0.25"	DAS	3.5X3X0.25	33.0	40.10	Comp	15.20	LH 8Y	14.130	M -45	92.961	0.000	0.000	0.000	11.373	0	0.000	0	
DUM 1	Dummy Bracing Member	DUM	0.1X0.1X1	36.0	0.00	Comp	0.00	BR 11X	0.462	M -45	0.324	0.000	0.000	0.000	22.070	0	0.000	0	

*** Maximum Stress Summary for Each Load Case

Summary of Maximum Uses by Load Case:

Load Case	Max	Element Usage #	Element Label	Element Type
M 0	86.96	D 10P	Angle	
M 180	90.91	D 10Y	Angle	
M 45	83.52	L 2P	Angle	
M -45	82.41	L 2K	Angle	
M 90	82.74	D 9P	Angle	
M -90	94.68	D 9K	Angle	
M 0 Ice	36.04	L 1P	Angle	
M 180 Ice	36.04	L 1Y	Angle	
M 45 Ice	43.92	L 1P	Angle	
M -45 Ice	43.17	L 1X	Angle	
M 90 Ice	38.45	L 1P	Angle	
M -90 Ice	37.76	L 1X	Angle	

*** Weight of structure (lbs):
 Weight of Angles*Section CLF: 187722.3
 Total: 187722.3

*** End of Report

Site #	86013
Site Name	Killington, CT

Engineer	ATB
Date	01/03/18

Wind Speed	No Ice	100 mph	Ice	50 mph
Carrier	Verizon Wireless			
Z. Coord.	(ft)	Y Coord.	(ft)	X Coord.
Z Coord.	26.8335	Y Coord.	26.8335	X Coord.

Taper Change	275 ft
FW @ Top	12.5 ft

Taper	-0.149698
FW @ Base	53.667 ft

Joint Label	Symmetry Code	X Coord. (ft)	Y Coord. (ft)	Z Coord. (ft)	X Disp. Rest.	Y Disp. Rest.	Z Disp. Rest.	X Rot. Rest.	Y Rot. Rest.	Z Rot. Rest.	Drop Sub-Brace (' or Blank)	# Vert	Drop (ft)	Height (ft)	Type	Count	Z-Elev. (ft)	FW (ft)	# Sub-Brace	11/12/2014
0	X1-Symmetry	24.96227273	24.96227273	0	Free	Free	Free	Free	Free	Free		3	8.333	25	1	1	0	53.667	2	
1	X1-Symmetry	23.09104545	23.09104546	25	Free	Free	Free	Free	Free	Free	Free	1	8.333	25	2	2	25	49.92454545	2	
2	X1-Symmetry	21.21981818	21.21981818	50	Free	Free	Free	Free	Free	Free	Y	1	8.333	25	3	3	50	46.18209091	5	
3	X1-Symmetry	19.34859091	19.34859091	75	Free	Free	Free	Free	Free	Free	Y	1	8.333	25	4	4	75	42.43963636	4	
4	X1-Symmetry	17.47736364	17.47736364	100	Free	Free	Free	Free	Free	Free		2		25	5	5	100	38.69718182	2	
5	X1-Symmetry	15.60613637	15.60613637	125	Free	Free	Free	Free	Free	Free		2		25	6	6	125	34.95472727	2	
6	X1-Symmetry	13.73490909	13.73490909	150	Free	Free	Free	Free	Free	Free		2		25	7	7	150	31.21222727	2	
7	X1-Symmetry	11.86368182	11.86368182	175	Free	Free	Free	Free	Free	Free		2		12.5	8	8	175	27.46981818	1	
8	X1-Symmetry	10.99280618	10.99280618	200	Free	Free	Free	Free	Free	Free		1		12.5	9	9	200	23.72796364	1	
9	X1-Symmetry	9.99245455	9.99245455	212.5	Free	Free	Free	Free	Free	Free		1		12.5	10	10	212.5	21.85613636	1	
10	X1-Symmetry	9.05684091	9.05684091	237.5	Free	Free	Free	Free	Free	Free		1		12.5	11	11	237.5	19.98490909	1	
11	X1-Symmetry	8.12122727	8.12122727	250	Free	Free	Free	Free	Free	Free		1		12.5	12	12	250	18.13681818	1	
12	X1-Symmetry	7.18561363	7.18561363	262.5	Free	Free	Free	Free	Free	Free		1		12.5	13	13	262.5	16.24245455	1	
13	X1-Symmetry	6.25	6.25	275	Free	Free	Free	Free	Free	Free		1		12.5	14	14	275	14.37122727	1	
14	X1-Symmetry	6.25	6.25	287.5	Free	Free	Free	Free	Free	Free		1		12.5	15	15	287.5	12.5	1	
15	X1-Symmetry	3.5	3.5	287.5	Free	Free	Free	Free	Free	Free				0.1	16	16	287.5	12.5	1	
16	X1-Symmetry	3.5	3.5	295.1	Free	Free	Free	Free	Free	Free				7.5	17	17	295.1	12.5	7	
17	X1-Symmetry	3.5	3.5	302.6	Free	Free	Free	Free	Free	Free				7.5	18	18	302.6	12.5	7	
18	X1-Symmetry	0	0	302.6	Free	Free	Free	Free	Free	Free				7.5	19	19	302.6		7	
19	X1-Symmetry	0	0	25	Free	Free	Free	Free	Free	Free					20	20				
20	X1-Symmetry	24.96227273	24.96227273	25	Free	Free	Free	Free	Free	Free										
21	X1-Symmetry	23.09104545	23.09104546	50	Free	Free	Free	Free	Free	Free										
22	X1-Symmetry	21.21981818	21.21981818	75	Free	Free	Free	Free	Free	Free										
23	X1-Symmetry	19.34859091	19.34859091	100	Free	Free	Free	Free	Free	Free										
24	X1-Symmetry	17.47736364	17.47736364	125	Free	Free	Free	Free	Free	Free										
25	X1-Symmetry	15.60613637	15.60613637	150	Free	Free	Free	Free	Free	Free										
26	X1-Symmetry	13.73490909	13.73490909	175	Free	Free	Free	Free	Free	Free										
27	X1-Symmetry	11.86368182	11.86368182	200	Free	Free	Free	Free	Free	Free										
28	X1-Symmetry	10.99280618	10.99280618	212.5	Free	Free	Free	Free	Free	Free										
29	X1-Symmetry	9.99245455	9.99245455	225	Free	Free	Free	Free	Free	Free										
30	X1-Symmetry	9.05684091	9.05684091	237.5	Free	Free	Free	Free	Free	Free										
31	X1-Symmetry	8.12122727	8.12122727	250	Free	Free	Free	Free	Free	Free										
32	X1-Symmetry	7.18561363	7.18561363	262.5	Free	Free	Free	Free	Free	Free										
33	X1-Symmetry	6.25	6.25	275	Free	Free	Free	Free	Free	Free										
34	X1-Symmetry	6.25	6.25	287.5	Free	Free	Free	Free	Free	Free										
35	X1-Symmetry	3.5	3.5	287.5	Free	Free	Free	Free	Free	Free										
36	X1-Symmetry	3.5	3.5	295.1	Free	Free	Free	Free	Free	Free										
37	X1-Symmetry	3.5	3.5	302.6	Free	Free	Free	Free	Free	Free										

Notes:
 1: Built up Horiz. w/ A
 2: Built up Horiz. w/ M
 A: Typical A brace
 X: Typical X brace
 Drop: Use only for types 1 & 2

# Sections	19
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Legs

Site No.:	88013
Engineer:	ATB
Date:	01/03/2018
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter or Length (in)	Thickness ^[2] (in)	F _y (ksi)
1	0.000-25.00	L	8	1.125	33
2	25.00-50.00	L	8	1.125	33
3	50.00-75.00	L	8	1.125	33
4	75.00-100.0	L	8	1.125	33
5	100.0-125.0	L	8	1.125	33
6	125.0-150.0	L	8	1	33
7	150.0-175.0	L	8	0.875	33
8	175.0-187.5	L	8	0.75	33
9	187.5-200.0	L	6	0.875	33
10	200.0-212.5	L	6	0.875	33
11	212.5-225.0	L	6	0.75	33
12	225.0-237.5	L	6	0.75	33
13	237.5-250.0	L	6	0.625	33
14	250.0-262.5	L	6	0.625	33
15	262.5-275.0	L	6	0.5625	33
16	275.0-287.5	L	6	0.5625	33
17	287.5-287.6	L	6	0.5625	33
18	287.6-295.1	L	6	0.5	33
19	295.1-302.6	L	6	0.5	33

Notes:

^[1] Type of Leg Shape: R = Round or P = Bent Plate or S = Schifflerized Angle. L = Even Leg

^[2] For Solid Round Leg Shapes Thickness Equals Zero.

^[3] Adjust for Bent Plate Leg Shapes.

Diagonals

Site No.:	88013
Engineer:	ATB
Date:	01/03/2018
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Diag. Tension Only? (Y/N)
1	0.000-25.00	2L		3.5	5	0.4375	33	
2	25.00-50.00	2L		3	4	0.3125	33	
3	50.00-75.00	2L		3	4	0.3125	33	
4	75.00-100.0	2L		3	4	0.3125	33	
5	100.0-125.0	2L		3	4	0.25	33	
6	125.0-150.0	2L		3	4	0.25	33	
7	150.0-175.0	2L		3	4	0.25	33	
8	175.0-187.5	2L		2.5	3	0.3125	33	
9	187.5-200.0	2L		2.5	2.5	0.25	33	
10	200.0-212.5	2L		2.5	2.5	0.25	33	
11	212.5-225.0	2L		2.5	2.5	0.25	33	
12	225.0-237.5	2L		2.5	2.5	0.25	33	
13	237.5-250.0	L		3	4	0.25	33	Y
14	250.0-262.5	L		3	4	0.25	33	Y
15	262.5-275.0	L		3	3.5	0.25	33	Y
16	275.0-287.5	L		3.5	3.5	0.25	33	Y
17	287.5-287.6	L		3.5	3.5	0.25	33	Y
18	287.6-295.1	L		3	2	0.25	33	Y
19	295.1-302.6	L		3	2	0.25	33	Y

Notes:

^[1] Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Horizontals

Site No.:	88013
Engineer:	ATB
Date:	01/03/2018
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	
1	0.000-25.00	2L		4	3.5	0.375	33	
2	25.00-50.00	2L		4	3	0.375	33	
3	50.00-75.00	2L		4	3	0.3125	33	
4	75.00-100.0	2L		3.5	3	0.3125	33	
5	100.0-125.0	2L		3.5	3	0.25	33	
6	125.0-150.0	2L		3.5	2.5	0.25	33	
7	150.0-175.0	2L		3	2.5	0.25	33	
8	175.0-187.5	2L		3.5	2.5	0.3125	33	
9	187.5-200.0	2L		2.5	2.5	0.25	33	
10	200.0-212.5	2L		2.5	2.5	0.25	33	
11	212.5-225.0	2L		2.5	2.5	0.25	33	
12	225.0-237.5	2L		3	2.5	0.25	33	
13	237.5-250.0	2L		3	2.5	0.25	33	
14	250.0-262.5	2L		3	2.5	0.25	33	
15	262.5-275.0	2L		3.5	3	0.3125	33	
16	275.0-287.5	C		15	33.9		33	
17	287.5-287.6	2L		2.5	2	0.25	33	
18	287.6-295.1	2L		2.5	2	0.25	33	
19	295.1-302.6	C		15	33.9		33	

Notes:

^[1] Type of Horizontal Shape: R = Round, L = Single-Angle, 2L = Double-Angle, C = Channel, W = W Shape

^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.

^[3] Applies to Single-Angle and Double-Angle Shapes only.

^[4] Applies to Double-Angle Shapes only.

^[5] Applies to Single-Angle Shapes only.

Built-up Diagonals

Site No.:	88013
Engineer:	ATB
Date:	01/03/2018
Carrier:	Verizon Wireless

**When inputting thickness values, include all decimal places.
Input diags. from left to center & from base section upward.**

Tower Built-up Diag. #	Section Elevations (ft)	Type of Shape ⁽¹⁾	Diameter ⁽²⁾ (in)	Web Length ⁽³⁾ (in)	Flange Length ⁽³⁾ (in)	Thickness (in)	F _y (ksi)
1	0.000-25.00	2L		3.5	2.5	0.25	33
2	0.000-25.00	2L		5	3.5	0.4375	33
3	25.00-50.00	2L		3	2	0.25	33
4	25.00-50.00	2L		3	2.5	0.25	33
5	25.00-50.00	2L		3	2.5	0.25	33
6	50.00-75.00	2L		2.5	2	0.25	33
7	50.00-75.00	2L		3	2.5	0.25	33
8	50.00-75.00	2L		3	2.5	0.25	33
9	75.00-100.0	2L		2.5	2	0.25	33
10	75.00-100.0	2L		3	2.5	0.25	33
11	75.00-100.0	2L		3.5	3.5	0.25	33

Notes:

- ⁽¹⁾ Type of Diagonal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.
- ⁽²⁾ Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ⁽³⁾ Applies to Single-Angle and Double-Angle Shapes only.
- ⁽⁴⁾ Applies to Double-Angle Shapes only.
- ⁽⁵⁾ Applies to Single-Angle Shapes only.

Built-up Horizontals

Site No.:	88013
Engineer:	ATB
Date:	01/03/2018
Carrier:	Verizon Wireless

When inputting thickness values, include all decimal places.

Tower Section #	Section Elevations (ft)	Type of Shape ^[1]	Diameter ^[2] (in)	Web Length ^[3] (in)	Flange Length ^[3] (in)	Thickness (in)	F _y (ksi)	Is Horiz. Tension Only? (Y/N)
1	0.000-25.00	2L		3	3.5	0.5	33	
2	25.00-50.00	2L		3	4	0.25	33	Y
3	50.00-75.00	2L		3	3.5	0.3125	33	Y
4	75.00-100.0	2L		3	3.5	0.25	33	Y

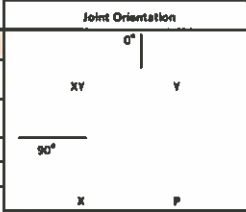
Notes:

- ^[1] Type of Horizontal Shape: R = Round, L = Single-Angle or 2L = Double-Angle.
- ^[2] Applies to Pipes and Solid Round Shapes only. For Solid Round Shapes Thickness Equals Zero.
- ^[3] Applies to Single-Angle and Double-Angle Shapes only.
- ^[4] Applies to Double-Angle Shapes only.
- ^[5] Applies to Single-Angle Shapes only.

Coax and Dishes (p. 1 of 2)

Orig by MED, improved by ABL Last update 6/25/13 MED

Site No.:	88013
Engineer:	ATB
Date:	01/03/18
Carrier:	Verizon Wireless

Dish Types		Joint Orientation 
S	Standard	
R	Standard w/ Radome	
H	High Performance	
G	Grid	

Dish Elevation (ft)	Dish Dia. (ft)	Dish Angle (deg)	Dish Type	Joint Orientation

Equipment Label	Attach Label	Equipment Property Set	EIA Antenna Orientation Angle

Description	From (ft)	To (ft)	Quantity	Shape	Width or Diameter (in)	Perimeter (in)	Unit Weight (lb/ft)	Part of Face Solidity Ratio (Yes/No)	Include in Wind Load (Yes/No)
LADDER	0	302	1	Flat	1.5	6.0	6	Yes	Yes
COAX CAGE1	8.3333	33.3333	1	Round	12	48.0	25	Yes	Yes
COAX CAGE2	8.3333	33.3333	1	Round	12	37.7	25	Yes	Yes
COAX CAGE3	8.3333	33.3333	1	Round	12	120.0	100	Yes	Yes
WG-1	15	275	1	Flat	1.5	6.0	6	No	No
AT&T-1	15	272	2	Round	0.39	1.2	0.07	Yes	Yes
AT&T-2	15	272	2	Round	0.76	2.4	0.53	Yes	Yes
AT&T-3	15	272	1	Flat	6.91	31.7	9.84	Yes	Yes
Sprint	17.5	255	1	Flat	4.433	19.8	4.92	No	No
WG-2	17.5	250	1	Flat	1.5	6.0	6	No	No
Verizon	15	268	1	Round	1.98	11.9	2.06	No	No
WG-3	15	168	1	Flat	1.5	6.0	6	No	No
Other	15	145	1	Flat	2.97	19.8	4.92	No	No
AT&T-4	15	272	2	Round	0.78	2.5	0.53	No	No
AT&T-5	15	272	1	Round	3.5	11.0	7.58	No	No
Verizon3	15	171	1	Flat	2.97	27.7	8.2	Yes	Yes

Foundation

Design Loads (Factored)

Compression/Leg:	367.78	k
Uplift/Leg:	215.28	k
Shear/Leg:	64.95	k

Face Width @ Top of Pier (d_1):	4.00	ft
Face Width @ Bottom of Pier (d_2):	7.00	ft
Total Length of Pier (l):	9.00	ft
Height of Pedestal Above Ground (h):	0.67	ft
Width of Pad (W):	11.00	ft
Length of Pad (L):	11.00	ft
Thickness of Pad (t):	2.00	ft
Water Table Depth (w):	30.00	ft
Unit Weight of Concrete:	150.0	pcf
Unit Weight of Soil (Above Water Table):	122.6	pcf
Unit Weight of Soil (Below Water Table):	55.0	pcf
Friction Angle of Uplift (A):	30	°
Ultimate Compressive Bearing Pressure:	8000	psf

Volume Pier (Total):	279.00	ft ³
Volume Pad (Total):	242.00	ft ³
Volume Soil (Total):	1823.38	ft ³
Volume Pier (Buoyant):	0.00	ft ³
Volume Pad (Buoyant):	0.00	ft ³
Volume Soil (Buoyant):	0.00	ft ³
Weight Pier:	41.85	k
Weight Pad:	36.30	k
Weight Soil:	223.55	k

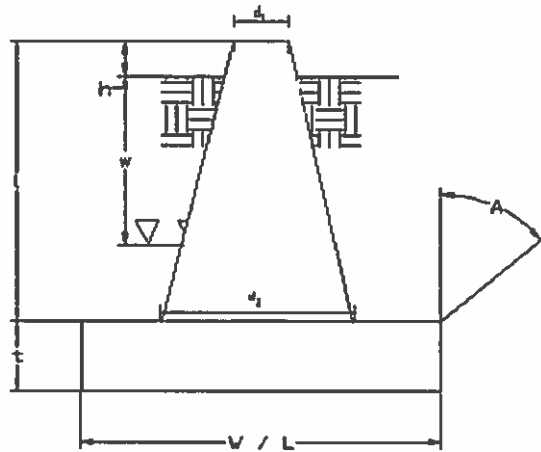
Uplift Check

ϕ s Uplift Resistance (k)	Ratio	Result
226.27	0.95	OK

Axial Check

ϕ s Axial Resistance (k)	Ratio	Result
726.00	0.51	OK

Site No.:	88013
Engineer:	ATB
Date:	01/03/18
Carrier:	Verizon Wireless



Site Name: Little City CT

Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
VZW PCS	1970	1	6225	6225	175	0.0731	1.0	7.31%
VZW 850 CDMA	869	9	503	4527	175	0.0532	0.5793333333	9.18%
VZW 850 LTE	869	1	3056	3056	175	0.0359	0.5793333333	6.19%
VZW AWS	2145	1	7257	7257	175	0.0852	1.0	8.52%
VZW 700	746	1	2644	2644	175	0.0310	0.4973333333	6.24%

Total Percentage of Maximum Permissible Exposure 37.44%

*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.

The Assessor's office is responsible for the maintenance of records on the ownership of properties.

Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2016.



Information on the Property Records for the Municipality of Killingworth was last updated on 12/2/2017.

Parcel Information

Location:	133 LITTLE CITY ROAD	Property Use:	Industrial	Primary Use:	Utility Building
Unique ID:	00042100	Map Block Lot:	06-11A	Acres:	4.00
490 Acres:	0.00	Zone:	R-2	Volume / Page:	0159/0722
Developers Map / Lot:		Census:	6401		

Value Information

	Appraised Value	70% Assessed Value
Land	479,400	335,580
Buildings	99,711	69,800
Detached Outbuildings	227,557	159,290
Total	806,668	564,670

Owner's Information

Owner's Data
AMERICAN TOWERS INC AMERICAN TOWERS CORPORATION PO BOX 723597 SITE 88013 ATLANTA, GA 31139

Building 1



Category:	Industrial	Use:	Utility Building	GLA:	1,750
Stories:	1.00	Construction:	Good	Year Built:	1960
Heating:		Fuel:		Cooling Percent:	100%
Siding:	Pre-Cast Concrete	Roof Material:		Beds/Units:	0

Special Features

Attached Components

Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Fencing	1960	270	6	1,620
Paving	1960			2,000
Masonry Shed	1960	12	30	360
Radio Tower	1960			1

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Valid Sale	Sale Price
AMERICAN TOWERS INC	0159	0722	02/16/2000	Warranty Deed	Yes	\$243,058

Building Permits

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
13-169	Electrical	07/17/2013		Closed	STANDBY GENERATOR FOR CELL TOWER
13-086	Renovation	05/07/2013		Closed	CELL TOWER MODIFICATIONS
13-076	Renovation	04/11/2013		Closed	CELL TOWER MODIFICATIONS

Permit Number	Permit Type	Date Opened	Date Closed	Permit Status	Reason
12-117	Building	04/27/2012		Closed	REPLACE ALL 12 EXISTING ANTENNAS ON TOWER, REMOVE HORNS & REINSFORCE TOWER FOUNDATION



(131-133) Little City Rd,

12/8/2017 8:31:22 AM

Scale: 1"=250'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.





VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: KILLINGWORTH
 ATC SITE NUMBER: 88013
 VERIZON SITE NAME: LITTLE CITY CT
 SITE ADDRESS: LITTLE CITY ROAD
 KILLINGWORTH, CT 06419



LOCATION MAP

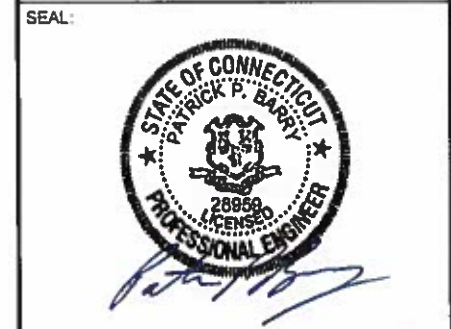
AMERICAN TOWER®
ATC TOWER SERVICES
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 6260F

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. CONTRACTOR(S) 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	SF	09/27/17
1	EQUIPMENT REVISIONS	SF	12/05/17

ATC SITE NUMBER:
88013
 ATC SITE NAME:
KILLINGWORTH

SITE ADDRESS:
 LITTLE CITY ROAD
 KILLINGWORTH, CT 06419



Dec 5 2017 1:23 PM cosign



DRAWN BY:	SF
APPROVED BY:	KRF
DATE DRAWN:	09/27/17
ATC JOB NO:	12142566
CUSTOMER NO:	---

COVER SHEET

SHEET NUMBER: **C-101** REVISION: **1**

**VERIZON WIRELESS
 ANTENNA AMENDMENT DRAWINGS**

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX					
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. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> LITTLE CITY ROAD KILLINGWORTH, CT 06419 COUNTY: HAMPSHIREMIDDLESEX <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.42877 LONGITUDE: -72.60380 GROUND ELEVATION: 615' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: REMOVE (6) PANELS INSTALL (6) NEW PANELS, (12) RRU's, (2) BOB/SB AND (2) HYBRID CABLES EXISTING (6) PANELS TO REMAIN PROJECT NOTES 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	<u>UTILITY COMPANIES</u> POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> AMERICAN TOWER 116 HUNTINGTON AVE BOSTON, MA 02116	<u>PROJECT LOCATION DIRECTIONS</u> FROM HARTFORD, CT: I-91 SOUTH TO 9 SOUTH TO EXIT 11 (ROUTE 148). FOLLOW ROUTE 148 UNTIL 2.3 MILES AFTER JUNCTION 79 TO LITTLE CITY ROAD. NOTE THE SIGN FOR LITTLE CITY ROAD IS NOT A NORMAL STREET SIGN, BUT A WOODEN ENGRAVED POLE. TURN LEFT ON LITTLE CITY AND FOLLOW 1.2 MILES.	G-001	COVER SHEET	1	12/05/17	SF
	<u>UTILITY COMPANIES</u> POWER COMPANY: EVERSOURCE PHONE: (877) 659-6326 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843	<u>PROJECT TEAM</u> <u>APPLICANT:</u> VERIZON WIRELESS 99 EAST RIVER DRIVE, 9TH FLOOR EAST HARTFORD, CT 06108		G-002	GENERAL NOTES	0	09/27/17	SF
			C-101	DETAILED SITE PLAN AND TOWER ELEVATION	1	12/05/17	SF	
			C-501	ANTENNA INFORMATION & SCHEDULE	1	12/05/17	SF	
			C-502	CONSTRUCTION DETAILS	1	12/05/17	SF	



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GENERAL CONSTRUCTION NOTES:

1. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/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 T-MOBILE WIRELESS REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE WIRELESS REP PRIOR TO PROCEEDING.
11. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE 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 T-MOBILE WIRELESS REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
21. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE WIRELESS SPECIFICATIONS AND REQUIREMENTS.
22. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE WIRELESS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
23. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE 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 T-MOBILE 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 T-MOBILE WIRELESS REP. ANY WORK FOUND BY THE T-MOBILE 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 1/4" 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.
 - H.



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

ATC SITE NUMBER:
88013
 ATC SITE NAME:
KILLINGWORTH
 SITE ADDRESS:
 LITTLE CITY ROAD
 KILLINGWORTH, CT 06419

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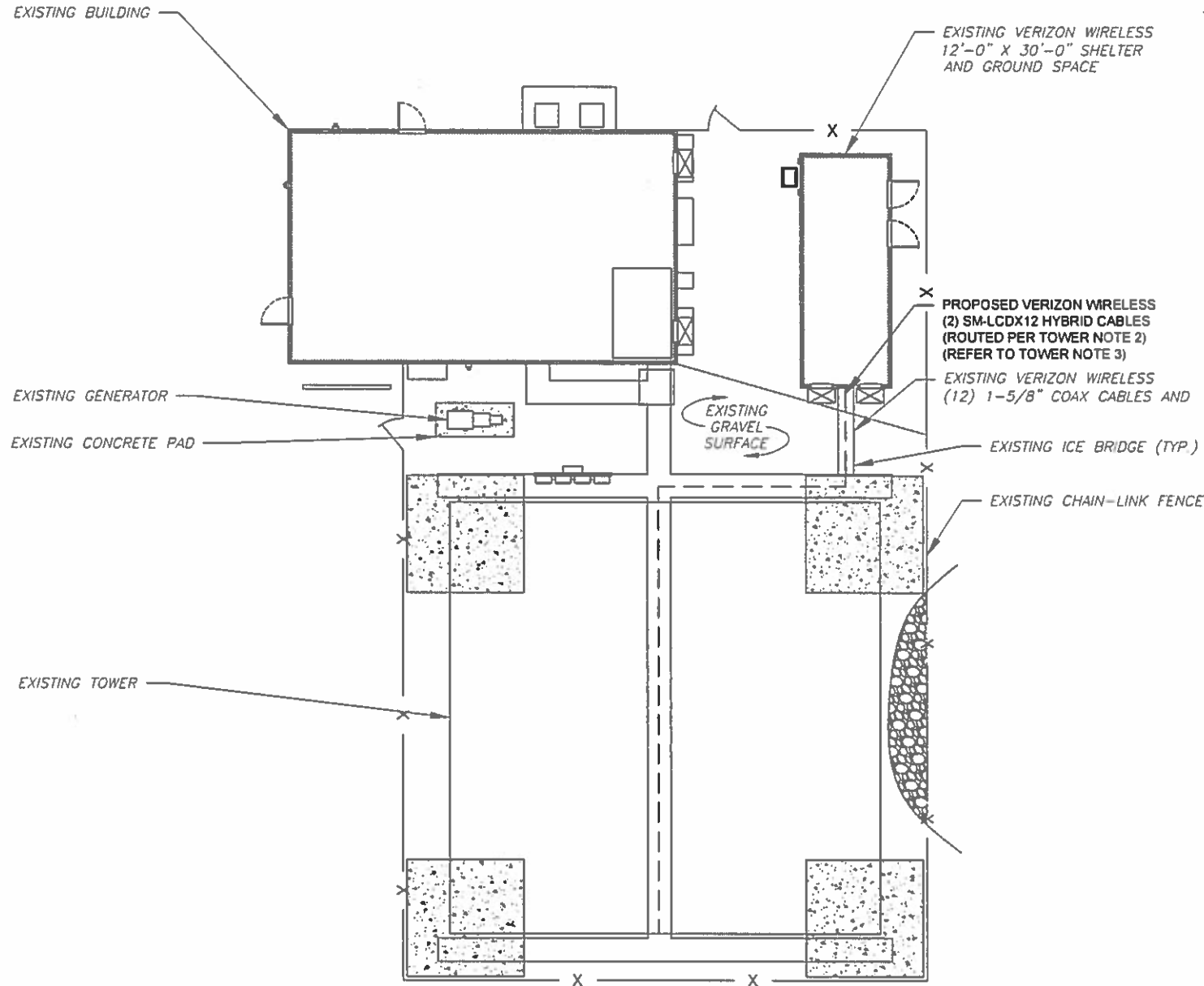
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APPROVED BY:	KRF
DATE DRAWN:	09/27/17
ATC JOB NO:	12142568
CUSTOMER NO:	---

GENERAL NOTES

SHEET NUMBER:	REVISION:
C-101	0

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.



1 DETAILED SITE PLAN



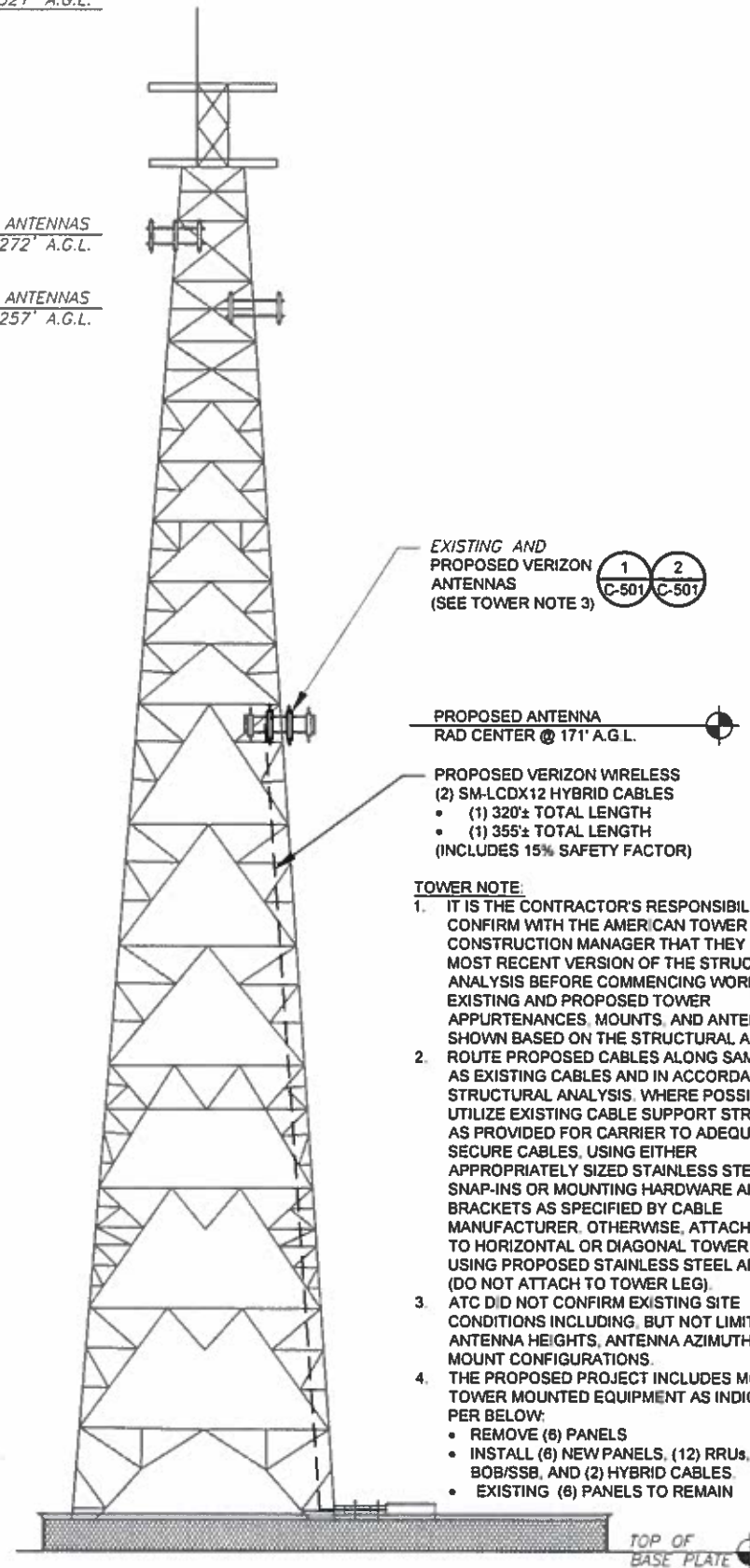
SCALE: 1"=20' (11X17)
1"=10' (22X34)



TOP OF EXISTING HIGHEST APPURTENANCE ELEV. 321' A.G.L.

EXISTING CARRIER ANTENNAS RAD CENTER @ 272' A.G.L.

EXISTING CARRIER ANTENNAS RAD CENTER @ 257' A.G.L.



2 TOWER ELEVATION
SCALE: NOT TO SCALE

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. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
3. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATIONS.
4. THE PROPOSED PROJECT INCLUDES MODIFYING TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:
 - REMOVE (6) PANELS
 - INSTALL (6) NEW PANELS, (12) RRU's, (2) BOB/SSB, AND (2) HYBRID CABLES.
 - EXISTING (6) PANELS TO REMAIN

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ATC SITE NUMBER:
88013

ATC SITE NAME:
KILLINGWORTH

SITE ADDRESS:
LITTLE CITY ROAD
KILLINGWORTH, CT 06419

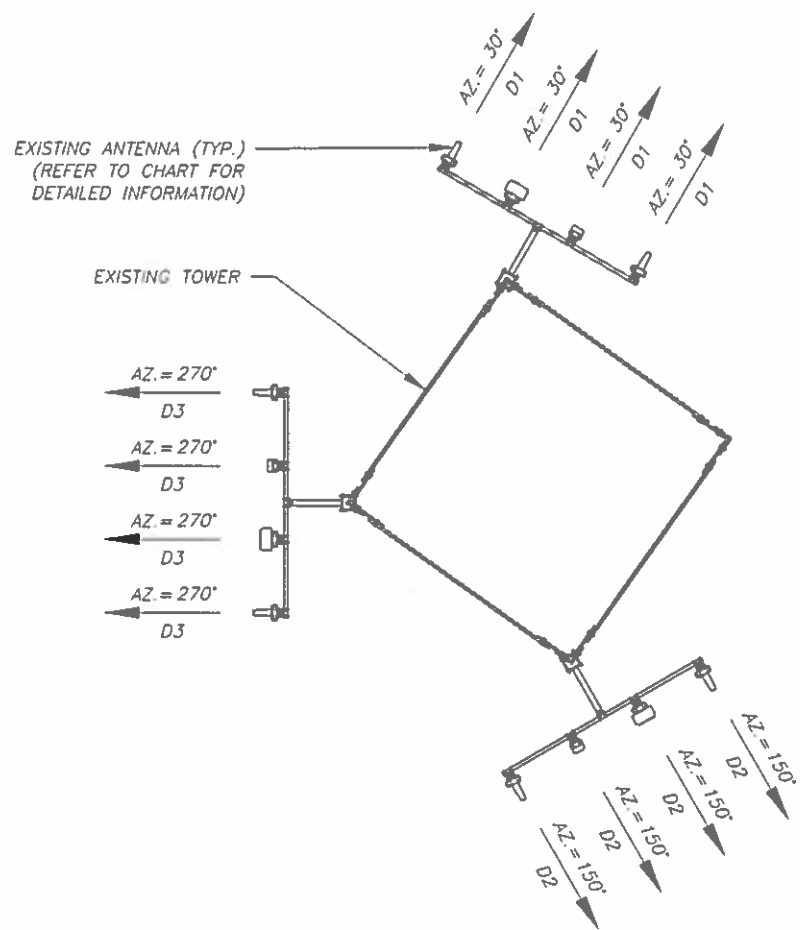
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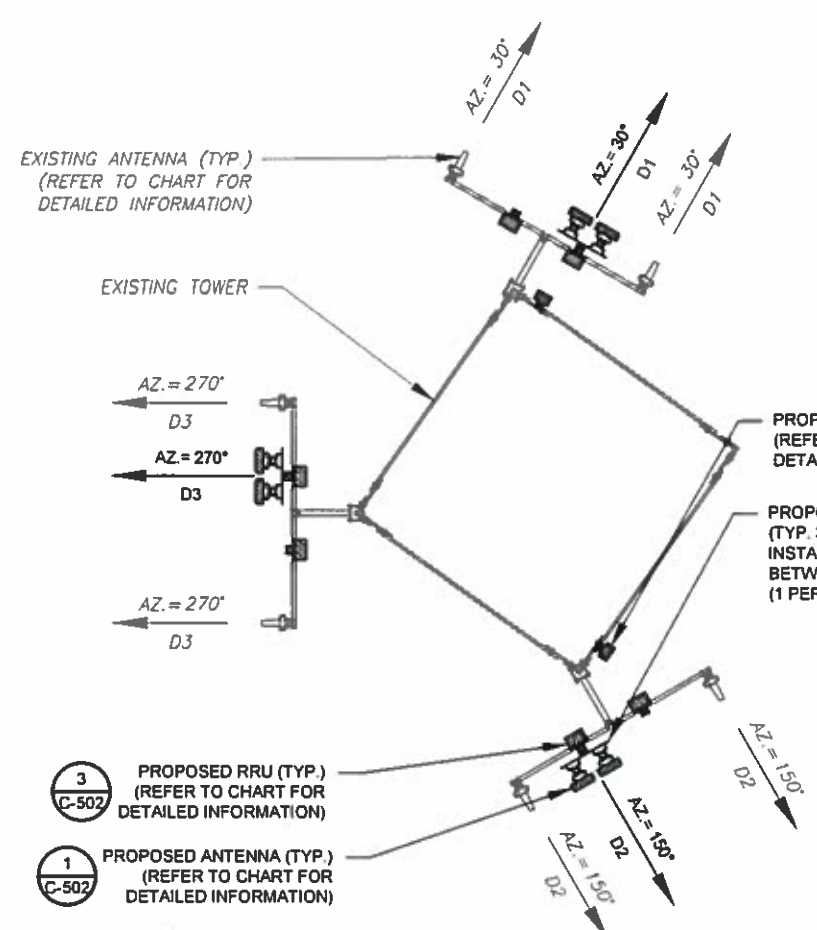
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APPROVED BY:	KRF
DATE DRAWN:	09/27/17
ATC JOB NO:	12142566
CUSTOMER NO:	---

DETAILED SITE PLAN AND TOWER ELEVATION	
SHEET NUMBER: C-101	REVISION: 1



1 EXISTING ANTENNA PLAN



2 FINAL 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	171'	30°	1	850	LPA-80080/6CF	RMN	1	-	-
			2	700	BXA-70063-6CF	REM	2	-	-
			3	1900/2100	BXA-171085-8BF	REM	3	-	-
			4	850	LPA-80080/6CF	RMN	4	-	-
D2	171'	150°	1	850	LPA-80080/6CF	RMN	1	-	-
			2	700	BXA-70063-6CF	REM	2	-	-
			3	1900/2100	BXA-171085-8BF	REM	3	-	-
			4	850	LPA-80080/6CF	RMN	4	-	-
D3	171'	270°	1	850	LPA-80080/6CF	RMN	1	-	-
			2	700	BXA-70063-6CF	REM	2	-	-
			3	1900/2100	BXA-171085-8BF	REM	3	-	-
			4	850	LPA-80080/6CF	RMN	4	-	-

CURRENT FIBER DISTRIBUTION / OVP BOX					CURRENT CABLING SUMMARY		
LOCATION	POS	BAND	MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	-	-	-	(12) 1-5/8"	-	RMN

- BASED ON APPROVED ATC APPLICATION OAA709624, DATED 08-11-17. 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).

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	171'	30°	1	850	LPA-80080/6CF	RMN	1	-	-
			2	-	-	-	2	(1) RRH 2X60 700, (1) RRH 2X90 AWS	ADD
			3	700/850/1900 LTE	JAHH-65B-R3B/AWS JAHH-65B-R3B/PCS	ADD	3	(1) RRH 2X60 PCS, (1) RRH 4X40 850	ADD
			4	850	LPA-80080/6CF	RMN	4	-	-
D2	171'	150°	1	850	LPA-80080/6CF	RMN	1	-	-
			2	-	-	-	2	(1) RRH 2X60 700, (1) RRH 2X90 AWS	ADD
			3	700/850/1900 LTE	JAHH-65B-R3B/AWS JAHH-65B-R3B/PCS	ADD	3	(1) RRH 2X60 PCS, (1) RRH 4X40 850	ADD
			4	850	LPA-80080/6CF	RMN	4	-	-
D3	171'	270°	1	850	LPA-80080/6CF	RMN	1	-	-
			2	-	-	-	2	(1) RRH 2X60 700, (1) RRH 2X90 AWS	ADD
			3	700/850/1900 LTE	JAHH-65B-R3B/AWS JAHH-65B-R3B/PCS	ADD	3	(1) RRH 2X60 PCS, (1) RRH 4X40 850	ADD
			4	850	LPA-80080/6CF	RMN	4	-	-

PROPOSED FIBER DISTRIBUTION / OVP BOX					PROPOSED CABLING SUMMARY		
LOCATION	POS	BAND	MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
D1 & D3	-	-	RC3DC-3315-48	ADD	-	(2) SM-LCDX12	ADD
-	-	-	-	-	(12) 1-5/8"	-	RMN

3 ANTENNA AND RF EQUIPMENT SCHEDULES

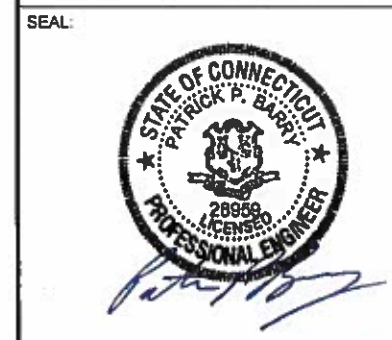
STATUS ABBREVIATIONS
 RMV: TO BE REMOVED DSC: TO BE DISCONNECTED
 RMN: TO REMAIN AND TO REMAIN
 REL: TO BE RELOCATED

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 SITE ADDRESS:
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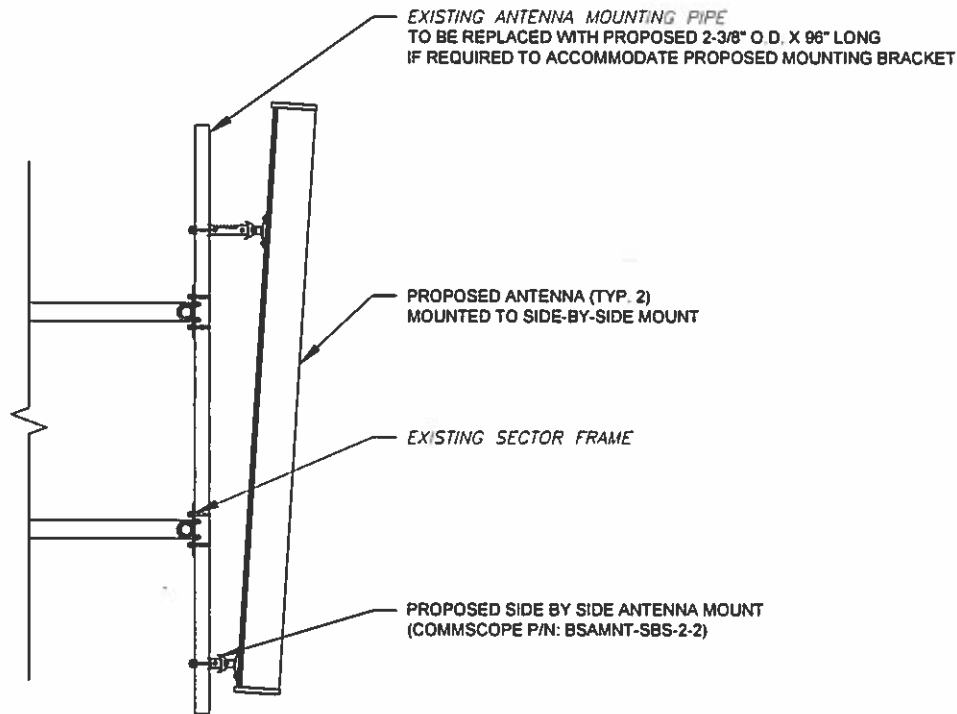


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ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER: **C-101** REVISION: **1**

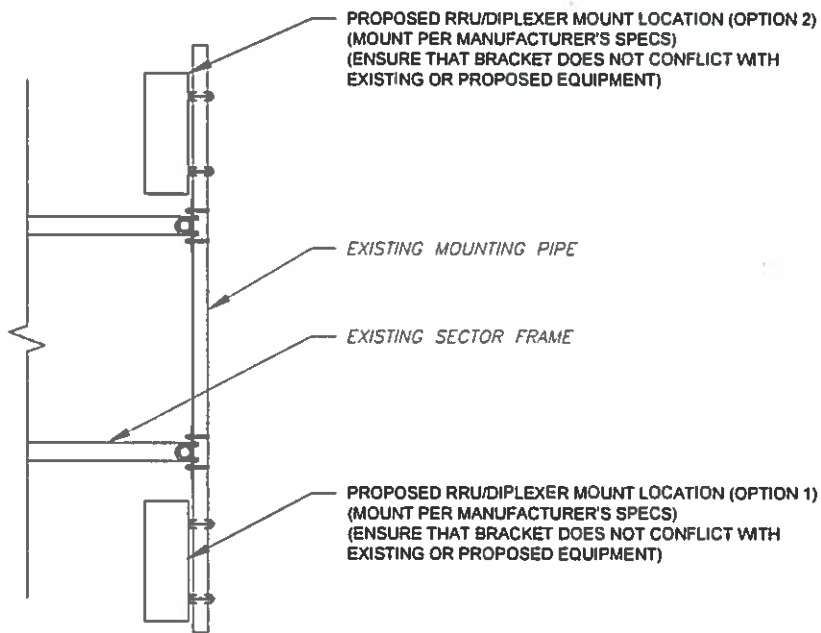
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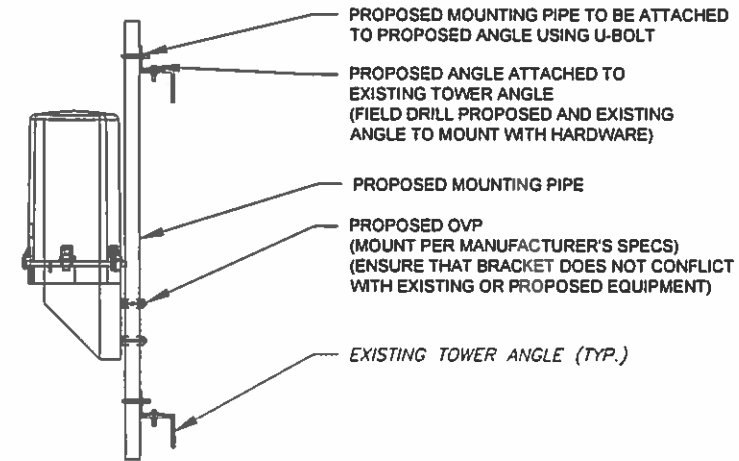
PROFILE VIEW

1 PROPOSED SIDE-BY-SIDE MOUNT

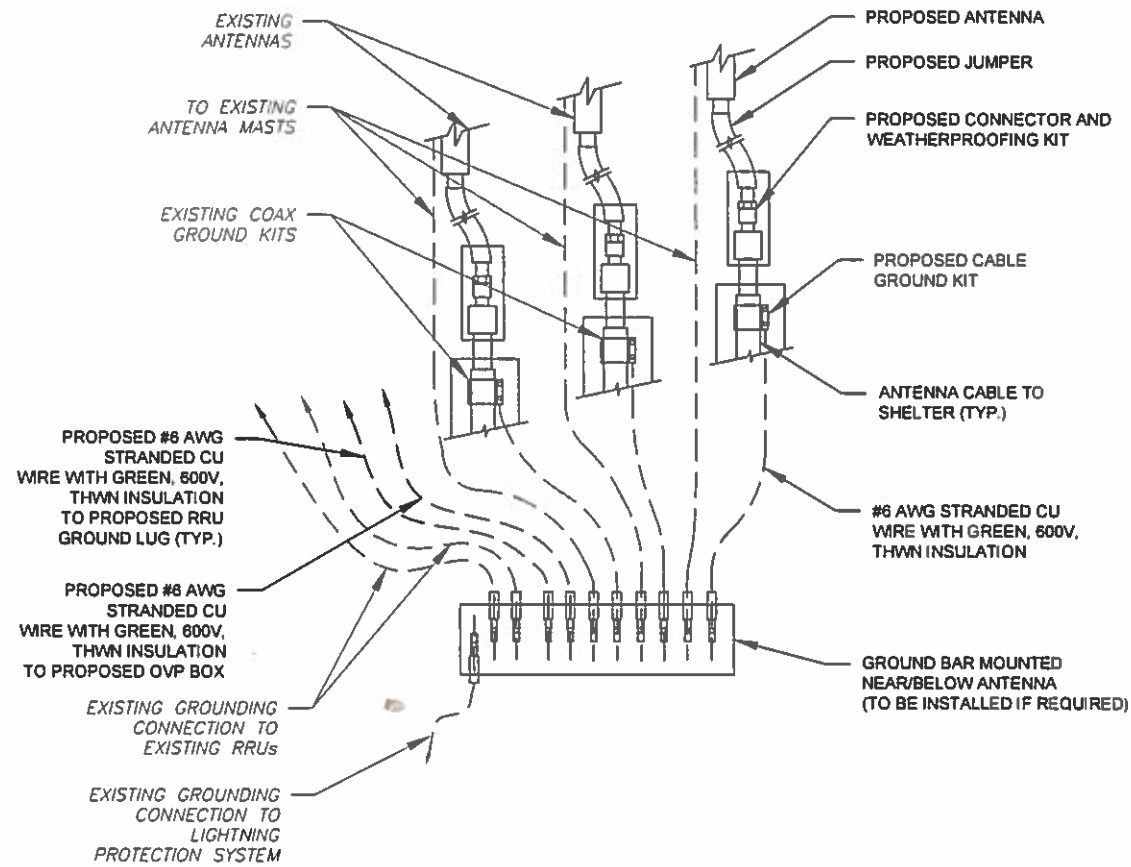
ISOMETRIC VIEW (BY MANUFACTURER)



3 PROPOSED RRU/DIPLEXER MOUNTING DETAIL - TYPICAL



2 PROPOSED OVP MOUNTING



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.

4 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE

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CONSTRUCTION
 DETAILS

SHEET NUMBER:	REVISION:
C-101	1